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दिल्ली दर अनुसूची (भाग - 2)

DELHI SCHEDULE OF RATES

(Vol. 2)

2016



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DIVAKAR GARG Director General



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FOREWORD

Delhi Schedule of Rates, being published by Central Public Works Department from time to time, is a very comprehensive technical document and useful in execution of civil construction works. Apart from C.P.W.D., this Schedule of Rates is used as a guide by many departments, institutions, public sector undertakings, architects, builders, contractors, etc.

The Central Public Works Department Schedule of Rates was first published in the year 1931, followed by a number of revisions/publications from time to time in order to bring it in line with the prevailing technologies and market rates. The Delhi Schedule of Rates were revised many times in the subsequent years viz 1977, 1981, 1985, 1989, 1993, 1997, 2002, 2007, 2010 (Reprint), 2012, 2013 & 2014.

Earlier Hindi version of DSR was being published separately, but considering the convenience and mandate for use of Hindi, the present DSR has been made bilingual and covered in two volumes.

The prices of labour and materials have registered some changes since last publication. Besides the cost, there has been spurt of new construction technologies and materials. This has necessitated revision of existing DSR 2014 to include the above changes.

Although this DSR contains most of the items of DSR 2014, the nomenclature of existing items has been reviewed & updated wherever found necessary. The items pertaining to new technology and materials have been added in New Sub head 26 for use of field units and feedback on these items.

I wish to place on record the technical input and effective coordination on the part of Shri Abhai Sinha, Spl. DG (HQ), Shri Balraj Chadha ADG (TD), Shri M.K. Sharma CE (CSQ)-(Civil) and the efforts put in by Shri S.P. Chaudhary Director (Tech. & PR), Shri P.P. Singh SE (TAS) and his team of officers in CSQ unit in finalizing the DSR-2016 in a short time.

I am sure that this Schedule of Rates 2016 will be quite useful to all concerned Engineers & Architects in the Building construction industry in general and CPWD in particular.

Place: New Delhi Date: July 2016 (Divakar Garg) Director General

PREFACE

- Delhi Schedule of Rates-2016 includes the existing items of DSR 2014 with deletion of few obsolete items, merger of similar items and addition of new items in line with emerging trends in construction Industry.
- 2. DSR-2016 is based on the prevailing market rates of materials in Delhi as on 01.04.2016. The labour rates adopted are as per minimum wages applicable w.e.f 01/04/2016 issued by Govt. of Delhi/Govt. of India, whichever is higher.
- 3. The cost index for DSR 2016 is **102** with reference to CPWD Plinth Area Rates 2012, having base 100 as on 01/10/2012.
- 4. This DSR 2016 shall be read along with CPWD specifications 2009 Vol.-I & II with up to date Correction Slips.
- 5. Following are the **Salient Features** of DSR-2016.
- 5.1 DSR-2016 is bilingual and in two volumes.
 - 5.1.1 Sub-head Nos. 24, 25 & 26 of DSR-2014 have been re-numbered as 23, 24 & 25 respectively due to separate publication of DSR for 'Horticulture and Land Scaping'.
 - 5.1.2 New Sub- head No. 26 for New Technologies and Materials has been introduced.
 - 5.1.3 The rates of basic materials incorporated in this DSR 2016 are considered for the materials available in the market, conforming to BIS Standards/CPWD Specifications.
 - 5.1.4 The items relating to uPVC windows have been made composite & units of measurement converted from metre to square metre with a number of possible combinations of window profiles. Provision for tolerance to profiles sizes have been made to allow for innovations and vendor variations.
- 6.0 Keeping in view amendments in IS: 383-2016, the use of manufactured aggregate (RCA & RA) have been permitted in the Concrete and RCC work.

Salient Modifications and Changes in Sub Heads:

- 7.1 **Carriage of Materials**: Item No. 1.1.18 for 'Disposal of moorum/ building rubbish/ malba/ similar unserviceable, dismantled or waste material by mechanical transport' has been added.
- **7.2 Concrete Work:** The items with FINE SAND have been deleted.
- **7.3 RCC Work**: The items of 1:2:4 nominal concrete mix (M15) have been modified to 1:1½:3 nominal concrete mix (M20) due to changes in IS 456 in the minimum grade of concrete to M20 keeping in view durability consideration. However, the use of nominal mix in RCC work is to be discouraged.
 - The item no. 5.29 for Non- asbestos cement bonded wood particle board 6 mm thick as per IS: 14276 for covering of expansion joints has been added.
- **7.4 Brick Work:** The item No. 6.47 for 'Autoclaved Aerated Cement blocks masonry with polymer modified adhesive mortar' has been added.
- **7.5 Stone Work:** Item No. 7.23.5 wall lining (veneer work) with Gang saw cut sand stone has been added.
- **7.6 Marble Work**: Item No. 8.13 for Polished Granite stone flooring has been added.
- **7.7 Wood Work:** Item No. 8.13 for Cement bonded wood particle board as per IS:14276 has been added.
 - Item Nos. **9.147.A to 9.147.F.4** for uPVC shutters having mode of measurement in square metre have been added by replacing old item in running metre.
 - Item Nos. 9.161 to 9.165 (for 120 minutes fire rated) fire resistant door have been added.
- **7.8 Steel Work:** Item Nos. 10.31 for angle iron frames for doors, windows for Maintenance Works has been added.
- **7.9 Flooring:** Items Nos. 11.37.A & 11.46. A for ceramic tiles for skirting and screen printed border tile have been added.
- 7.10 **Roofing:** Item No. 12.26.2 for 6 mm thick Cement bonded wood particle board as per IS:14276 has been added.
- 7.11 **Finishing**: Item No. 13.86 for 6 mm plaster on cement concrete or reinforced cement concrete work with white cement based polymer modified self curing mortar has been added.
- 7.12 **Repairs to building:** Item No. 14.75 for repair to plaster with white cement based polymer modified self curing mortar has been added.

- 7.13 **Road Work**: Item No. 16.95 to 16.97 for Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes have been added.
- 7.14 **Sanitary Installation**: Items pertaining to Hubless pipes as per IS:15905 (**22 Nos.**) vide Item Nos 17.35.1.3 to 17.60.2.3 have been added.
 - Item No 17.81 pertaining to floor mounted double siphoned water closet have been added.
- 7.15 **Water Proofing**: Item No. 22.22 to 22.26 for waterproofing treatment have been added.
- 8.0 New Technologies and Materials
 - With a view to give boost to make in India initiative of the Government, a new sub Head has been added for New Technologies and Materials. These new items are included for a period of two years and then performance shall be reviewed. Following are items added under this sub head.
- 8.1 Phenol bonded Bamboo wood flooring, wall skirting, wall cladding. 25 mm and 30mm thick panelled and panelled /glazed shutters for doors and windows and Bamboo wood frame.
- 8.2 50mm thick extruded polystyrene rigid insulation board for cavity wall and under deck insulation.
- 8.3 Relevant items for modular kitchen.
- 8.4 Items relating to Polypropylene Geogrid, Nonwoven Geotextile drainage composite and High strength flexible Geogrids (HSFG) as soil reinforcement.
- 8.5 Items for Aluminium profile industrial troughed sheet roofing.
- 8.6 Security guard with and without gun.
- 8.7 P/F Densified calcium silicate false ceiling tiles, GRG false ceiling tiles and Mineral fiber false ceiling tiles.
- 8.8 Repair and Rehabilitation 13 Nos. Items
- 8.9 New Technology items viz. Light Gauge Steel Framed Structure (LGSFS), Expanded Polystyrene Core (EPS Core) wall panel and roof/floor panels and Customized Aluminum formwork for monolithic construction.
- 8.10 While preparing the DSR, it is ensured that brand name, product of any particular company, proprietary items does not find place in the nomenclature of the items. In case, any such item having brand name/manufactures name is noticed, it may be brought to the notice of Superintending Engineer (TAS), CPWD, Nirman Bhawan, New Delhi for remedial action.
- 9.0 Lot of efforts have gone into the preparation of this Delhi Schedule of Rates 2016 (Bilingual). I convey my deep appreciation and sincere thanks to Shri M. K. Sharma CE(CSQ), Shri S. P. Chaudhary Director(Tech. & PR), Shri P. P. Singh SE(TAS) and his team comprising Shri R. B. Garg EE(TAS-II), Shri K. R. Meena EE(TAD), Shri Kunwar Chandresh EE(e-Gov.), Shri S. K. Srivastava EE(QA), Shri D. K. Chaudhary EE(QA),

Shri D. S. Adhikari - AE(QA), Shri K. N. Singh - AE(TAS), Shri D. K. Malhotra - AE(TAS), Ms. Anjana Reghu - JE, Shri Chalapaka Ramraju - JE, Shri Naveen Kumar P. - JE, Shri Jai Prakash - Chief Estimator, Shri Kishan Singh - Sr. D/man, Shri Bhim Singh - Sr. D/man; Shri Sanjeev Rastogi - SE(C&M) and his team comprising Shri Virendra Kumar - EE(M), Shri Keshav Ram - EE(C), Shri H. K. Gupta - AE(C), Shri Dalbir Singh - Sr.D/man; Shri Som Lal Kajal - EE(HQ); Shri Sanjay Singh - AD(OL) and his team for Hindi translation of DSR-2016, and other officers and staff of CSQ whose names are not mentioned here, for their sincere efforts made in the preparation of this document in such a short time. Various Committees and field units, who contributed field inputs, also deserve appreciation for their timely help.

10.0 Although due care has been taken to print the DSR- 2016 as correctly as possible, there is possibility that some errors might have crept in inadvertently. In case, any error or omission is noticed, it may be brought to the notice of Superintending Engineer (TAS), CPWD, Room no. 418, 'A', Nirman Bhawan, New Delhi – 110011 (Tele fax. 011-23062339).

Suggestions for improvement are always welcome.

(Balraj Chadha)

ADG (TD) CPWD

Note:- In case of any discrepancy between English and Hindi versions, the English version shall be held valid.

Committees for Bringing Out New edition of DSR 2016

CPWD DSR is a very comprehensive document. Delhi Schedule of Rate 2016 includes the existing item of DSR 2014 with deletion of few obsolete items, merger of similar items and addition of new items in line with emerging trends in construction industry. DSR 2016 is based on prevailing market rates of material and labour in Delhi as on 01.04.2016. To bring out new edition of DSR 2016 it was felt necessary to take input from as many officers as possible and utilize their experiences in this regard. Accordingly, the following committees were constituted for the above task.

1. Drafting Committee

| (a) | Shri M.K. Sharma, CE (CSQ)-Civil | Chairman |
|--------------|--|----------|
| <i>(b)</i> | Shri S.P. Chaudhary, Director (Tech. & PR) | Member |
| <i>(c)</i> | Shri Sanjeev Rastogi, SE (C&M) | Member |
| <i>(d)</i> | Shri P.P. Singh, SE (QA-cum-TLC) | Member |
| (e) | Shri K.R. Meena, EE (TAD) | Member |
| <i>(f)</i> | Shri R.B. Garg, EE (TAS) | Member |
| (g) | Shri Kunwar Chandresh, EE (E-gov.) | Member |
| <i>(h)</i> | Shri D.K. Chaudhary, EE (QA) | Member |
| <i>(i)</i> | Shri S.K. Srivastava, EE (QA) | Member |
| <i>(j)</i> | Shri Keshav Ram, EE (Contracts) | Member |
| (<i>k</i>) | Shri Virendra Kumar, EE (Manual) | Member |

2. Committee for review/revision of items of sub head 3, 4, 5 & 20 of DSR 2014

| <i>(a)</i> | Shri A.K. Garg, CE (CDO) | Chairman |
|------------|---------------------------|----------|
| <i>(b)</i> | Shri Rajesh Khare, SE (D) | Member |
| (c) | Shri A.K. Gupta, SE (D) | Member |

3. Committee for review/ revision of items of sub head 9, 21, & 25 of DSR 2014

| <i>(a)</i> | Shri Prabhakar Singh, CE (NDZ)-I | Chairman |
|------------|----------------------------------|----------|
| <i>(b)</i> | Shri K.S. Warriach, SE (P)-NDZ-I | Member |
| (c) | Shri Manoj Talreja, SE DCC-II | Member |

4. Committee for review/revision of items of sub head 1, 2 & 26 of DSR 2014

| (a) | Shri Akhilesh Kumar, CE (NDZ)-II | Chairman |
|------------|----------------------------------|----------|
| <i>(b)</i> | Shri R.K. Kashyap SE (P)-NDZ-II | Member |
| (c) | Shri B.K. Sinha, SE-DCC-IX | Member |

| <i>5</i> . | Committee for review/ revision of items of sub he | ead 11,12 & 13 of DSR 2014 |
|-------------|---|------------------------------------|
| (a) | Shri Bhagwan Singh, CE (NDZ)-III | Chairman |
| <i>(b)</i> | Shri N.K. Khatri, SE (P)-DCC-VI | Member |
| <i>(c)</i> | Shri Rajeev Gupta, SE-DCC-VIII | Member |
| <i>6</i> . | Committee for review/revision of items of sub he | ad 6, 7, 10, & 24 of DSR 2014 |
| (e) | Shri P.K. Singh, CE (NDZ)-IV | Chairman |
| <i>(a)</i> | Shri Rajeev Gupta, SE-DCC-V | Member |
| <i>(b)</i> | Shri R.R. Verma, PM SCP | Member |
| <i>7</i> . | Committee for review / revision of items of sub h | ead 17 & 18 of DSR 2014 |
| (a) | Shri Ranjit Singh, CE (NDZ-V) | Chairman |
| <i>(b)</i> | Shri Rajesh Banga, SE-DCC-IV | Member |
| (c) | Shri Prem Mohan, PM NDP Circle | Member |
| (d) | Shri Anurag Khare, SE-VBC | Member |
| 8. | Committee for review/revision of items of sub he | ad 22 of DSR 2014 |
| (a) | Shri S.L. Meena, CE (NDZ)-VI | Chairman |
| (b) | Shri O.S. Saini, SE-DCC-X | Member |
| 9. | Committee for review/revision of items of sub he | ad 14 & 15 of DSR 2014 |
| (a) | Shri Brijendra Kumar, CE (NDZ)-VII | Chairman |
| <i>(b)</i> | Shri S.S. Khanna, SE-DCC-XI | Member |
| <i>(c)</i> | Shri Gajendra Kumar, SE-DCC-XII | Member |
| <i>10</i> . | Committee for review/revision of items of sub he | ad 8 of DSR 2014 |
| (a) | Shri Rabindra Kumar, CE (NDZ-)VIII | Chairman |
| (b) | Shri Anurag Garg, SE GCC | Member |
| 11. | Committee for review/revision of items of sub he | ad 16 & 19 of DSR 2014 |
| (a) | Shri S.K. Rampal, CE (PWD-MZ-I) | |
| <i>(b)</i> | Shri Pradeep Gupta, CE, (East Zone) | Member |
| (c) | Shri A.K. Agarwal, SE (NE) | Member |
| (d) | Shri K.R. Bhandaria, SE (NW) | Member |
| 12. | Committee for making available basic rates for b | ouilding materials as on 01.04.201 |
| (a) | Shri Prabhakar Singh, CE (NDZ)-I Now ADG (NI | OR) |
| <i>(b)</i> | Shri Akhilesh Kumar, CE (NDZ)-II | |
| (c) | Shri Bhagwan Singh, CE (NDZ)-III | |
| (d) | Shri P.K. Singh, CE (NDZ)-IV | |
| (e) | Shri S.K. Rampal, CE (PWD MZ-I) | |

The above committees carried out their work under the overall supervision and guidance of $\mathbf{Shri}\,\mathbf{P.K.}\,\mathbf{Garg}\,\mathbf{the}\,\mathbf{then}\,ADG\,(TD).$

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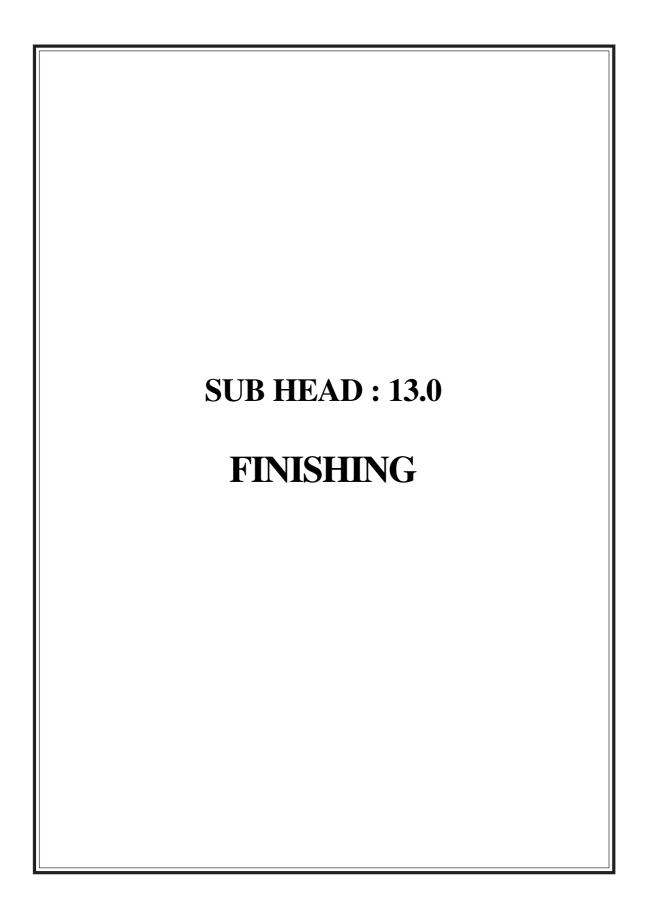
DELHI SCHEDULE OF RATES

(Vol. 2)

दिल्ली दर अनुसूची

(भाग - 2)

2016



BASIC RATES (SH: 13.0 FINISHING)

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|----------|-----------|
| 0101 | Bhisti | day | 407.00 |
| 0112 | Carpenter 2nd class | day | 448.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0117 | Assistant Fitter or 2nd class Fitter | day | 448.00 |
| 0122 | Mason (for plaster of paris work) 1st class | day | 487.00 |
| 0123 | Mason (brick layer) 1st class | day | 487.00 |
| 0131 | Painter | day | 448.00 |
| 0141 | White Washer | day | 407.00 |
| 0155 | Mason (average) | day | 467.00 |
| 0156 | Carpenter (Average) | day | 467.00 |
| 0324 | Coal Tar | litre | 30.00 |
| 0367 | Portland Cement (OPC-43 grade) | tonne | 5700.00 |
| 0368 | White Cement | tonne | 11200.00 |
| 0763 | Glue | kilogram | 70.00 |
| 0771 | Kerosene oil | litre | 45.00 |
| 0772 | White Cement based Polymer modified self curing compound in powder form | kg | 15.00 |
| 0775 | Dehradun white lime | quintal | 550.00 |
| 0776 | Satna lime | quintal | 370.00 |
| 0777 | Dry hydrated lime (factory made) | quintal | 280.00 |
| 0801 | Silicon and acrylic emulsion | litre | 130.00 |
| 0802 | Acrylic distemper 1st quality, having VOC content less than 50 grams/ litre | Kg | 38.00 |
| 0803 | Acrylic emulsion, having VOC content less than 50 grams/ litre | litre | 180.00 |
| 0804 | Premium acrylic emulsion of interior grade, having VOC content less than 50 grams/ litre | litre | 210.00 |
| 0805 | Synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre | litre | 200.00 |
| 0806 | Ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre | litre | 125.00 |
| 0807 | Ready mixed red oxide zinc chromatic on steel/ iron work, having VOC content less than 250 grams/ litre | litre | 120.00 |
| 8080 | Water thinnable cement primer for interior wall surface, having VOC content less than 50 grams/ litre | litre | 56.00 |
| 0809 | Exterior primer | kilogram | 52.00 |
| 0815 | Dry distemper | kilogram | 30.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|----------|-----------|
| 0816 | Oil bound washable distemper/ Acrylic distemper | kilogram | 45.00 |
| 0818 | Linseed oil (double boiled) | litre | 200.00 |
| 0820 | Cement primer | litre | 60.00 |
| 0821 | Distemper primer | litre | 59.00 |
| 0823 | Pink primer (for wood) | litre | 85.00 |
| 0824 | White cement based putty | kg | 20.00 |
| 0826 | Aluminium paint | litre | 130.00 |
| 0827 | Acid proof paint (chocolate or black) | litre | 225.00 |
| 0828 | Anticorrosive bituminous paint (black) | litre | 100.00 |
| 0829 | Black Japan paint | litre | 90.00 |
| 0830 | Enamel paint | litre | 155.00 |
| 0831 | Floor enamel paint in all shades except green | litre | 122.00 |
| 0833 | Synthetic enamel paint in black or chocolate shade | litre | 170.00 |
| 0834 | Synthetic enamel paint in all shades except black or chocolate shade | litre | 150.00 |
| 0835 | Plastic emulsion paint | litre | 200.00 |
| 850 | White lead | kilogram | 150.00 |
| 0851 | Water proofing cement paint | kilogram | 38.00 |
| 0855 | Wax polish (ready made) | kilogram | 250.00 |
| 0856 | Ordinary varnish | litre | 90.00 |
| 0857 | Superior copal varnish | litre | 130.00 |
| 0858 | Superior spar varnish | litre | 130.00 |
| 0859 | Oil type wood preservative | litre | 140.00 |
| 0868 | Premixed super white gypsum plaster | kg | 5.00 |
| 0869 | Plaster of Paris | kilogram | 4.00 |
| 0982 | Coarse sand (zone III) | cum | 1200.00 |
| 0999 | Shellac | kilogram | 300.00 |
| 1000 | Spirit | litre | 50.00 |
| 1179 | Crushed stone 2.36 mm to 12.5 mm size | cum | 900.00 |
| 1198 | Second class kail wood in planks | 10 cudm | 260.00 |
| 1213 | Water proofing materials | kilogram | 35.00 |
| 1216 | Whiting | quintal | 600.00 |
| 2202 | Carriage of Stone aggregate below 40 mm nominal size | cum | 103.77 |
| 2203 | Carriage of Coarse sand | cum | 103.77 |
| 2209 | Carriage of Cement | tonne | 92.24 |
| 2911 | Stone chippings/ screenings 10/ 11.2 mm nominal size | cum | 1200.00 |
| 4201 | Aluminium primer | litre | 88.00 |
| 4202 | Red oxide Zinc chromate primer | litre | 65.00 |
| 4203 | Copper acetate | kilogram | 300.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|----------|-----------|
| 4204 | Hydrochloric acid | kilogram | 35.00 |
| 4205 | Copper chloride | kilogram | 280.00 |
| 4206 | Copper nitrate | kilogram | 220.00 |
| 4207 | Ammonium chloride | kilogram | 20.00 |
| 7239 | Epoxy paint | litre | 240.00 |
| 7240 | Fire retardant paint | litre | 269.00 |
| 7306 | Aluminium T or L sections | kilogram | 200.00 |
| 8504 | Multi surface paint | litre | 255.00 |
| 8505 | Acrylic exterior paint | litre | 170.00 |
| 8506 | Premium Acrylic exterior paint | litre | 203.00 |
| 8507 | Textured exterior paint | litre | 230.00 |
| 8509 | Special Primer (C.W.) | litre | 140.00 |
| 8510 | Metal Primer (U.G.) | litre | 90.00 |
| 8733 | Synthetic ployster triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 | kg | 400.00 |
| 9977 | Carriage | L.S. | 1.73 |
| 9988 | Carriage and sundries | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |

13.0 FINISHING

| Code No. | | Description | Unit | Rate ₹ |
|-------------|------------------|---|------|-----------|
| | | Rates for external plastic are for height upto 10m from evel in less otherwise stated. | | |
| | CEMENT | PLASTER (IN FINE SAND) | | |
| 13.1 | 12 mm c | ement plaster of mix : | | |
| | 13.1.1 | 1:4 (1 cement: 4 fine sand) | sqm | 172.95 |
| | 13.1.2 | 1:6 (1 cement: 6 fine sand) | sqm | 160.35 |
| 13.2 | 15 mm co | ement plaster on the rough side of single or half brick wall | | |
| | 13.2.1 | 1:4 (1 cement: 4 fine sand) | sqm | 200.25 |
| | 13.2.2 | 1:6 (1 cement: 6 fine sand) | sqm | 185.20 |
| 13.3 | 20 mm c | ement plaster of mix : | | |
| | 13.3.1 | 1:4 (1 cement: 4 fine sand) | sqm | 240.15 |
| | 13.3.2 | 1:6 (1 cement: 6 fine sand) | sqm | 220.60 |
| | CEMENT | PLASTER (IN COARSE SAND) | | |
| 13.4 | 12 mm c | ement plaster of mix: | | |
| | 13.4.1 | 1:4 (1 cement: 4 coarse sand) | sqm | 180.85 |
| | 13.4.2 | 1:6 (1 cement: 6 coarse sand) | sqm | 168.25 |
| 13.5 | 15 mm of mix: | ement plaster on rough side of single or half brick wall | | |
| | 13.5.1 | 1:4 (1 cement: 4 coarse sand) | sqm | 209.65 |
| | 13.5.2 | 1:6 (1 cement: 6 coarse sand) | sqm | 194.60 |
| 13.6 | 20 mm c | ement plaster of mix : | | |
| | 13.6.1 | 1:4 (1 cement: 4 coarse sand) | sqm | 252.40 |
| | 13.6.2 | 1:6 (1 cement: 6 coarse sand) | sqm | 232.85 |
| | CEMENT | PLASTER WITH A FLOATING COAT OF NEAT CEMENT | | |
| 13.7 | 12 mm coof mix : | ement plaster finished with a floating coat of neat cement | | |
| | 13.7.1 | 1:3 (1 cement: 3 fine sand) | sqm | 226.80 |
| | 13.7.2 | 1:4 (1 cement: 4 fine sand) | sqm | 214.20 |
| 13.8 | | rement plaster on rough side of single or half brick wall with a floating coat of neat cement of mix: | | |
| | 13.8.1 | 1:3 (1 cement: 3 fine sand) | sqm | 256.55 |
| | 13.8.2 | 1:4 (1 cement: 4 fine sand) | sqm | 241.50 |
| 13.9 | | plaster 1:3 (1 cement: 3 coarse sand) finished with a floating eat cement. | | |
| | 13.9.1 | 12 mm cement plaster | sqm | 234.70 |
| | 13.9.2 | 20 mm cement plaster | sqm | 313.25 |

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| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-------------------------|-----------|
| 13.10 | 15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall. | sqm | 265.95 |
| | CEMENT PLASTER IN TWO COATS | • | |
| 13.11 | 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand). | sqm | 255.55 |
| 13.12 | 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with | | |
| | sponge. | sqm | 272.05 |
| 13.13 | 12 mm cement plaster 1:2 (1 cement : 2 stone dust). | sqm | 201.95 |
| 13.14 | 15 mm cement plaster 1:2 (1 cement : 2 stone dust) on the rough side of single or half brick wall. | sqm | 234.90 |
| 13.15 | 20 mm cement plaster 1:2 (1 cement : 2 stone dust). | sqm | 285.30 |
| | 6 MM CEMENT PLASTER | | |
| 13.16 | 6 mm cement plaster of mix : | | |
| | 13.16.1 1:3 (1 cement : 3 fine sand) | sqm | 143.80 |
| 13.17 | 6 mm cement plaster 1:3 (1 cement : 3 fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of | agm | 100.05 |
| 10.10 | walls when dry for bearing of R.C.C. slabs and beams. | sqm | 192.85 |
| 13.18 | Neat cement punning. | sqm | 42.60 |
| | ROUGH CAST PLASTER | | |
| 13.19 | Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement. | | |
| | 13.19.1 Ordinary cement finish using ordinary cement | sqm | 438.90 |
| | PEBBLE DASH PLASTER | | |
| 13.20 | Pebble dash plaster upto 10 m height above ground level with a mixture of washed pebble or crushed stone 6 mm to 12.5 mm nominal size, dashed over and including fresh plaster in two layers under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 10% finely grounded hydrated lime by volume | | |
| | of cement. | sqm | 415.00 |
| 13.21 | Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers | of 50 kg cement used | |
| | | in the mix | 50.35 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|-------------|--|--------------|-----------|
| 13.22 | | plastering exterior walls of height more than 10 m from vel for every additional height of 3 m or part thereof. | sqm | 40.65 |
| 13.23 | Extra for p | plastering on circular work not exceeding 6 m in radius: | | |
| | 13.23.1 | In one coat | sqm | 20.85 |
| | 13.23.2 | In two coats | sqm | 31.80 |
| 13.24 | | plastering done on moulding, cornices or architraves neat finish to line and level: | | |
| | 13.24.1 | In one coat | sqm | 305.45 |
| | 13.24.2 | In two coats | sqm | 503.20 |
| 13.25 | Extra for p | plastering: | | |
| | 13.25.1 | Spherical ceiling | sqm | 77.70 |
| | 13.25.2 | Groined ceiling | sqm | 84.45 |
| | 13.25.3 | Flewing soffits | sqm | 51.20 |
| 13.26 | _ | and applying plaster of paris putty of 2 mm thickness over surface to prepare the surface even and smooth complete. | sqm | 118.70 |
| | ARTIFICI | AL STONE PLASTER | | |
| 13.27 | Extra for I | ining out plaster to imitate stone or concrete blocks walling. | sqm | 48.85 |
| | PLAIN CE | EMENT MORTAR BANDS | | |
| 13.28 | | ick plain cement mortar bands in cement mortar 1:4 (1 4 fine sand): | | |
| | 13.28.1 | Flush Band | cm per metre | 3.45 |
| | 13.28.2 | Sunk Band | cm per metre | 3.75 |
| | 13.28.3 | Raised Band | cm per metre | 4.25 |
| | 13.28.4 | Moulded Band | cm per metre | 7.15 |
| 13.29 | | nick plain cement mortar band in cement mortar 1:4 t : 4 fine sand): | | |
| | 13.29.1 | Flush Band | cm per metre | 4.25 |
| | 13.29.2 | Sunk Band | cm per metre | 4.65 |
| | 13.29.3 | Raised Band | cm per metre | 5.25 |
| | 13.29.4 | Moulded Band | cm per metre | 9.60 |
| 13.30 | 12 mm thi | ck moulded cement mortar band in two coats under layer ck with cement mortar 1:5 (1 cement : 5 coarse sand) top m thick with cement mortar 1:4 (1 cement : 4 fine sand). | cm per metre | 9.60 |
| | POINTING | G ON BRICK WORK | | |
| 13.31 | - | on brick work or brick flooring with cement mortar 1:3 (1 3 fine sand): | | |
| | 13.31.1 | Flush / Ruled/ Struck or weathered pointing | sqm | 115.85 |
| | 13.31.2 | Raised and cut pointing | sqm | 188.70 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|------------------------|---|------|-----------|
| | POINTIN | G ON TILE BRICK WORK | | |
| 13.32 | Pointing on sand): | on tile brick work with cement mortar 1:3 (1 cement : 3 fine | | |
| | 13.32.1 | Flush/ Ruled/ Struck or weathered pointing | sqm | 158.45 |
| | POINTIN | G ON STONE WORK | | |
| 13.33 | Pointing (sand): | on stone work with cement mortar 1:3 (1 cement : 3 fine | | |
| | 13.33.1 | Flush/ Ruled pointing | sqm | 168.45 |
| | 13.33.2 | Raised and cut pointing | sqm | 305.70 |
| 13.34 | | nd cut pointing on stone work in white cement mortar 1:3 (1 nent : 3 marble dust). | sqm | 319.25 |
| 13.35 | Pointing of fine sand) | on stone slab ceiling with cement mortar 1:2 (1 cement : 2 | | |
| | 13.35.1 | Flush/ Ruled pointing | sqm | 95.05 |
| 13.36 | | pointing on walls on the outside at height more than 10 m and level for every additional height of 3 m or part there of. | sqm | 5.40 |
| | INTERIO | R FINISHING | | |
| 13.37 | White wa | shing with lime to give an even shade : | | |
| | 13.37.1 | New work (three or more coats) | sqm | 17.25 |
| 13.38 | Satna lim | e wash on walls with one coat. | sqm | 7.00 |
| 13.39 | Colour wa | ashing such as green, blue or buff to give an even shade : | | |
| | 13.39.1 | New work (two or more coats) with a base coat of white washing with lime | sqm | 23.60 |
| | 13.39.2 | New work (two or more coats) with a base coat of whiting | sqm | 23.25 |
| 13.40 | (two or mo | ring with dry distemper of approved brand and manufacture ore coats) of required shade on new work, over and including anable priming coat to give an even shade. | sqm | 71.85 |
| 13.41 | | ring with oil bound washable distemper of approved brand ufacture to give an even shade : | | |
| | 13.41.1 | New work (two or more coats) over and including water thinnable priming coat with cement primer | sqm | 93.70 |
| 13.42 | approved | ering with 1st quality acrylic distemper (ready mixed) of manufacturer, of required shade and colour complete, as facturer's specification. | | |
| | 13.42.1 | Two or more coats on new work | sqm | 53.15 |
| 13.43 | | one coat of water thinnable cement primer of approved brand ufacture on wall surface : | | |
| | 13.43.1 | Water thinnable cement primer | sqm | 36.95 |
| | EXTERIO | PR FINISHING | | |
| 13.44 | Finishing | walls with water proofing cement paint of required shade: | | |
| | 13.44.1 | New work (Two or more coats applied @ 3.84 kg/10 sqm) | sqm | 58.80 |

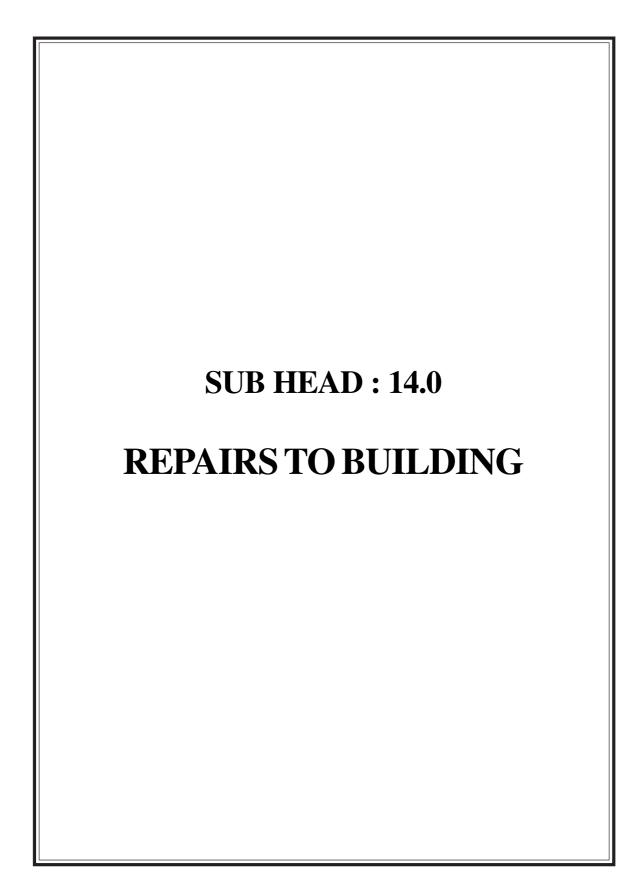
| Code No. | | Description | Unit | Rate ₹ |
|-------------|-----------|--|------|-----------|
| 13.45 | Finishing | walls with textured exterior paint of required shade: | | |
| | 13.45.1 | New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm | sqm | 150.65 |
| 13.46 | Finishing | walls with Acrylic Smooth exterior paint of required shade : | | |
| | 13.46.1 | New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm) | sqm | 96.05 |
| 13.47 | | walls with Premium Acrylic Smooth exterior paint with additives of required shade: | | |
| | 13.47.1 | New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm) | sqm | 96.80 |
| 13.48 | _ | with Deluxe Multi surface paint system for interiors and using Primer as per manufacturers specifications: | | |
| | 13.48.1 | Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm | sqm | 98.95 |
| | 13.48.2 | Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture | sqm | 88.60 |
| | 13.48.3 | Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/10 sqm of approved brand and manufacture | sqm | 84.75 |
| 13.50 | Applying | priming coat: | | |
| | 13.50.1 | With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) | sqm | 34.95 |
| | 13.50.2 | With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood | sqm | 35.20 |
| | 13.50.3 | With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works | sqm | 29.10 |
| | 13.50.4 | With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat) | sqm | 15.60 |
| 13.51 | of approv | with silicon & acrylic emulsion based water thinnable sealer yed brand and manufacture on wet or patchy portion of surfaces: | | |
| | 13.51.1 | One coat | sqm | 56.65 |
| | 13.51.2 | Two coats | sqm | 90.05 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--------------------------|---|-------|-----------|
| 13.52 | and applie | with Epoxy paint (two or more coats) at all locations prepared ed as per manufacturer's specifications including appropriate pat, preparation of surface, etc. complete. | | |
| | 13.52.1 | On steel work | sqm | 122.50 |
| | 13.52.2 | On concrete work | sqm | 124.50 |
| 13.53 | | n G.S. sheet with synthetic enamel paint of approved brand ufacture of required colour to give an even shade: | | |
| | 13.53.1 | New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution | sqm | 84.00 |
| 13.54 | Applying | a coat of mordant solution on G.S. sheet: | | |
| | 13.54.1 | With a solution of 38 gms of copper acetate in a litre of soft water | sqm | 29.25 |
| | 13.54.2 | With a solution made of 13 gms of hydrochloric acid in a solution of 13 gms each of copper chloride, copper nitrate and ammonium chloride dissolved in a litre of soft water | sqm | 29.05 |
| 13.55 | pipes and brand and | (two or more coats) on rain water, soil, waste and vent fittings with black anticorrosive bitumastic paint of approved manufacture, over and including a priming of ready mixed mate yellow primer on new work: | | |
| | 13.55.1 | 100 mm diameter pipes | metre | 35.85 |
| | 13.55.2 | 150 mm diameter pipes | metre | 53.50 |
| 13.56 | pipes and manufact | (two or more coats) on rain water, soil, waste and vent fittings with synthetic enamel paint of approved brand and ure and required colour over a priming coat of approved ler on new work. | | |
| | 13.56.1 | 100 mm diameter pipes | metre | 40.55 |
| | 13.56.2 | 150 mm diameter pipes | metre | 60.40 |
| 13.57 | Painting v | with oil type wood preservative of approved brand and ure: | | |
| | 13.57.1 | New work (two or more coats) | sqm | 32.20 |
| 13.58 | wood / ply of base su | and applying two coats of fire retardant paint on cleaned surface @ 3.5 sqm per litre per coat including preparation urface as per recommendations of manufacturer to make | | 202.55 |
| | | ee fire retardant. | sqm | 232.55 |
| 13.59 | | ng two coats on new work using 0.16 Litre and 0.12 litre er sqm in the first coat and second coat respectively. | sqm | 33.45 |
| 13.60 | • | ting with acrylic emulsion paint of approved brand and ure to give an even shade: | | |
| | 13.60.1 | Two or more coats on new work | sqm | 84.45 |
| 13.61 | _ | with synthetic enamel paint of approved brand and ure to give an even shade : | | |
| | 13.61.1 | Two or more coats on new work | sqm | 78.40 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|--|-----------------------------|-----------|
| 13.62 | _ | with synthetic enamel paint of approved brand and ure of required colour to give an even shade: | | |
| | 13.62.1 | Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture | sqm | 112.30 |
| 13.63 | _ | vith aluminium paint of approved brand and manufacture to ven shade . | | |
| | 13.63.1 | Two or more coats on new work | sqm | 68.35 |
| 13.64 | _ | vith acid proof paint of approved brand and manufacture of colour to give an even shade: | | |
| | 13.64.1 | Two or more coats on new work | sqm | 85.85 |
| 13.65 | _ | vith black anti-corrosive bitumastic paint of approved brand ufacture to give an even shade: | | |
| | 13.65.1 | Two or more coats on new work | sqm | 65.20 |
| 13.66 | | nting with floor enamel paint of approved brand and ure of required colour to give an even shade: | | |
| | 13.66.1 | Two or more coats on new work | sqm | 76.50 |
| 13.67 | Varnishin | g with varnish of approved brand and manufacture : | | |
| | 13.67.1 | Two or more coats of glue sizing with copal varnish over an under coat of flatting varnish | sqm | 114.85 |
| | 13.67.2 | Two or more coats glue sizing with spar varnish or an under coat of flatting varnish | sqm | 115.85 |
| 13.68 | French sp | pirit polishing: | | |
| | 13.68.1 | Two or more coats on new works including a coat of wood filler | sqm | 209.75 |
| 13.69 | | on wood work with ready mixed wax polish of approved manufacture: | | |
| | 13.69.1 | New work | sqm | 92.70 |
| 13.70 | | ishing on masonry or concrete floors with wax polish of brand and manufacture. | sqm | 43.50 |
| 13.71 | Lettering | with black Japan paint of approved brand and manufacture | per letter per cm height | 2.70 |
| 13.72 | above gro 1:4 (1 ce scratching cement p (1 cemen in panels scrubbing the stone | stone grit plaster on exterior walls height upto 10 metre bund level, in two layers, under layer 12 mm cement plaster ment: 4 coarse sand), furrowing the under layer with g tool, applying cement slurry on the under layer @ 2 Kg of er square metre, top layer 15 mm cement plaster 1:1/2:2 t: 1/2 coarse sand: 2 stone chipping 10 mm nominal size), with groove all around as per approved pattern, including and washing the top layer with brushes and water to expose chippings, complete as per specification and direction of in-charge (payment for providing grooves shall be made | | |
| | separatel | | sqm | 582.60 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|----------------------------------|-----------------|
| 13.73 | plaster as under laye of panels | roove of uniform size in the top layer of washed stone grit per approved pattern using wooden battens, nailed to the r, including removal of wooden battens, repair to the edges and finishing the groove complete as per specifications ion of the Engineer-in-charge: | | |
| | 13.73.1 | 15 mm wide and 15 mm deep groove | metre | 34.40 |
| | 13.73.2 | 20 mm wide and 15 mm deep groove | metre | 34.95 |
| 13.74 | | vashed grit plaster on exterior walls of height more than 10 bund level for every additional height of 3 m or part thereof. | sqm | 85.90 |
| 13.75 | | vashed stone grit plaster on circular work not exceeding 6 s (in two coats). | sqm | 60.45 |
| 13.76 | in the top la pattern, in appropriat under lay | roove of uniform size from 12x12 mm and upto 25x15 mm ayer of washed stone grit plastered surface as per approved not luding providing and fixing aluminum channels of the size and thickness (not less than 2 mm), nailed to the er with rust proof screws and nails and finishing the implete as per specifications and direction of the Engineer-in- | metre | 71.60 |
| 13.77 | Extra for u | using white cement in place of ordinary cement in the top | | |
| 13.78 | Providing one coat g aggregate (Part - 1 & as bare br | e item of washed stone grit plaster. and applying 12 mm thick (average) premixed formulated ypsum lightweight plaster having additives and light weight s as vermiculite/ perlite respectively conforming to IS: 2547 II) 1976, applied on hacked / uneven background such rick/ block/ RCC work on walls & ceiling at all floors and finished in smooth line and level etc. complete. | sqm sqm | 63.90 217.35 |
| 13.79 | 6 mm, effo 1.34 to 1.4 Polyester | addition of synthetic Polyester triangular fibre of length ective diameter 10-40 microns and specific gravity of 10 in cement plaster/mortar by using 125 gms. of synthetic triangular fibre for 50 Kgs. cement used in cement mortar ections of Engineer-in-Charge. | Per Bag of 50 Kg of cement | 58.10 |
| 13.80 | 1 mm, of a | and applying white cement based putty of average thickness approved brand and manufacturer, over the plastered wall prepare the surface even and smooth complete. | sqm | 87.35 |
| 13.81 | Organic C brand and | ring with 1st quality acrylic distemper, having VOC (Volatile ompound) content less than 50 grams/litre, of approved manufacture, including applying additional coats wherever o achieve even shade and colour. | · | |
| | 13.81.1 | One coat | sqm | 30.90 |
| | 13.81.2 | Two coats | sqm | 49.65 |
| 13.82 | Compound manufactu | ng with acrylic emulsion paint, having VOC (Volatile Organic d) content less than 50 grams/litre, of approved brand and are, including applying additional coats wherever required, even shade and colour. | | |
| | 13.82.1 | One coat | sqm | 49.35 |
| | 13.82.2 | Two coats | Sqm | 73.90 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|-----------------------|--|------|-----------|
| 13.83 | having Vograms/ liti | ting with premium acrylic emulsion paint of interior grade, OC (Volatile Organic Compound) content less than 50 re of approved brand and manufacture, including applying coats wherever required to achieve even shade and colour. | | |
| | 13.83.1 | One coat | sqm | 46.65 |
| | 13.83.2 | Two coats | Sqm | 71.00 |
| 13.84 | Compour and man | with synthetic enamel paint, having VOC (Volatile Organic and) content less than 150 grams/ litre, of approved brand ufacture, including applying additional coats wherever o achieve even shade and colour. | | |
| | 13.84.1 | One coat | sqm | 49.75 |
| | 13.84.2 | Two coats | sqm | 75.00 |
| 13.85 | | priming coats with primer of approved brand and ure, having low VOC (Volatile Organic Compound) content. | | |
| | 13.85.1 | With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/litre | sqm | 38.45 |
| | 13.85.2 | With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre | sqm | 32.55 |
| | 13.85.3 | With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre | sqm | 36.95 |
| 13.86 | concrete self curi | laster on cement concrete or reinforced cement work with white cement based polymer modified mg mortar of approved make as per the direction of r-In-Charge. | sqm | 146.45 |



BASIC RATES (SH: 14.0 REPAIRS TO BUILDING)

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|---------|-----------|
| 0006 | Hire charges of Spraying machine including electric charges | day | 250.00 |
| 0011 | Hire charges of Pump set of capacity 4000 litres/hour | day | 650.00 |
| 0058 | Air compressor | hour | 200.00 |
| 0085 | Using cost of Ultra Violet Radiation tube | Hour | 189.00 |
| 0086 | Compressor, gun, rubber pipes & other accessories- hire charge of plant & machinery i/c necessary fuel | day | 4000.00 |
| 0087 | Hire Charges of Suction Jeting machine 2200 PSI machine including POL and operator | day | 36000.00 |
| 0100 | Bandhani | day | 407.00 |
| 0101 | Bhisti | day | 407.00 |
| 0102 | Blacksmith 1st class | day | 487.00 |
| 0103 | Blacksmith 2nd class | day | 448.00 |
| 0111 | Carpenter 1st class | day | 487.00 |
| 0112 | Carpenter 2nd class | day | 448.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0116 | Fitter (grade 1) | day | 487.00 |
| 0117 | Assistant fitter or 2nd class fitter | day | 448.00 |
| 0119 | Glazier | day | 448.00 |
| 0123 | Mason (brick layer) 1st class | day | 487.00 |
| 0124 | Mason (brick layer) 2nd class | day | 448.00 |
| 0126 | Mason 1st class | day | 487.00 |
| 0128 | Mate | day | 407.00 |
| 0129 | Sewer man | day | 390.00 |
| 0130 | Mistry | day | 487.00 |
| 0131 | Painter | day | 448.00 |
| 0138 | Sprayer (for bitumen, tar etc.) | day | 407.00 |
| 0139 | Skilled Beldar (for floor rubbing etc.) | day | 407.00 |
| 0141 | White Washer | day | 407.00 |
| 0155 | Mason (average) | day | 467.00 |
| 0156 | Carpenter (average) | day | 467.00 |
| 0160 | Technician | day | 775.00 |
| 0295 | Stone Aggregate (Single size): 20 mm nominal size | cum | 1300.00 |
| 0297 | Stone Aggregate (Single size): 10 mm nominal size | cum | 1300.00 |
| 0302 | Safeda ballies 125 mm diameter | metre | 35.00 |
| 0308 | Bhusa | quintal | 600.00 |
| 0367 | Portland Cement (OPC-43 grade) | tonne | 5700.00 |
| 0389 | Brass single acting spring hinges 150 mm | each | 460.00 |
| 0390 | Brass single acting spring hinges 125 mm | each | 298.00 |
| 0391 | Brass single acting spring hinges 100 mm | each | 260.00 |
| 0392 | Brass double acting spring hinges 150 mm | each | 498.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|---------|-----------|
| 0393 | Brass double acting spring hinges 125 mm | each | 410.00 |
| 0394 | Brass double acting spring hinges 100 mm | each | 370.00 |
| 0404 | Brass flush bolt 250 mm | each | 150.00 |
| 0405 | Brass flush bolt 150 mm | each | 130.00 |
| 0406 | Brass flush bolt 100 mm | each | 90.00 |
| 0417 | Brass 150 mm floor door stopper (0.357kg) | each | 170.00 |
| 0418 | Brass hard drawn hooks and eyes 300 mm | 10 Nos | 650.00 |
| 0419 | Brass hard drawn hooks and eyes 250 mm | 10 Nos | 635.00 |
| 0420 | Brass hard drawn hooks and eyes 200 mm | 10 Nos | 590.00 |
| 0421 | Brass hard drawn hooks and eyes 150 mm | 10 Nos | 450.00 |
| 0422 | Brass hard drawn hooks and eyes 100 mm | 10 Nos | 400.00 |
| 0423 | Brass casement window fastener | each | 50.00 |
| 0427 | Brass quadrant stays 300 mm | each | 125.00 |
| 0428 | Brass fanlight catch | 10 Nos | 200.00 |
| 0429 | Brass fanlight pivot | 10 Nos | 195.00 |
| 0430 | Brass chain with hook for fan light catch | each | 40.00 |
| 0442 | Brass helical spring 150 mm | each | 310.00 |
| 0444 | Brass curtain rod 20 mm dia 1.25 mm thick | metre | 120.00 |
| 0445 | Brass curtain rod 25 mm dia 1.25 mm thick | metre | 140.00 |
| 0446 | Brass brackets (curtain rods) 20 mm | each | 45.00 |
| 0449 | Brass screws 50 mm | 100 Nos | 220.00 |
| 0450 | Brass screws 40 mm | 100 Nos | 170.00 |
| 0452 | Brass screws 25 mm | 100 Nos | 100.00 |
| 0524 | Chromium plated Brass butt hinges (heavy) type 75x65x4 mm weighing not less than 200gms | 10 Nos | 1000.00 |
| 0525 | Chromium plated Brass butt hinges (light/ordinary) type 125x70x4mm | 10 Nos | 900.00 |
| 0526 | Chromium plated Brass butt hinges (light/ordinary) type 100x 70x4 mm | 10 Nos | 750.00 |
| 0527 | Chromium plated Brass butt hinges (light/ordinary) type 75x 40x2.5 mm | 10 Nos | 460.00 |
| 0528 | Chromium plated Brass butt hinges (light/ordinary) type 50x 40x2.5 mm | 10 Nos | 200.00 |
| 0585 | Chromium plated Brass screws 50 mm | 100 Nos | 340.00 |
| 0586 | Chromium plated Brass screws 40 mm | 100 Nos | 310.00 |
| 0587 | Chromium plated Brass screws 30 mm | 100 Nos | 250.00 |
| 0589 | Chromium plated Brass screws 20 mm | 100 Nos | 170.00 |
| 0595 | Bright finished or black enameled mild steel butt hinges 100x 58x1.90 mm | 10 Nos | 85.00 |
| 0597 | Bright finished or black enameled mild steel butt hinges 50x 37x1.50 mm | 10 Nos | 50.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|----------|-----------|
| 0608 | Nickel plated bright finished mild steel piano hinges 1 mm thick 25 mm wide | metre | 40.00 |
| 0637 | Bright finished or black enameled mild steel screws 40 mm | 100 Nos | 63.00 |
| 0639 | Bright finished or black enameled mild steel screws 25 mm | 100 Nos | 37.00 |
| 0640 | Bright finished or black enameled mild steel screws 20 mm | 100 Nos | 32.00 |
| 0761 | Fuel wood | quintal | 500.00 |
| 0771 | Kerosene oil | litre | 45.00 |
| 0772 | White cement based polymer modified self curing compound in powder form | kg | 15.00 |
| 0775 | Dehradun white lime | quintal | 550.00 |
| 0811 | Mud (dry) | cum | 150.00 |
| 0815 | Dry distemper | kilogram | 30.00 |
| 0816 | Oil bound washable distemper/ Acrylic distemper | kilogram | 45.00 |
| 0826 | Aluminium paint | litre | 130.00 |
| 0827 | Acid proof paint (chocolate or black) | litre | 225.00 |
| 0828 | Anticorrosive bituminous paint (black) | litre | 100.00 |
| 0829 | Black Japan paint | litre | 90.00 |
| 0833 | Synthetic enamel paint in black or chocolate shade | litre | 170.00 |
| 0835 | Plastic emulsion paint | litre | 200.00 |
| 0845 | Roofing paint for iron sheets in red colour | litre | 120.00 |
| 0851 | Water proofing cement paint | kilogram | 38.00 |
| 0855 | Wax polish (ready made) | kilogram | 250.00 |
| 0856 | Ordinary varnish | litre | 90.00 |
| 0857 | Superior copal varnish | litre | 130.00 |
| 0858 | Superior spar varnish | litre | 130.00 |
| 0859 | Oil type wood preservative | litre | 140.00 |
| 0863 | Putty for wood work | kilogram | 30.00 |
| 0982 | Coarse sand (zone III) | cum | 1200.00 |
| 0999 | Shellac | kilogram | 300.00 |
| 1000 | Spirit | litre | 50.00 |
| 1003 | Mild steel round bar above 12 mm dia | quintal | 3575.00 |
| 1007 | Structural steel such as tees, angles channels and R.S. joists | quintal | 3775.00 |
| 1008 | Flats up to 10 mm in thickness | quintal | 3675.00 |
| 1023 | Galvanised steel J or L hooks 8 mm dia | 10 Nos | 115.00 |
| 1034 | Bolts and nuts up to 300 mm in length | quintal | 5100.00 |
| 1174 | Red sand stone slab 45 mm to 50 mm thick (un-dressed) | sqm | 225.00 |
| 1186 | Superior class teak wood such as Dandeli, Balarshah or Malabar in planks | 10 cudm | 1100.00 |
| 1188 | First class teak wood in planks | 10 cudm | 850.00 |
| 1189 | Second class teak wood in scantling | 10 cudm | 660.00 |
| 1190 | Second class teak wood in planks | 10 cudm | 675.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|----------|-----------|
| 1194 | Second class deodar wood in planks | 10 cudm | 500.00 |
| 1196 | First class kail wood in planks | 10 cudm | 310.00 |
| 1199 | Sal wood in scantling | 10 cudm | 600.00 |
| 1208 | Bitumen washer | 100 Nos | 30.00 |
| 1209 | G.I. plain washer thick | 100 Nos | 35.00 |
| 1213 | Water proofing materials | kilogram | 35.00 |
| 1215 | Welding by electric plant | cm | 2.00 |
| 1301 | Bleaching powder | quintal | 1750.00 |
| 1314 | C.P.brass chain with 32 mm dia rubber plug | each | 40.00 |
| 1315 | C.P.brass chain with 40 mm dia rubber plug | each | 40.00 |
| 1880 | Dismenteled P or S trap scrap (approx wt 2kg) | kg | 22.00 |
| 1890 | Centrifugally SCI(spun) S & S P or S trap | each | 300.00 |
| 1953 | Vitreous china Indian type W.C. pan of size 580 mm | each | 450.00 |
| 1954 | Vitreous china orrisa type W.C. pan of size 580 mm | each | 780.00 |
| 1970 | Vitreous china foot rests 250x125x25 mm | pair | 100.00 |
| 2201 | Carriage of Bricks | 1000 Nos | 276.72 |
| 2202 | Carriage of Stone aggregate below 40 mm nominal size | cum | 103.77 |
| 2203 | Carriage of Coarse sand | cum | 103.77 |
| 2204 | Carriage of Timber | cum | 118.59 |
| 2205 | Carriage of Steel | tonne | 92.24 |
| 2209 | Carriage of Cement | tonne | 92.24 |
| 2216 | Carriage of Stone blocks white & red sand stone & kota stone slab | tonne | 92.24 |
| 2264 | Carriage of Rubbish | cum | 103.77 |
| 2406 | Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm) | sqm | 286.00 |
| 2407 | Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm) | sqm | 490.00 |
| 2466 | Hollock wood in scantling | 10 cudm | 340.00 |
| 2467 | Chromium plated Brass pull bolt lock (locking bolt) of size 85 mm x 42 mm with screws, bolts, nuts and washers complete | each | 165.00 |
| 2602 | Common burnt clay F.P.S. (non modular) bricks class designation 7.5 | 1000 Nos | 4500.00 |
| 4009 | Mild steel tubes hot finished welded type | kilogram | 42.00 |
| 4202 | Red oxide Zinc chromate primer | litre | 65.00 |
| 7019 | Dash fastener / Chemical fastener | each | 15.00 |
| 7241 | Melamine polish | litre | 290.00 |
| 7346 | Double coupler | each | 48.00 |
| 7387 | Spigot for standard jointing | kilogram | 45.00 |
| 7397 | Base Jack | each | 150.00 |
| 7398 | Challies | each | 800.00 |
| 7399 | Cup locks | each | 50.00 |
| 7442 | Wheel 75 mm dia. 40 mm wide | each | 65.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|------------|-----------|
| 7752 | PVC slotted pipe 200 mm dia as per IS: 12818 | metre | 700.00 |
| 8500 | Water for jetting / blowback | 1000 litre | 1500.00 |
| 8505 | Acrylic exterior paint | litre | 170.00 |
| 8506 | Premium Acrylic exterior paint | litre | 203.00 |
| 8507 | Textured exterior paint | litre | 230.00 |
| 8508 | Primer for cement paint | litre | 70.00 |
| 9977 | Carriage | L.S. | 1.73 |
| 9988 | Carriage and sundries | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |

14.0 REPAIRS TO BUILDING

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|-------|-----------|
| 14.1 | 2.5 sq. me raking ou walls com | o plaster of thickness 12 mm to 20 mm in patches of area eters and under, including cutting the patch in proper shape, at joints and preparing and plastering the surface of the aplete, including disposal of rubbish to the dumping ground, ete as per directions of Engineer-In-Charge. | | |
| | 14.1.1 | With cement mortar 1:4 (1 cement : 4 fine sand) | sqm | 264.80 |
| | 14.1.2 | With cement mortar 1:4 (1cement: 4 coarse sand) | sqm | 274.80 |
| 14.2 | Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. | | | |
| | 14.2.1 | Door chowkhats | each | 852.70 |
| | 14.2.2 | Window chowkhats | each | 529.50 |
| | 14.2.3 | Clerestory window chowkhats | each | 387.10 |
| 14.3 | fasteners vertical m | owkhat in existing opening in brick/ RCC wall with dash of Chemical fasteners of appropriate size (3 nos on each ember of door chowkhat and 2 nos on each vertical member of chowkhats), including Cost of dash fasteners/ chemical | each | 157.95 |
| 14.4 | Making th or walls b flooring a of mulba | ne opening in brick masonry including dismantling in floor y cutting masonry and making good the damages to walls, nd jambs complete, to match existing surface i/c disposal / rubbish to the nearest municipal dumping ground, all as per directions of Engineer-In-Charge. | | |
| | 14.4.1 | For door/ window/ clerestory window | sqm | 546.25 |
| 14.5 | Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: | | | |
| | 14.5.1 | Float glass panes of thickness 4 mm | sqm | 637.90 |
| | 14.5.2 | Float glass panes of thickness 5.5 mm | sqm | 898.55 |
| 14.6 | Renewin | g glass panes, with wooden fillets wherever necessary: | | |
| | 14.6.1 | Float glass panes of thickness 4 mm | sqm | 852.60 |
| | 14.6.2 | Float glass panes of thickness 5.5 mm | sqm | 1113.25 |
| 14.7 | Renewin | g glass panes and refixing existing wooden fillets: | | |
| | 14.7.1 | Float glass panes of thickness 4 mm | sqm | 688.65 |
| | 14.7.2 | Float glass panes of thickness 5.5 mm | sqm | 949.30 |
| 14.8 | Supplying | g and fixing new wooden fillets wherever necessary: | | |
| | 14.8.1 | 2nd class teak wood fillets | metre | 38.65 |
| | 14.8.2 | Hollock wood fillets | metre | 34.20 |

| Code No. | Description | Unit | Rate ₹ | |
|-------------|--|-------|-----------|--|
| 14.9 | Renewal of old putty of glass panes (length) | metre | 25.45 | |
| 14.10 | Refixing old glass panes with putty and nails | sqm | 330.75 | |
| 14.11 | Fixing old glass panes with wooden fillets (excluding cost of fillets) | sqm | 295.05 | |
| 14.12 | Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab, including cutting chase, anchoring clamp to reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete. | each | 259.50 | |
| 14.13 | Regrading terracing of mud phaska covered with tiles or brick, in cement by dismantling tiles or bricks, removing mud plaster, preparing the surface of mud phaska to proper slope, relaying mud plaster gobri leaping and tiles or bricks, grouted in cement mortar 1:3 (1 cement : 3 fine sand), including replacing unserviceable tiles or bricks with new ones and disposal of unserviceable material to the dumping ground (the cost of the new tiles or brick excluded), all complete as per directions of Engineer-In-Charge. | | | |
| 14.14 | Replacing sand stone slabs in roofing, laid in cement mortar 1:4 (1 cement : 4 coarse sand), including necessary repairs and cement pointing with same mortar complete, including disposal of rubbish to dumping ground, all complete as per directions of Engineer-In-Charge. | · | | |
| | 14.14.1 Red/ white sand stone slabs 30 to 50 mm thick | sqm | 659.10 | |
| 14.15 | Renewing wooden battens in roofs, including making good the holes in wall and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. | | | |
| | 14.15.1 Sal wood battens | cum | 76828.35 | |
| 14.16 | Renewing wooden beams in roofs including making good the holes in walls and painting with oil type wood preservative of approved brand and manufacture complete, including removal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. | | | |
| | 14.16.1 Not exceeding 4.00 metres in length. | | | |
| | 14.16.1.1 Sal wood beams | cum | 79341.25 | |
| | 14.16.1.2 Hollock wood beams | cum | 48223.75 | |
| | 14.16.2 Above 4.00 metres and upto 5.00 metres length. | | | |
| | 14.16.2.1 Sal wood beams | cum | 80485.90 | |
| | 14.16.2.2 Hollock wood beams | cum | 49336.15 | |
| 14.17 | Raking out joints in lime or cement mortar and preparing the surface for re-pointing or replastering, including disposal of rubbish to the dumping ground, all complete as per directions of Engineer-In-Charge. sqm | | | |
| 14.18 | Flush pointing with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement for flat tile bricks on top of mud phaska : | | | |
| | 14.18.1 With F.P.S. brick tiles | sqm | 62.95 | |
| | 14.18.2 With modular brick tiles | sqm | 64.00 | |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--|--|---|------------|-----------|
| 14.19 | Taking out wind ties from roof including cutting out rusted bolts, nuts etc. and removing materials to any distance within compound and stacking. | | | kg | 2.25 |
| 14.20 | Fixing of old wind tie with new fittings including painting two or more coats with anticorrosive bitumastic paint of approved brand & manufacturer over and including priming coat of ready mixed zinc chromate yellow primer of approved brand. | | | metre | 74.40 |
| 14.21 | Renewing bottom rail and/or top runner of collapsible gate including making good all damages and applying priming coat of zinc chromate yellow primer of approved brand and manufacturer. | | | kg | 144.10 |
| 14.22 | and fitting | g Wrought irong g and fixing t ding and erec | | | |
| | 14.22.1 | Wheel 50 r | nm dia and below | per wheel | 122.65 |
| | 14.22.2 | Wheel abo | ve 50 mm dia | per wheel | 187.25 |
| | EARTH V | VORK | | | |
| 14.23 | | out water cau ins or drains | sed by springs, tidal or river seepage, broken and the like. | kilo litre | 104.30 |
| 14.24 | Mud mor | tar made with | local clay good earth. | cum | 533.20 |
| | BRICK WORK | | | | |
| 14.25 | Brick work with common burnt clay bricks of class designation 7.5 in mud mortar | | | cum | 3972.20 |
| | WOOD W | VORK | | | |
| 14.26 | Providing | and fixing 25 | | | |
| | 14.26.1 Panelled or panelled & glazed shutters : | | | | |
| | | 14.26.1.1 | Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws. | sqm | 3492.55 |
| | | 14.26.1.2 | Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws. | sqm | 2954.85 |
| | 14.26.2 | Glazed sh | utters : | · | |
| | | 14.26.2.1 | Superior class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws. | sqm | 3563.10 |
| | | 14.26.2.2 | Ist class teak wood including nickel plated bright finished M.S. piano hinges with necessary screws. | sqm | 2985.05 |
| 14.27 | Providing and fixing plain jaffri door and window shutters including bright or/and black enamelled M.S. butt hinges with necessary screws 35x10 mm laths placed 35 mm apart (frames to be paid separately), including fixing 50x12 mm beading complete with: | | | | |
| | 14.27.1 | Second cla | ass teak wood | sqm | 2837.20 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|-------|-----------|
| 14.28 | Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete. | | | |
| | 14.28.1 | 20 mm diameter. | metre | 222.10 |
| | 14.28.2 | 25 mm diameter. | metre | 245.35 |
| 14.29 | | and fixing M.S. round or square bars with M.S. flats ed spacing in wooden frames of windows and clerestory | kg | 61.80 |
| 14.30 | _ | joists (karries) including hoisting, fixing in position and wood preservative on unexposed surface etc. complete | | |
| | 14.30.1 | Sal wood | cum | 75873.50 |
| | 14.30.2 | Hollock wood | cum | 45070.55 |
| 14.31 | | and fixing bright finished brass single acting spring hinges essary brass screws etc. complete: | | |
| | 14.31.1 | 150 mm | each | 586.65 |
| | 14.31.2 | 125 mm | each | 398.45 |
| | 14.31.3 | 100 mm | each | 349.70 |
| 14.32 | Providing with nece | | | |
| | 14.32.1 | 150 mm | each | 630.75 |
| | 14.32.2 | 125 mm | each | 528.55 |
| | 14.32.3 | 100 mm | each | 477.45 |
| 14.33 | | and fixing bright finished brass flush bolts with necessary ews etc. complete: | | |
| | 14.33.1 | 250 mm | each | 193.25 |
| | 14.33.2 | 150 mm | each | 168.10 |
| | 14.33.3 | 100 mm | each | 121.65 |
| 14.34 | with rubb | and fixing 150 mm bright finished floor brass door stopper er cushion, necessary brass screws etc. to suit shutter complete | each | 211.15 |
| 14.35 | Providing eyes: | and fixing bright finished brass hard drawn hooks and | | |
| | 14.35.1 | 300 mm | each | 79.05 |
| | 14.35.2 | 250 mm | each | 77.35 |
| | 14.35.3 | 200 mm | each | 72.10 |
| | 14.35.4 | 150 mm | each | 55.85 |
| | 14.35.5 | 100 mm | each | 50.05 |
| 14.36 | _ | and fixing bright finished brass fan light pivot with necessary ews etc. complete. | each | 35.25 |

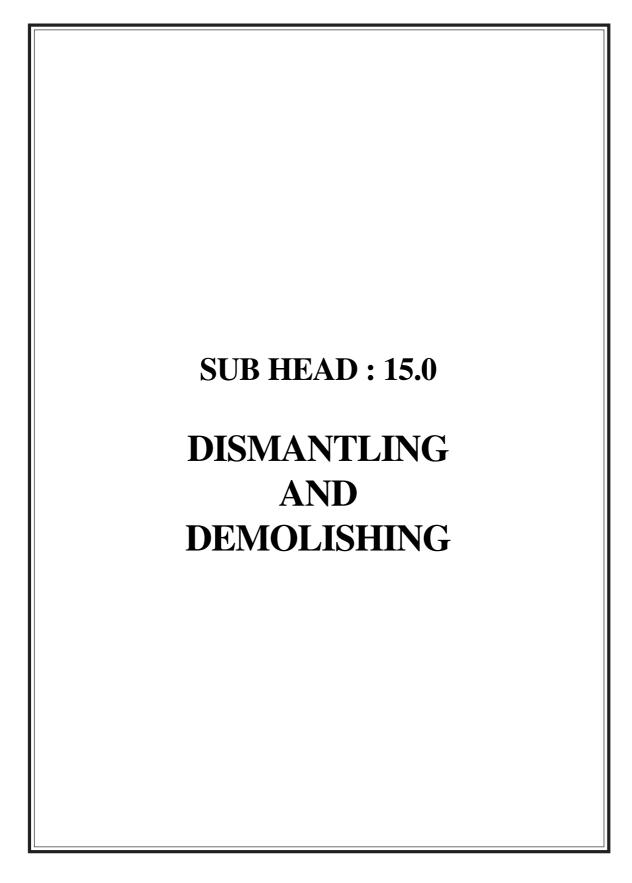
| Code No. | Description | | Unit | Rate ₹ |
|-------------|---|--|-------|-----------|
| 14.37 | Providing a hook for fa | each | 56.95 | |
| 14.38 | Providing and fixing bright finished brass quadrant stay 300 mm long with necessary brass screws etc. complete. | | | 155.65 |
| 14.39 | Providing and fixing bright finished brass helical door spring (superior quality). | | each | 404.55 |
| 14.40 | | and fixing chromium plated brass butt hinges with chromium plated brass screws etc. complete. | | |
| | 14.40.1 | 125x70x4 mm (ordinary type) | each | 156.95 |
| | 14.40.2 | 100x70x4 mm (ordinary type) | each | 128.85 |
| | 14.40.3 | 75x65x4 mm (heavy type) | each | 146.15 |
| | 14.40.4 | 75x40x2.5 mm (ordinary type) | each | 83.40 |
| | 14.40.5 | 50x40x2.5 mm (ordinary type) | each | 35.85 |
| 14.41 | with neces | and fixing 85x42 mm chromium plated brass pull bolt lock ssary chromium plated brass screws, nuts, bolts and tc. complete. | each | 205.95 |
| | FINISHING | G | | |
| 14.42 | White was | hing with lime to give an even shade : | | |
| | 14.42.1 | Old work (two or more coats) | sqm | 10.25 |
| | 14.42.2 | Old work (one or more coats) | sqm | 6.30 |
| 14.43 | and prepa | white or colour wash by scrapping and sand papering ring the surface smooth including necessary repairs to etc. complete | sqm | 8.35 |
| 14.44 | Distempering with dry distemper of approved brand and manufacture (one or more coats) and of required shade on old work to give an | | sqm | 30.05 |
| 14.45 | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade: | | | |
| | 14.45.1 | Old work (one or more coats) | sqm | 33.35 |
| 14.46 | Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete. | | sqm | 10.80 |
| 14.47 | | n G.S. sheet with synthetic enamel paint of approved manufacture of required colour to give an even shade: | | |
| | 14.47.1 | Old work (one or more coats) | sqm | 43.60 |
| 14.48 | Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture over and including a priming coat of ready mixed zinc chromate yellow primer on new work: | | | |
| | 14.48.1 | 75 mm diameter pipes | metre | 26.85 |
| 14.49 | Painting (one or more coats) on rain water, soil, waste and vent pipes and fittings with black anticorrosive bitumastic paint of approved brand and manufacture on old work: | | | |
| | 14.49.1 | 75 mm diameter pipes | metre | 13.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|----------------------------------|-----------|
| | 14.49.2 100 mm diameter pipes | metre | 17.15 |
| | 14.49.3 150 mm diameter pipes | metre | 24.60 |
| 14.50 | Painting (two or more coats) on rain water, soil, waste and pipes and fittings with aluminium paint of approved brand manufacture over a priming coat of ready mixed zinc chromate ye primer on new work: | and | |
| | 14.50.1 75 mm diameter pipes | metre | 27.60 |
| | 14.50.2 100 mm diameter pipes | metre | 38.75 |
| | 14.50.3 150 mm diameter pipes | metre | 57.75 |
| 14.51 | Painting (one or more coats) on rain water, soil, waste and pipes and fittings with synthetic enamel paint of approved branc manufacture and required colour on old work: | | |
| | 14.51.1 75 mm diameter pipes | metre | 13.55 |
| | 14.51.2 100 mm diameter pipes | metre | 17.45 |
| | 14.51.3 150 mm diameter pipes | metre | 25.00 |
| 14.52 | Painting with oil type wood preservative of approved brand manufacture: | and | |
| | 14.52.1 Old work (one or more coats) | sqm | 24.80 |
| 14.53 | Wall painting with plastic emulsion paint of approved brand manufacture to give an even shade: | and | |
| | 14.53.1 One or more coats on old work | sqm | 55.25 |
| 14.54 | Painting with synthetic enamel paint of approved brand manufacture of required colour to give an even shade: | and | |
| | 14.54.1 One or more coats on old work | sqm | 51.30 |
| 14.55 | Painting with aluminium paint of approved brand and manufactugive an even shade: | ire to | |
| | 14.55.1 One or more coats on old work | sqm | 44.40 |
| 14.56 | Painting with acid proof paint of approved brand and manufacture required colour to give an even shade: | ire of | |
| | 14.56.1 One or more coats on old work | sqm | 55.75 |
| 14.57 | Painting with black anti-corrosive bitumastic paint of approved band manufacture to give an even shade: | orand | |
| | 14.57.1 One or more coats on old work | sqm | 43.55 |
| 14.58 | French spirit polishing: | | |
| | 14.58.1 One or more coats on old work | sqm | 105.85 |
| 14.59 | Polishing on wood work with ready made wax polish of approbrand and manufacture: | oved | |
| | 14.59.1 Old work | sqm | 46.95 |
| 14.60 | Re-lettering with black Japan paint of approved brand and manufa | acture. Per letter per cm height | 1.70 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|------|-----------|
| 14.61 | | (one or more coats) with black Japan paint of approved manufacture to give an even shade. | sqm | 44.80 |
| 14.62 | | and fixing C.P. brass chain and rubber plug complete for ash basin: | | |
| | 14.62.1 | 32 mm dia | each | 62.65 |
| | 14.62.2 | 40 mm dia | each | 62.65 |
| 14.63 | made) of | ering with 1st quality acrylic washable distemper (ready approved manufacturer and of required shade and colour as per manufacturer's specification. | | |
| | 14.63.1 | One or more coats on old work | sqm | 29.80 |
| 14.64 | Finishing | walls with water proofing cement paint of required shade : | | |
| | 14.64.1 | Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litrs/10 sqm complete including cost of Priming coat. | sqm | 55.70 |
| | 14.64.2 | Old work (one or more coats @ 2.20 kg/10 sqm) complete. | sqm | 37.90 |
| 14.65 | Finishing | walls with textured exterior paint of required shade : | · | |
| | 14.65.1 | Old work (Two or more coats on existing cement paint surface applied @ 3.28 ltr/10 sqm. | sqm | 124.75 |
| | 14.65.2 | Old work (One or more coats) applied @ 1.82 ltr/10 sqm. | sqm | 76.20 |
| 14.66 | Finishing | walls with Acrylic Smooth exterior paint of required shade: | | |
| | 14.66.1 | Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface | sqm | 68.95 |
| | 14.66.2 | Old work (One or more coat applied @ 0.90 ltr/10 sqm). | sqm | 45.35 |
| 14.67 | | walls with Premium Acrylic Smooth exterior paint with dditives of required shade | | |
| | 14.67.1 | Old work (Two or more coats applied @ 1.43 ltr/ 10 sqm) | | 70.75 |
| | 44070 | over existing cement paint surface | sqm | 70.75 |
| 1100 | 14.67.2 | Old work (one or more coats applied @ 0.83 ltr/10 sqm). | sqm | 47.25 |
| 14.69 | | g with varnish of approved brand and manufacture: | | 40.05 |
| | 14.69.1 | One or more coats with copal varnish | sqm | 46.95 |
| 14.70 | 14.69.2 | One or more coats with spar varnish | sqm | 47.50 |
| 14.70 | | e polishing on wood work (one or more coat). | sqm | 79.50 |
| 14.71 | | g with flatting varnish of approved brand and manufacture ore coats on old work. | sqm | 47.20 |
| 14.72 | the exteri M.S. tube with cup clamps a platform e | and fixing double scaffolding system (cup lock type) on or side, up to seven story height made with 40 mm dia 1.5 m centre to centre, horizontal & vertical tubes joining & lock system with M.S. tubes, M.S. tube challies, M.S. and M.S. staircase system in the scaffolding for working etc. and maintaining it in a serviceable condition for the duration as approved and removing it there after .The | | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-------|-----------|
| | scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding. | sqm | 160.15 |
| | Note: - This item to be used for maintenance work judicially, necessary deduction for scaffolding in the existing item to be done. | | |
| 14.73 | Providing and fixing bright finished brass casement window fasteners or peg stays to windows/ ventilators with necessary welding and machine screws etc. complete. | kg | 420.20 |
| 14.74 | Providing and fixing 14 mm bright finished brass spring catch to steel centre hung ventilators with necessary welding and machine screws etc. complete. | each | 49.20 |
| 14.75 | Repair to plaster of thickness 12mm to 20 mm in patches of area 2.5 sqm and under, including cutting the patch in proper shape, raking out joints and preparing plastering the wall surface with white cement based polymer modified self curing mortar, including disposal of rubbish, all complete as per the direction of Engineer-In- Charge. | sqm | 368.90 |
| | ROUTINE MAINTENANCE WORK | · | |
| 14.75A | Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank, including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba, all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account) | litre | 0.20 |
| 14.76 | Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge. | each | 47.55 |
| 14.77 | Cleaning of chocked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm dia | | |
| - | for all depth. | metre | 217.80 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-------|-----------|
| 14.78 | Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- | | |
| | (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of slit and other deposits. | | |
| | (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. | | |
| | (iii) Chlorination of RCC internal surface by liquid chlorine. | | |
| | (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. | | |
| | (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge. | sqm | 40.70 |
| 14.79 | Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in- charge. | each | 182.45 |
| 14.80 | Providing & fixing White vitreous china water closet squatting pan (Indian type) along with "S" or "P" trap including dismantling of old WC seat and "S" or "P" trap at site complete with all operations including all necessary materials, labour and disposal of dismantled material i/c malba, all complete as per the direction of Engineer-in charge. | | |
| | 14.80.1 Long pattern W.C Pan of size 580x440 mm | each | 1892.80 |
| | 14.80.2 Orissa pattern W.C Pan of size 580x440 mm | each | 2127.85 |
| 14.81 | Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge. | each | 138.40 |
| 14.82 | Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge. | each | 55.45 |
| 14.83 | Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge. | sqm | 1.50 |
| 14.84 | Dismantling 15 to 40 mm dia G.l. pipe including stacking of dismantled pipes within 50 metres lead as per direction of Engineer- in-Charge. (a) Internal Work - Exposed on wall | metre | 2.00 |
| 14.85 | Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge. | each | 176.40 |



BASIC RATES (SH:15.0 DISMANTLING AND DEMOLISHING)

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|---------|-----------|
| 0038 | Tractor with ripper attachment | day | 1100.00 |
| 0039 | Tractor with trolley | day | 1250.00 |
| 0040 | Air compressor 250 cfm with two leads for pneumatic cutters / hammers | day | 1500.00 |
| 0041 | Joint cutting machine with 2-3 blades | day | 750.00 |
| 0100 | Bandhani | day | 407.00 |
| 0101 | Bhisti | day | 407.00 |
| 0103 | Blacksmith 2nd class | day | 448.00 |
| 0112 | Carpenter 2nd class | day | 448.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0116 | Fitter (grade 1) | day | 487.00 |
| 0117 | Assistant Fitter or 2nd class Fitter | day | 448.00 |
| 0123 | Mason (brick layer) 1st class | day | 487.00 |
| 0124 | Mason (brick layer) 2nd class | day | 448.00 |
| 0128 | Mate | day | 407.00 |
| 0130 | Mistry | day | 487.00 |
| 0139 | Skilled Beldar (for floor rubbing etc.) | day | 407.00 |
| 0761 | Fuel wood | quintal | 500.00 |
| 0771 | Kerosene oil | litre | 45.00 |
| 2264 | Carriage of Rubbish | cum | 103.77 |
| 9977 | Carriage | L.S. | 1.73 |
| 9988 | Carriage and sundries | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |

15.0 DISMANTLING AND DEMOLISHING

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|--------------|-----------|
| 15.1 | Demolishing lime concrete manually/ by mechanical means disposal of material within 50 metres lead as per direction of Engin in-charge. | | 348.30 |
| 15.2 | Demolishing cement concrete manually/ by mechanical me including disposal of material within 50 metres lead as per direct of Engineer - in - charge. | | |
| | 15.2.1 Nominal concrete 1:3:6 or richer mix (i/c equivalent de mix) | esign cum | 997.05 |
| | 15.2.2 Nominal concrete 1:4:8 or leaner mix (i/c equivalent de mix) | esign cum | 615.15 |
| 15.3 | Demolishing R.C.C. work manually/ by mechanical means inclust stacking of steel bars and disposal of unserviceable material w 50 metres lead as per direction of Engineer - in- charge. | | 1454.55 |
| 15.4 | Demolishing R.B. work manually/ by mechanical means inclustracking of steel bars and disposal of unserviceable material w 50 metres lead as per direction of Engineer-in- charge. | | 1300.25 |
| 15.5 | Extra for cutting reinforcement bars manually/ by mechanical mein R.C.C. or R.B. work (Payment shall be made on the creational area of R.C.C. or R.B. work) as per direction of Engin in-charge. | ross | 500.80 |
| 15.6 | Extra for scrapping, cleaning and straightening reinforcement fr R.C.C. or R.B. work. | om kg | 3.90 |
| 15.7 | Demolishing brick work manually/ by mechanical means inclustracking of serviceable material and disposal of unserviceable matwithin 50 metres lead as per direction of Engineer-in-charge. | | |
| | 15.7.1 In mud mortar | cum | 288.45 |
| | 15.7.2 In lime mortar with old mughal bricks | cum | 728.70 |
| | 15.7.3 In lime mortar | cum | 348.30 |
| | 15.7.4 In cement mortar | cum | 842.75 |
| 15.8 | Removing mortar from bricks and cleaning bricks including stac within a lead of 50 m (stacks of cleaned bricks shall be measur | • | |
| | 15.8.1 From brick work in mud mortar | 1000 nos | 1921.50 |
| | 15.8.2 From brick work in lime mortar | 1000 nos | 2229.55 |
| | 15.8.3 From brick work in cement mortar | 1000 nos | 2798.60 |
| 15.9 | Demolishing stone rubble masonry manually/ by mechanical me including stacking of serviceable material and disposa unserviceable material within 50 metres lead as per directio Engineer-in-charge: | ıl of | |
| | 15.9.1 In lime mortar | cum | 474.10 |
| | 15.9.2 In cement mortar | cum | 1005.70 |

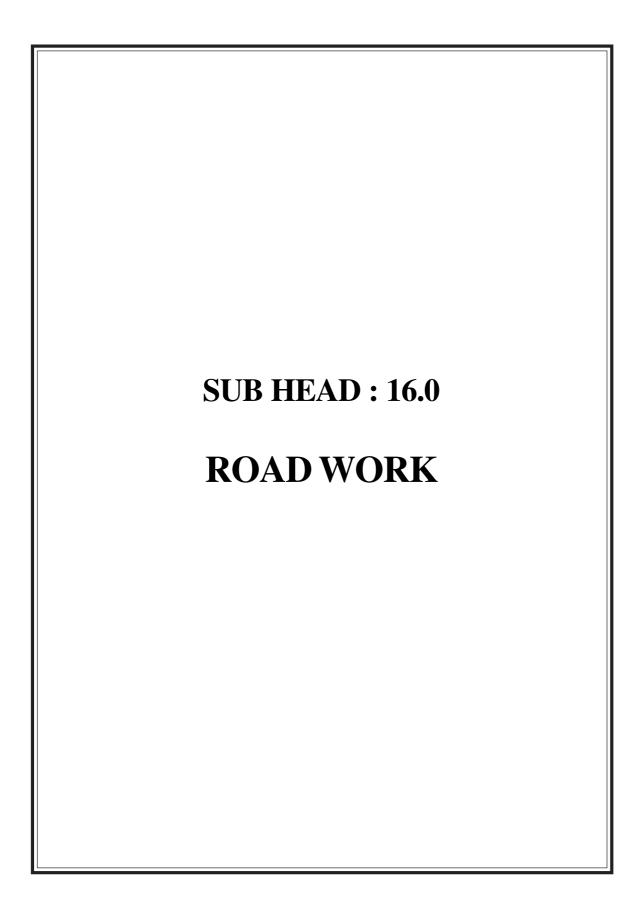
| Code No. | Description | Unit | Rate ₹ |
|-------------|--|---------------------------|-----------|
| 15.10 | Dismantling dressed stone work ashlar face stone work, marble work or precast concrete work manually/ by mechanical means including stacking of serviceable and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge: | | |
| | 15.10.1 In lime mortar | cum | 599.60 |
| | 15.10.2 In cement mortar | cum | 1176.65 |
| 15.11 | Removing mortar from and cleaning stones and concrete articles (net quantity of stacks of cleaned materials will be measured): | | |
| | 15.11.1 In lime mortar | cum | 198.05 |
| | 15.11.2 In cement mortar | cum | 284.30 |
| 15.12 | Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead: | | |
| | 15.12.1 Of area 3 sq. metres and below | each | 157.85 |
| | 15.12.2 Of area beyond 3 sq. metres | each | 216.40 |
| 15.13 | Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead: | | |
| | 15.13.1 Of area 3 sq. metres and below | each | 61.25 |
| | 15.13.2 Of area beyond 3 sq. metres | each | 81.00 |
| 15.14 | Dismantling wood work in frames, trusses, purlins and rafters up to 10 metres span and 5 metres height including stacking the material within 50 metres lead: | | |
| | 15.14.1 Of sectional area 40 square centimetres and above | cum | 1922.45 |
| | 15.14.2 Of sectional area below 40 square centimetres | metre | 7.70 |
| 15.15 | Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional span of one metre or part thereof beyond 10 metres: | | |
| | 15.15.1 Of sectional area 40 square centimetres and above | Cum per metre span | 259.20 |
| | 15.15.2 Of sectional area below 40 square centimetres | Metre per metre span | 0.75 |
| 15.16 | Extra for dismantling trusses, rafters, purlins etc. of wood work for every additional height of one metre or part thereof beyond 5 metres: | | |
| | 15.16.1 Of sectional area 40 square centimetres and above | Cum per metre height | 370.70 |
| | 15.16.2 Of sectional area below 40 square centimetres | Metre per metre height | 1.45 |
| 15.17 | Dismantling steel work in single sections including dismembering and stacking within 50 metres lead in: | | |
| | 15.17.1 R.S. Joists | kg | 1.40 |
| | 15.17.2 Channels, angles, tees and flats | kg | 0.95 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|---------------------------|-----------|
| 15.18 | Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead. | kg | 2.40 |
| 15.19 | Dismantling steel work manually/ by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge. | kg | 1.60 |
| 15.20 | Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional span of one metre or part thereof beyond 10 metres | Kg per metre span | 0.35 |
| 15.21 | Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres. | Kg per metre height | 0.35 |
| 15.22 | Extra for marking of structural steel work required to be re-erected. | kg | 2.00 |
| 15.23 | Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. | | |
| | 15.23.1 For thickness of tiles 10 mm to 25 mm | sqm | 31.55 |
| | 15.23.2 For thickness of tiles above 25 mm and up to 40 mm | sqm | 49.20 |
| 15.24 | Demolishing dry brick pitching in floors, drains etc. including stacking serviceable material and disposal of unserviceable material within 50 metres lead: | cum | 539.80 |
| 15.25 | Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead. | sqm | 109.35 |
| 15.26 | Demolishing brick tile covering in terracing including stacking of serviceable material and disposal of unserviceable material within 50 metres lead. | sqm | 45.70 |
| 15.27 | Demolishing mud phaska in terracing and disposal of material within 50 metres lead. | cum | 373.95 |
| 15.28 | Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of: | | |
| | 15.28.1 G.S. Sheet | sqm | 70.10 |
| | 15.28.2 Asbestos sheet | sqm | 32.85 |
| 15.29 | Dismantling stone slab roofing over wooden karries or R.C.C. battens (dismantling karries and battens to be paid for separately), including stacking of serviceable material and disposal of unserviceable material within 50 metres lead. | cum | 1093.30 |
| 15.30 | Dismantling jack arch roofing and floors including stacking of serviceable material and disposal of unserviceable material within 50 metres lead. | sqm | 104.20 |
| 15.31 | Dismantling tiled roofing with battens, boarding etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead. | sqm | 86.25 |
| 15.32 | Demolishing thatch roofing including mats, bamboo, jaffari etc. complete including stacking of serviceable material and disposal of unserviceable material within 50 metres lead. | sqm | 23.80 |
| | | | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-------|-----------|
| 15.33 | Dismantling wooden ballies in posts and struts including stacking within 50 metres lead. | metre | 8.55 |
| 15.34 | Dismantling and stacking within 50 metres lead, fencing posts or struts including all earth work and dismantling of concrete etc. in base of: | | |
| | 15.34.1 T' or 'L' iron or pipe | each | 104.65 |
| | 15.34.2 R.C.C. | each | 116.20 |
| 15.35 | Cutting ballies or wooden posts of fencing at the point of projection above the concrete or ground and stacking the same within 50 metres lead. | each | 8.35 |
| 15.36 | Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead. | kg | 15.05 |
| 15.37 | Dismantling wooden trellis work excluding frames but including stacking the serviceable material within 50 metres lead. | sqm | 27.10 |
| 15.38 | Dismantling expanded metal or I.R.C. fabrics with necessary battens and beading including stacking the serviceable material within 50 metres lead. | sqm | 31.70 |
| 15.39 | Dismantling wooden boardings in lining of walls and partitions, excluding supporting members but including stacking within 50 metres lead: | | |
| | 15.39.1 Up to 10 mm thick | sqm | 25.95 |
| | 15.39.2 Thickness above 10 mm up to 25 mm | sqm | 33.15 |
| | 15.39.3 Thickness above 25 mm up to 40 mm | sqm | 38.75 |
| 15.40 | Dismantling precast concrete or stone slabs in walls, partition walls etc. including stacking within 50 metres lead: | | |
| | 15.40.1 Thickness up to 40 mm | sqm | 119.95 |
| | 15.40.2 Thickness above 40 mm up to 75 mm | sqm | 179.70 |
| 15.41 | Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead. | sqm | 24.30 |
| 15.42 | Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead: | | |
| | 15.42.1 75 to 80 mm dia pipe | metre | 30.95 |
| | 15.42.2 100 mm dia pipe | metre | 31.95 |
| | 15.42.3 150 mm dia pipe | metre | 32.90 |
| 15.43 | Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge: | | |
| | 15.43.1 Water bound macadam road | sqm | 90.50 |
| | 15.43.2 bituminous road | sqm | 177.00 |
| | | | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-------|-----------|
| 15.44 | Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge: | | |
| | 15.44.1 15 mm to 40 mm nominal bore | metre | 63.65 |
| | 15.44.2 Above 40 mm nominal bore | metre | 70.85 |
| 15.45 | Dismantling C.I. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metre lead as per direction of Engineer-in-charge: | | |
| | 15.45.1 Up to 150 mm diameter | metre | 183.05 |
| | 15.45.2 Above 150 mm dia up to 300 mm dia | metre | 242.05 |
| | 15.45.3 Above 300 mm diameter | metre | 314.40 |
| 15.46 | Dismantling steel cylinder R.C. pipes including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes & lead at site within 50 metres lead as per direction of Engineer-in-charge: | | |
| | 15.46.1 Up to 600 mm diameter | metre | 299.10 |
| | 15.46.2 Above 600 mm diameter | metre | 752.85 |
| 15.47 | Dismantling asbestos cement pressure pipes including excavation and refilling trenches after taking out the pipes manually/ by mechanical means and stacking the pipes within 50 metres lead as per direction of Engineer-in-charge: | | |
| | 15.47.1 Up to 150 mm diameter | metre | 135.70 |
| | 15.47.2 Above 150 mm diameter | metre | 164.80 |
| 15.48 | Taking out C.I. cover with frame from R.C.C. top slab of manholes of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge. | each | 290.55 |
| 15.49 | Taking out C.I. cover with frame from R.C.C. top slab of inspection chambers of various sizes including demolishing of R.C.C. work manually/ by mechanical means and stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge. | each | 170.15 |
| 15.50 | Dismantling of R.C.C. spun vent shaft including excavating the | Juon | 1,0.10 |
| 10.00 | cement concrete pit completely, taking out the shaft, refilling the excavated gap, stacking the useful materials near the site and disposal of unserviceable materials within 50 metres lead. | each | 1947.25 |
| 15.51 | Dismantling of road gully chamber of various sizes including C.I. grating with frame including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead including refilling the excavated gap. | each | 397.15 |
| | | | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|------|-----------|
| 15.52 | Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead. | each | 391.20 |
| 15.53 | Dismantling of C.I. sluice valve including stacking of useful materials within a lead of 50 metres | | |
| | 15.53.1 Up to 150 mm diameter | each | 141.15 |
| | 15.53.2 Above 150 mm diameter | each | 507.45 |
| 15.54 | Dismantling of spindle fire hydrant including stacking of useful materials within 50 metres lead. | each | 307.85 |
| 15.55 | Dismantling of cement concrete platform along with curtain walls and base concrete etc. including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead: | | |
| | 15.55.1 120 x 120 cm (outside to outside) | each | 451.65 |
| | 15.55.2 210 x 120 cm (outside to outside) | each | 692.85 |
| | 15.55.3 320 x 120 cm (outside to outside) | each | 980.55 |
| 15.56 | Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead. | sqm | 22.40 |
| 15.57 | Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge. | sqm | 24.30 |
| 15.58 | Demolishing R.C.C. work by mechanical means and stockpiling at designated locations and disposal of dismantled materials up to a lead of 1 kilometre, stacking serviceable and unserviceable material separately including cutting reinforcement bars. | cum | 1337.40 |
| 15.59 | Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge. | cum | 204.50 |
| 15.60 | Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads | | |
| | including all lifts involved. | cum | 120.55 |



BASIC RATES (SH: 16.0 ROAD WORK)

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|----------|-----------|
| 0001 | Hire charges of Coaltar Boiler 900 to 1400 litres | day | 800.00 |
| 0002 | Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper | day | 800.00 |
| 0003 | Hire charges of Diesel Road Roller - 8 to 10 tonne | day | 2200.00 |
| 0004 | Production cost of concrete by batch mix plant | cum | 400.00 |
| 0007 | Hire charges of Coaltar Sprayer | day | 250.00 |
| 8000 | Hire charges of Barber green, drying, mixing and asphalt plant, with accessories, capacity 30/45 tonne | day | 7700.00 |
| 0009 | Pumping charges of concrete including Hire charges of pump, piping work & accessories etc. | cum | 200.00 |
| 0012 | Vibrator (Needle type 40 mm) | day | 350.00 |
| 0013 | Machine for rubbing of floors | day | 350.00 |
| 0014 | Front end loader capacity 1.00 cum | day | 6000.00 |
| 0016 | Mastic cooker | day | 750.00 |
| 0017 | Hire and running charges of tipper | day | 1800.00 |
| 0018 | Hire and running charges of loader | day | 6000.00 |
| 0021 | Pin vibrator | day | 250.00 |
| 0022 | Surface Vibrator | day | 250.00 |
| 0023 | Hot Bitumen Mixer 0.5 cum i/c hand cart | day | 3500.00 |
| 0029 | Carriage of concrete by transit mixer | km/cum | 23.00 |
| 0030 | Generator 250 KVA | day | 2500.00 |
| 0033 | Paint applicator | day | 800.00 |
| 0038 | Tractor with ripper attachment | day | 1100.00 |
| 0041 | Joint cutting machine with 2,3 blades | day | 750.00 |
| 0042 | CC batch mix plant | day | 10000.00 |
| 0043 | Road sweeper | day | 550.00 |
| 0045 | Slip form paver with sensor | day | 13000.00 |
| 0046 | Water tanker 5000 litre | day | 1100.00 |
| 0047 | Concrete joint cutting machine | day | 900.00 |
| 0048 | Texturing machine | day | 925.00 |
| 0049 | Dozer D-80-A12 | hour | 2000.00 |
| 0050 | Motor Grader 3.35 metre blade | hour | 2100.00 |
| 0051 | Hydraulic Excavator of 1 cum bucket | hour | 800.00 |
| 0052 | Front end loader 1 cum bucket capacity (incl POL) | hour | 800.00 |
| 0053 | Tipper-5 Cum | tonne km | 3.00 |
| 0054 | Vibratory roller 8 to 10 tonne | hour | 650.00 |
| 0055 | Smooth Wheeled Roller 8 to 10 tonne | hour | 200.00 |
| 0056 | Tandem Road Roller | hour | 1150.00 |
| 0057 | Water Tanker 5 to 6 KL capacity | hour | 200.00 |
| 0058 | Air compressor | hour | 200.00 |
| 0059 | Wet Mix Plant 60 TPH | hour | 750.00 |
| 0060 | Mechanical Broom hydraulic | hour | 200.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|----------|-----------|
| 0061 | Emulsion Pressure Distributor @ 1750 sqm per hour | hour | 800.00 |
| 0062 | Hot mix Plant -120 TPH capacity | hour | 15000.00 |
| 0063 | Hot mix Plant 100 TPH Capacity | hour | 13000.00 |
| 0064 | Paver finisher Hydrostatic with sensor control 100 TPH | hour | 1500.00 |
| 0065 | Paver finisher Mechanical 100 TPH | hour | 700.00 |
| 0066 | Batching and Mixing Plant @ 75 cum per hour | hour | 2500.00 |
| 0068 | Concrete paver finisher with 40 HP motor and sensor | hour | 2500.00 |
| 0069 | Generator 250 KVA | hour | 400.00 |
| 0070 | Generator 100 KVA/125 KVA | hour | 300.00 |
| 0071 | Truck 5.5 cum/10tonne | tonne km | 3.00 |
| 0075 | Road sweeper (Mechamical Broom) @ 1250 sqm per hour | hour | 300.00 |
| 0076 | Drum Type HMP of 60-90 TPH capacity @ 75 tonne per hour actual output | hour | 11000.00 |
| 0083 | Hire charges of TATA 407 or equivalent for local shifting. | day | 1400.00 |
| 0100 | Bandhani | day | 407.00 |
| 0101 | Bhisti | day | 407.00 |
| 0102 | Blacksmith 1st class | day | 487.00 |
| 0103 | Blacksmith 2nd class | day | 448.00 |
| 0113 | Chowkidar | day | 368.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0116 | Fitter (grade 1) | day | 487.00 |
| 0123 | Mason (brick layer) 1st class | day | 487.00 |
| 0124 | Mason (brick layer) 2nd class | day | 448.00 |
| 0125 | Mason (for plain stone work) 2nd class | day | 448.00 |
| 0126 | Mason (for ornamental stone work) 1st class | day | 487.00 |
| 0128 | Mate | day | 407.00 |
| 0130 | Mistry | day | 487.00 |
| 0131 | Painter | day | 448.00 |
| 0138 | Sprayer (for bitumen, tar etc.) | day | 407.00 |
| 0139 | Skilled Beldar (for floor rubbing etc.) | day | 407.00 |
| 0155 | Mason (average) | day | 467.00 |
| 0157 | Operator (Pile/ Special machine) | day | 487.00 |
| 0286 | Brick Aggregate (Single size): 50 mm nominal size | cum | 750.00 |
| 0287 | Brick Aggregate (Single size): 40 mm nominal size | cum | 750.00 |
| 0291 | Stone Aggregate (Single size): 63 mm nominal size | cum | 1150.00 |
| 0292 | Stone Aggregate (Single size): 50 mm nominal size | cum | 1150.00 |
| 0293 | Stone Aggregate (Single size): 40 mm nominal size | cum | 1250.00 |
| 0294 | Stone Aggregate (Single size): 25 mm nominal size | cum | 1250.00 |
| 0295 | Stone Aggregate (Single size): 20 mm nominal size | cum | 1300.00 |
| 0296 | Stone Aggregate (Single size): 12.5 mm nominal size | cum | 1300.00 |
| 0297 | Stone Aggregate (Single size): 10 mm nominal size | cum | 1300.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|----------|-----------|
| 0298 | Stone Aggregate (Single size): 06 mm nominal size | cum | 1300.00 |
| 0304 | Bajri | cum | 1200.00 |
| 0309 | Paving bitumen of grade VG-10 of approved quality | tonne | 29600.00 |
| 0310 | Bitumen emulsion | tonne | 26395.00 |
| 0312 | Bitumen grade PMB - 40 | tonne | 38550.00 |
| 0313 | Blown type petroleum bitumen of penetration 85/25 of approved quality | tonne | 34561.00 |
| 0314 | Bitumen hot sealing compound : grade A | kilogram | 28.00 |
| 0316 | Bitumen solution primer of approved quality | litre | 50.00 |
| 0317 | Premoulded joint filler 12 mm thick | sqm | 303.00 |
| 0323 | seperation membrane of impermeable plastic sheeting 125 micron t | hick sqm | 12.00 |
| 0349 | Curing compound | litre | 30.00 |
| 0364 | Wire brush | each | 20.00 |
| 0365 | Soft brush | each | 18.00 |
| 0367 | Portland Cement (OPC-43 grade) | tonne | 5700.00 |
| 0369 | Plastic sheath, 1.25 mm thick for dowel bars | sqm | 30.00 |
| 0370 | Coal (steam) | quintal | 400.00 |
| 0371 | Sealant primer | kilogram | 125.00 |
| 0374 | Pre moulded joint filler, 25 mm thick for expansion joint | sqm | 450.00 |
| 0588 | Chromium plated Brass screws 25 mm | 100 Nos | 190.00 |
| 0773 | Unslaked lime | quintal | 270.00 |
| 0777 | Dry hydrated lime (factory made) | quintal | 280.00 |
| 0784 | Marble dust/ powder | cum | 1000.00 |
| 0810 | Moorum | cum | 450.00 |
| 0979 | Royalty for good earth | cum | 30.00 |
| 0982 | Coarse sand (zone III) | cum | 1200.00 |
| 0983 | Fine sand (zone IV) | cum | 760.00 |
| 1003 | Mild steel round bar above 12 mm dia | quintal | 3575.00 |
| 1005 | Twisted steel/deformed TMT bars Fe-500D | quintal | 3730.00 |
| 1007 | Structural steel such as tees, angles channels and R.S. joists | quintal | 3775.00 |
| 1008 | Flats up to 10 mm in thickness | quintal | 3675.00 |
| 1013 | Mild steel sheets of 1.00 mm thickness for tanks | quintal | 3775.00 |
| 1021 | Hard drawn steel wire fabric size 75 X 25 mm mesh of weight not less than 7.75 kg/sq.m | sqm | 400.00 |
| 1028 | Straining bolts | each | 65.00 |
| 1029 | Galvanised steel barbed wire of weight 9.8kg/100m | quintal | 4800.00 |
| 1030 | Galvanised steel turn buckles | each | 15.00 |
| 1151 | Boundary stone top chisel dressed 15x15x90 cm | each | 70.00 |
| 1158 | Stone for pitching 15 cm x 22.5 cm | cum | 636.00 |
| 1159 | Stone for pitching 13 cm x 22.5 cm | | 865.00 |
| 1179 | Crushed stone 2.36 mm to 12.5 mm size | cum | |
| | | cum | 900.00 |
| 1215 | Welding by electric plant | cm | 2.00 |
| 1235 | Diesel | litre | 46.55 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|----------|-----------|
| 1241 | Commercial LPG in cylinder | kg | 65.00 |
| 1980 | Fly ash | cum | 8.00 |
| 2200 | Carriage of Steam coal | tonne | 118.59 |
| 2201 | Carriage of Bricks | 1000 Nos | 276.72 |
| 2202 | Carriage of Stone aggregate below 40 mm nominal size | cum | 103.77 |
| 2203 | Carriage of Coarse sand | cum | 103.77 |
| 2205 | Carriage of Steel | tonne | 92.24 |
| 2206 | Carriage of Stone aggregate 40 mm nominal size and above | cum | 112.79 |
| 2208 | Carriage of Lime | cum | 103.77 |
| 2209 | Carriage of Cement | tonne | 92.24 |
| 2211 | Carriage of Tar / Bitumen | tonne | 103.77 |
| 2215 | Carriage of Soling stone & masonry stone | cum | 122.08 |
| 2216 | Carriage of Stone blocks white & red sand stone & kota stone slab | tonne | 92.24 |
| 2241 | Carriage of Good earth | cum | 129.71 |
| 2260 | Carriage of Brick aggregate | cum | 112.79 |
| 2261 | Carriage of Fine sand (1 part badarpur sand: 2 parts jamuna sand) | cum | 103.77 |
| 2265 | Carriage of Moorum | cum | 103.77 |
| 2266 | Carriage of Surkhi | cum | 103.77 |
| 2267 | Carriage of Stone dust | cum | 103.77 |
| 2302 | Carriage of G.I. sheet and accessories | tonne | 92.24 |
| 2311 | Carriage of Red bajri | cum | 103.77 |
| 2314 | Carriage of Barbed wire | tonne | 92.24 |
| 2335 | Carriage of Jamuna sand | cum | 103.77 |
| 2342 | Carriage of Solvent / Diesel. | quintal | 10.38 |
| 2602 | Common burnt clay F.P.S. (non modular) bricks class designation 7.5 | 1000 Nos | 4500.00 |
| 2704 | Aluminium Strip 40 mm wide and 2 mm thick | kilogram | 225.00 |
| 2901 | Stone Aggregate (Single size): 100 mm nominal size | cum | 1000.00 |
| 2902 | Stone Aggregate (Single size): 80 mm nominal size | cum | 1000.00 |
| 2903 | Stone chippings/ screenings 4.75 mm nominal size | cum | 1150.00 |
| 2904 | Stone chippings/ screenings 150 micron nominal size | cum | 1150.00 |
| 2908 | Over burnt (Jhama) Brick Aggregate: 120 mm to 40 mm size | cum | 450.00 |
| 2909 | Over burnt (Jhama) Brick Aggregate: 90 mm to 40 mm size | cum | 470.00 |
| 2910 | Stone chippings/ screenings 12.5/ 13.2 mm nominal size | cum | 1200.00 |
| 2911 | Stone chippings/ screenings 10/ 11.2 mm nominal size | cum | 1200.00 |
| 2914 | Solvent | kilogram | 25.00 |
| 2916 | Paving Asphalt VG 10 of approved quality | tonne | 29600.00 |
| 5001 | Mobile oil | litre | 245.00 |
| 6501 | Sand zone V (Jamuna) | cum | 600.00 |
| 7254 | Hardening compound | litre | 40.00 |
| 7255 | Road marking paint (spirit based) | litre | 120.00 |
| 7256 | Superior quality road marking paint (water based) | litre | 140.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|----------|-----------|
| 7280 | Waste plastic additive | tonne | 40000.00 |
| 7295 | Granite of any colour, 18 mm thick (slab area upto 0.50 sqm) | sqm | 1750.00 |
| 7296 | Granite of any colour, 30 mm thick (slab area upto 0.50 sqm) | sqm | 2000.00 |
| 7309 | Paving Asphalt of grade VG-30 of approved quality | tonne | 30516.00 |
| 7318 | Plasticizer / super plasticizer | kilogram | 38.00 |
| 7382 | Bitumen emulsion rapid setting (R.S.) confirming to IS: 8887 | tonne | 25425.00 |
| 7426 | Cat's eye | each | 105.00 |
| 7739 | Modified Bitumen Refinery produced CRMB - 55 | tonne | 33548.00 |
| 7741 | Modified Bitumen Refinery produced CRMB - 60 | tonne | 34006.00 |
| 7742 | Bitumen emulsion medium setting (M.S.) confirming to IS: 8887 | tonne | 25654.00 |
| 7753 | Boulder 50 mm to 200 mm | cum | 700.00 |
| 7773 | Coloured inter locking C.C. paver Block (60mm thick, M-35) | sqm | 500.00 |
| 7774 | Granite Stone size 10x10x7.50cm | each | 9.00 |
| 7893 | Tactile tile | sqm | 900.00 |
| 7895 | Matt finished vitrified tile 100x100 x16 mm | sqm | 377.00 |
| 7896 | Vitrified tile | sqm | 309.00 |
| 8576 | Crates made of Mesh type $10x12$ (D=100 mm) Zn coated. (Mesh wire diameter 3.00 mm). | sqm | 190.00 |
| 8577 | Crates made of Mesh type 10x12 (D=100 mm) Zn+PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD). | sqm | 220.00 |
| 8578 | Crates made of Mesh type 10x12 (D=100 mm) Zn+10% Al alloy + PVC coated. Mesh wire diameter 2.70/3.70 mm (ID/OD). | sqm | 290.00 |
| 8685 | Delineator | each | 275.00 |
| 8686 | Precast C.C. Kerb stone M - 25 | cum | 3800.00 |
| 8687 | Thermoplastic paint | kg | 47.00 |
| 8688 | Glass beads | kg | 60.00 |
| 8689 | Interlocking C.C. paver block (60 mm thick, M-30) | sqm | 350.00 |
| 8690 | High intensity retro - reflective sheet | sqm | 1525.00 |
| 8691 | Punched tape concertina coil 600 mm dia 10 m openable length (Total length 90 m) | bundle | 675.00 |
| 8692 | RBT reinforced barbed wire | metre | 7.00 |
| 8693 | Turn buckle and strengthening bolt | each set | 40.00 |
| 8694 | Precast pavement slab 450 x 450 x 50 mm (M - 30) | each | 70.00 |
| 8695 | Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm | sqm | 258.00 |
| 8696 | Chain link fabric fencing mesh of size 50x50 mm made of G.I. wire of dia 4 mm, PVC coated to outer dia 5 mm | sqm | 285.00 |
| 8697 | Chain link fabric fencing mesh of size 25x25 mm made of G.I. wire of dia 3 mm | sqm | 285.00 |
| 8785 | Interlocking C.C. paver block (80 mm thick, M-30) | sqm | 370.00 |
| 9977 | Carriage | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |

16.0 ROAD WORK

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|--|-------|-----------|
| | ROADS | | | |
| 16.1 | 8 to 12 to cm dept including | tion and consolidation of sub grade with power road roller of onne capacity after excavating earth to an average of 22.5 h, dressing to camber and consolidating with road roller g making good the undulations etc. and re-rolling the sub and disposal of surplus earth with lead upto 50 metres. | sqm | 90.10 |
| 16.2 | moisture | compaction of earth work in embankment under optimum conditions to give at least 95% of the maximum dry density density). | cum | 10.70 |
| 16.3 | Supplyir | ng and stacking at site. | | |
| | 16.3.1 | 90 mm to 45 mm size stone aggregate | cum | 1336.05 |
| | 16.3.2 | 63 mm to 45 mm size stone aggregate | cum | 1449.30 |
| | 16.3.3 | 53 mm to 22.4 mm size stone aggregate | cum | 1542.25 |
| | 16.3.4 | Over burnt (Jhama) brick aggregate 120 mm to 40 mm | cum | 653.70 |
| | 16.3.5 | Over burnt (Jhama) brick aggregate 90 mm to 45 mm | cum | 676.90 |
| | 16.3.6 | Stone screening 13.2 mm nominal size (Type A) | cum | 1505.60 |
| | 16.3.7 | Stone screening 11.2 mm nominal size (Type B) | cum | 1462.05 |
| | 16.3.8 | Red bajri | cum | 1514.35 |
| | 16.3.9 | Good earth | cum | 332.55 |
| | 16.3.10 | Moorum | cum | 643.20 |
| 16.4 | to WBM with 3 wh proper g screenin | spreading and compacting stone aggregate of specified sizes specifications in uniform thickness, hand picking, rolling neeled road / vibratory roller 8-10 tonne capacity in stages to rade and camber, applying and brooming requisite type of g / binding material to fill up interstices of coarse aggregate, g and compacting to the required density. | cum | 449.10 |
| 16.5 | material, and cons | ater bound macadam sub-base with brick aggregate and binding earth etc. including screening, sorting and spreading to template solidation with light power road-roller etc. complete.(payment aggregate and moorum etc. to be made separately) | | |
| | 16.5.1 | Over burnt (Jhama) brick aggregate 120 mm to 40 mm | cum | 363.25 |
| | 16.5.2 | Over burnt (Jhama) brick aggregate 90 mm to 45 mm | cum | 363.25 |
| 16.6 | | ng, stacking and Spreading 6 mm thick red bajri, watering ng complete including preparation of the surface and rolling. | | |
| | 16.6.1 | With road roller/ hand roller | sqm | 15.55 |
| 16.7 | | dging in full brick width and half brick depth including on, refilling and disposal of surplus earth lead upto 50 metres. | | |
| | 16.7.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | metre | 127.60 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|----------|-----------|
| 16.8 | _ | ing laid lengthwise with half brick depth including excavation, and disposal of surplus earth lead upto 50 metres: | | |
| | 16.8.1 class des | With common burnt clay F.P.S. (non modular) bricks of signation 7.5 | metre | 36.20 |
| 16.9 | Scarifying metalled (water-bound) road surface including disposal of rubbish, lead upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonne capacity. | | sqm | 14.45 |
| 16.10 | laying br blinding r | Making bajri path including preparation of subgrade, supplying and laying brick aggregate of 50 mm nominal size 7.5 cm deep with blinding material consisting of 12 mm moorum and 12 mm red bajri consolidated with road roller. | | 142.50 |
| 16.11 | | e pitching 22.5 cm thick including supply of stones and g surface complete. | sqm | 499.65 |
| 16.12 | • | pitching half brick thick in drains including supply of bricks aring the surface complete: | | |
| | 16.12.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | sqm | 447.45 |
| 16.13 | quantitie | oad and making good the same including supply of extra s of materials i.e. aggregate, moorum screening, red bajri ur required. | | |
| | 16.13.1 | bituminous portion | cum | 2384.05 |
| | 16.13.2 | Water bound macadam | cum | 1407.15 |
| 16.14 | _ | ajri paths and making good the same including supply of antities of brick aggregate, moorum and red bajri required. | sqm | 134.55 |
| | FENCINO | 3 | | |
| 16.15 | Supplyin | g at site: | | |
| | 16.15.1 | R.C.C. Standards post/ struts/rails/ pales of mix 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 12.5 mm nominal size) with wooden plugs or 6mm bar nibs wherever required as per direction of Engineer-incharge (cost of earth works in excavation, concrete works in foundation to be paid separately). | cum | 19774.55 |
| | 16.15.2 | Welded steel wire fabric of required width having rectangular mesh painted with two or more coats of enamel paint of approved shade over a coat of primer (Priming & Painting to be paid for separately). | kg | 60.05 |
| 16.16 | Supplying fencing. | g and fixing turn buckles and straining bolts for barbed wire | each set | 150.45 |
| 16.17 | 11,00 | | | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|--------------------------------|-----------|
| | (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately):- Payment to be made per metre cost of total length of barbed wire used. | | |
| | 16.17.1 With G.I. barbed wire | metre | 8.25 |
| 16.18 | Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used. | | |
| | 16.18.1 With G.I. barbed wire | metre | 12.65 |
| 16.19 | Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete. | kg | 62.05 |
| 16.20 | Welded steel wire fabric fencing with posts of specified material and of standard design placed and embedded in cement concrete blocks 45x45x 60 cm of mix 1:5:10 (1 cement:5 fine sand: 10 graded stone aggregate 40 mm nominal size), every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and struts embedded in cement concrete blocks 70x45x50 cm of the same mix, provided with welded steel wire fabric fixed between the posts fitted and fixed with G.I. staples on wooden plugs or tied to 6 mm bar nibs with G.I. binding wire (cost of posts, welded steel wire fabric, painting, earth work in excavation and concrete to be paid for separately). | Sqm | 30.65 |
| | ROAD SIGNS | | |
| 16.21 | Engraving letters in hard stone | per cm height per letter | 4.75 |
| 16.22 | Providing and fixing 15x15x90 cm boundary stone of hard stone with top 30 cm chisel dressed on all four sides including top (cost of excavation, refilling and concrete etc. to be paid for separately). | each | 140.95 |
| 16.23 | Providing and fixing 15 cm dia at top, 20 cm at bottom and 90 cm high precast reinforced cement concrete 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) boundary stone as per standard design, including finishing smooth with cement mortar 1:3 (1 cement : 3 fine sand) (cost of excavation, refilling and concreting to be paid for separately). | each | 459.10 |
| 16.24 | Providing and fixing precast reinforced cement concrete 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size) kilometre stone as per standard design, including finishing smooth in 1:3 cement mortar (1 cement: 3 fine sand) but excluding the cost of earth work, concrete in foundation, painting and lettering etc. which shall be paid for separately. | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|------|-----------|
| | 16.24.1 35x111x25 c | m size | each | 1740.85 |
| | 16.24.2 50x152.5x25 | cm size | each | 3196.40 |
| | 16.24.3 35x93.5x18 | cm size | each | 1172.55 |
| | SURFACE DRESSING | | | |
| 16.25 | 10 of approved quality ucum of stone chippings | v surface with paving bitumen of grade VG - using 2.25 kg of bitumen per sqm with 1.65 13.2 mm nominal size per 100 sqm of road olidation with road roller of 6 to 8 tonne | sqm | 139.60 |
| 16.26 | VG -10 of approved qua cum of stone chippings surface for first coat and metre of stone chipping road surface for second | v surface in two coats with bitumen of grade lity using 1.8 kg of bitumen per sqm with 1.5 13.2 mm nominal size per 100 sqm of road d 1.1 kg. of bitumen per sqm with 1.00 cu. gs 11.2 mm nominal size per 100 sqm of coat, including consolidation of each coat ler of 6 to 8 tonne capacity etc. complete. | Sqm | 191.70 |
| 16.27 | approved quality using 1 stone chippings 11.2 mn | surface with hot bitumen of grade VG - 10 of .95 kg of bitumen per sqm with 1.50 cum of n nominal size per 100 sqm of road surface, with road roller of 6 to 8 tonne capacity, etc. | sqm | 112.75 |
| 16.28 | Surface dressing one co grade at a rate of 1.95 k chippings 13.2 mm nomir | at on new surface with bitumen of specified g/sqm of surface area with 1.5 cum of stone hal size per 100 sqm of road surface, including oller of 6 to 8 tonne capacity, etc. complete: | -1 | |
| | | n emulsion (minimum 50% bitumen content- nforming to IS : 8887) | sqm | 114.10 |
| 16.29 | grade at the rate of 1.22 stone chippings 11.2 mn | pat on old surface with bitumen of specified 2 kg/ sqm of surface area with 1.10 cum of n nominal size per 100 sqm of road surface, with road roller of 6 to 8 tonne capacity etc. | | |
| | _ | n emulsion (minimum 50% bitumen content- nforming to IS : 8887) | sqm | 72.95 |
| | PREMIX CARPET | | | |
| 16.30 | grade VG - 10, including with mechanically open | tack coat using hot straight run bitumen of heating the bitumen, spraying the bitumen rated spray unit fitted on bitumen boiler, ing the existing road surface as per | | |
| | 16.30.1 On W.B.M. @ | ⊋ 0.75 Kg l sqm | sqm | 36.40 |
| | 16.30.2 On bituminou | us surface @ 0.50 Kg I sqm | sqm | 27.50 |
| 16.31 | | ack coat using bitumen emulsion conforming ion pressure distributer including preparing with mechanical broom. | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|------|-----------|
| | 16.31.1 | With rapid setting bitumen emulsion | | |
| | | 16.31.1.1 On W.B.M / W.M.M. @ 0.4kg/sqm | sqm | 13.10 |
| | | 16.31.1.2 On bituminous surface @ 0.25kg/sqm | sqm | 8.65 |
| | 16.31.2 | With medium setting bitumen emulsion | | |
| | | 16.31.2.1 On W.B.M / W.M.M. @ 0.4kg/sqm | sqm | 13.20 |
| | | 16.31.2.2 On bituminous surface @ 0.25kg/sqm | sqm | 8.75 |
| | | Note - Use of Item No. 16.81.1 shall be restricted only per site at sub zero temperature or for emergency application | | |
| 16.32 | chipping sqm and of 13.2 r with hot s | mix carpet surfacing with 1.8 cum and 0.90 cum of stone is of 13.2 mm size and 11.2 mm size respectively per 100 52 kg and 56 kg of hot bitumen per cum of stone chippings mm and 11.2 mm size respectively, including a tack coat straight run bitumen, including consolidation with road roller tonne capacity etc. complete (tack coat to be paid for ly). | | |
| | 16.32.1 | With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt | sqm | 139.85 |
| | 16.32.2 | With paving Asphalt grade VG - 30 with no solvent | sqm | 138.45 |
| | 16.32.3 | With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53 | sqm | 146.45 |
| 16.33 | chipping and 52 k 13.2 mm hot straig | remix carpet surfacing with 2.25 cum and 1.12 cum of stone is of 13.2 mm and 11.2 mm size respectively per 100 sqm ig and 56 kg of hot bitumen per cum of stone chippings of and 11.2 mm size respectively, including a tack coat with ight run bitumen, including consolidation with road roller of 6 is capacity etc. complete (tack coat to be paid for separately). | | |
| | 16.33.1 | With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt | sqm | 169.60 |
| | 16.33.2 | With paving Asphalt grade VG - 30 with no solvent | sqm | 167.85 |
| | 16.33.3 | With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53 | sqm | 177.85 |
| 16.34 | mm nomi min. 65% per cum | mix carpet surfacing with 2.4 cum of stone chippings 11.2 inal size per 100 sqm and bitumen emulsion (medium setting 6 bitumen content) complying with IS: 8887, using 96 kg of chippings, including consolidation with road roller of 6 to capacity etc. complete. | sqm | 127.65 |
| 16.35 | 2.5 cm p mm nomi min. 65% per cum | remix carpet surfacing with 3 cum of stone chippings 10 inal size per 100 sqm and bitumen emulsion (medium setting 6 bitumen contents) complying with IS: 8887, using 96 kg of chippings of road surface, including consolidation with | | |
| 16.36 | Providing | er etc complete. g and laying Bitumen Penetration Macadam with hard stone te of quality, size and grading as specified, with bitumen of | sqm | 154.85 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|--|------|-----------|
| | specified, tipper tail pressure of aggreg roller of m | penetration grade, including required key aggregate as spreading coarse aggregate with the help of self propelled/mounted aggregate spreader and applying bitumen by a distributor and then spreading key aggregate with the help gate spreader complete, including consolidation with road ninimum 8 to 10 tonne capacity to achieve specified values action and surface accuracy: | | |
| | 16.36.1 | For 50mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 kg/ 10 sqm. | sqm | 342.05 |
| | 16.36.2 | For 75 mm compacted thickness in two layers using stone aggregate of size 63-41 mm graded @ 0.90 cum per 10 sqm key aggregate of size 20.0 mm graded @ 0.18 cum per 10 sqm. With paving asphalt grade VG - 10 @ 68 kg/ 10 sqm. | sqm | 496.70 |
| 16.37 | specifical IS:702, p and slope fine grain cum per centre in mm over debris etc | g and laying bitumen mastic wearing course (as per tions) with industrial bitumen of grade 85/25 conforming to prepared by using mastic cooker and laid to required level as, including providing antiskid surface with bitumen precoated ed hard stone chipping of approved size at the rate of 0.005 10 sqm and at approximate spacing of 10 cm centre to both directions, pressed into surface protruding 1 mm to 4 mastic surface, including cleaning the surface, removal of c. all complete. (Considering bitumen using 10.2% as per specification). | | |
| | 16.37.1 | 25 mm thick | sqm | 491.75 |
| | 16.37.2 | 40 mm thick | sqm | 786.80 |
| 16.38 | using sto with 10 n sand @ 1 56 kg/cui tack coa | ick bitumastic sheet with hot bitumen of approved quality, one chippings (60% with 12.5 mm nominal size and 40% nm nominal size) @ 1.65 cum per 100 sqm and coarse .65 cum per 100 sqm of road surface and with bitumen @ m of stone chippings and @ 128 kg/cum of sand over a t with hot straight run bitumen, including consolidation roller of 8 to 10 tonne etc. complete. (tack coat to be paid ly): | | |
| | 16.38.1 | With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt | sqm | 218.75 |
| | 16.38.2 | With paving Asphalt grade VG - 30 | sqm | 215.75 |
| | 16.38.3 | With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53 | sqm | 232.60 |
| 16.39 | using stor 10 mm no 2.60 cum | ck bitumastic sheet with hot bitumen of approved quality, ne chippings (60% with 12.5 mm nominal size and 40% with pminal size) @ 2.60 cum per 100 sqm and coarse sand @ per 100 sqm of road surface and with bitumen @ 56 kg/cum chippings and @ 128 kg/cum of sand over a tack coat with | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|------|-----------|
| | | ht run bitumen, including consolidation with road roller of 8 to etc. complete. (tack coat to be paid separately): | | |
| | 16.39.1 | With paving Asphalt grade VG - 10 heated and then mixed with solvent at the rate of 70 grams per kg of asphalt | sqm | 333.20 |
| | 16.39.2 | With paving asphalt grade VG - 30 with no solvent | sqm | 328.50 |
| | 16.39.3 | With Refinery Modified Bitumen CRMB 55 conforming to IRC: SP: 53 | sqm | 355.15 |
| | SEAL CO | DAT | | |
| 16.40 | 2.36 mm kg of bitu and 0.60 | g and laying seal coat of premixed fine aggregate (passing and retained on 180 micron sieve) with bitumen using 128 umen of grade VG - 10 bitumen per cum of fine aggregate cum of fine aggregate per 100 sqm of road surface, including and finishing with road roller all complete. | sqm | 59.50 |
| 16.41 | bitumen using 98 0.90 cun sieve and | g and laying seal coat over prepared surface of road with heated in bitumen boiler fitted with the spray set spraying kg of bitumen of grade VG - 10 and blinding surface with n of stone aggregate of 6.7 mm size (Passing 11.2 mm d retained on 2.36 mm sieve) per 100 sqm of road surface, rolling and finishing with power road roller all complete. | sqm | 79.85 |
| | | eal coat items to be operated only with the prior approval of gineer concerned. | | |
| | CONCRE | ETE PAVEMENTS | | |
| 16.42 | aggregat and cam | concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone te 40 mm nominal size) in pavements, laid to required slope ber in panels as required including consolidation finishing bing complete. | cum | 5503.80 |
| 16.43 | roads/ ta mix, using size in ap criteria, p laying at needle a finishing M.S. cha expansion deep) by approved Engineer | ag and laying design mix cement concrete of M-30 grade, in axi tracks/ runways, using cement content as per design g coarse sand and graded stone aggregate of 40 mm nominal appropriate proportions as per approved & specified design providing dowel bars with sleeve/ tie bars wherever required, a site, spreading and compacting mechanically by using and surface vibrators, levelling to required slope/ camber, with required texture, including steel form work with sturdy annel sections, curing, making provision for contraction/on, construction & longitudinal joints (10 mm wide x 50 mm or groove cutting machine, providing and filling joints with ad joint filler and sealants, complete all as per direction of r-in-charge (Item of joint fillers, sealants, dowel bars with the bars to be paid separately). | | |
| | | ement content considered in M-30 is @ 340 kg/cum. Excess/ nent used as per design mix is payable/ recoverable ly. | | |
| | 16.43.1 | Cement concrete prepared with batch mixing machine | cum | 6893.25 |
| | 16.43.2 | Cement concrete manufactured in automatic batching plant (RMC plant) i/c transportation to site in transit mixer | cum | 7160.40 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|---|-----------|
| 16.44 | | providing and mixing hardening compound of approved quality anufacturer's specification in cement concrete. | litre | 46.45 |
| 16.45 | Providing joints. | Providing and fixing in position pre-moulded joint filler in expansion joints. | | 2.20 |
| 16.46 | | g and laying in position bitumen hot sealing compound for on joints etc. | | |
| 16.46.1 | Using gra | ade 'A' sealing compound. | per cm depth per cm width per m length | 2.20 |
| | PAINTIN | G AREA / RUNWAY MARKING | | |
| 16.47 | to give u | runway/taxi track/apron marking with adequate nos of coats niform finish with road marking paint of superior make as d by the Engineer-in-charge, i/c cleaning the surface of ail es, oil, grease and other foreign mater;al etc. and lining out e. | | |
| | 16.47.1 | New work (Two or more coats) | sqm | 104.90 |
| | 16.47.2 | Old work (One or more coats) | sqm | 66.25 |
| 16.48 | uniform f : 164, on | road surface marking with adequate nos of coats to give inish with ready mixed road marking paint conforming to IS bituminous surface in white/yellow shade, including cleaning ce of all dirt, scales, oil, grease and foreign material etc. | | |
| | 16.48.1 | New work (Two or more coats) | sqm | 133.10 |
| | 16.48.2 | Old work (One or more coats) | sqm | 86.90 |
| | MISCELI | LANEOUS | | |
| 16.49 | drainage 1:3:6 (1 c nominal s and fixing cement r exposed | pell mouth opening/ entrance of size 100x50x50 cm for pipe under footpath, including providing cement concrete cement: 3 coarse sand: 6 graded stone aggregate 20 mm size) for shape of bell mouth, including plastering providing g precast R.C.C./ S.F.R.C. slab including plastering with mortar 1:3 (1 cement: 3 fine sand) of 6 mm thickness on surface of the slab & bell mouth including centring, shuttering ement punning inside the bell mouth etc. all complete. | each | 1829.70 |
| 16.50 | & neat cement punning inside the bell mouth etc. all complete. Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degress to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be | | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|--|-------|-----------|
| | part 4 : 19 adhesive | s described in ASTM I: 809 as recommended in BS: 873 973. The studs shall be fixed to the Road surface using the conforming to IS, as per procedure recommended by the turer complete and as per direction of Engineer-in-charge. | each | 159.10 |
| 16.51 | (slaked), and 85% | ion of sub-base road pavement with commercial dry lime fly ash stabilised soil with a mix of 3% lime, 12% fly ash local suitable soil by weight, so as to achieve minimum R. of 20, including mixing, rolling with road roller curing etc. lete. | | |
| | 16.51.1 | Minimum thickness 15 cm | cum | 729.65 |
| 16.52 | lime: 2 fl nominal 1:3 (1 ce sub grad | g and fixing precast lime fly ash concrete blocks 1:2:3:6 (1 y ash : 3 coarse sand : 6 graded stone aggregate 20 mm size), including finishing with 10mm thick cement mortar ment : 3 coarse sand) in foot paths, including preparation of e with a hand rammer, laying 10 mm thick leveling course of I (jamuna sand) and filling the joints with fine sand. | cum | 7026.20 |
| 16.53 | concerting 90 m), has wall with and with G.I. stapped of Engine core (2.5 with tape | g and fixing concertina coil fencing with punched tape na coil 600 mm dia 10 metre openable length (total length aving 50 nos rounds per 6 metre length, upto 3 m height of existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart 9 horizontal R.B.T. reinforced barbed wire, stud tied with les and G.I. clips to retain horizontal, including necessary a.I. barbed wire tied to angle iron, all complete as per direction eer-in-charge, with reinforced barbed tape(R.B.T.) / Spring from thick) wire of high tensile strength of 165 kg/ sq.mm at (0.52 mm thick) and weight 43.478 gm/ metre (cost of ple, C.C. blocks shall be paid separately) | metre | 255.00 |
| 16.54 | crushed bitumino tippers, I the requ wheeled, the desir | g and laying Dense Graded Bituminous Macadam using stone aggregates of specified grading, premixed with us binder and filler, transporting the hot mix to work site by aying with paver finisher equiped with electronic sensor to ired grade, level and alignment and rolling with smooth vibratory and tandem rollers as per specifications to achieve ed compaction and density, complete as per specifications stions of Engineer-in-Charge. | | |
| | 16.54.1 | 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 7247.70 |
| | 16.54.2 | 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH | oum. | 7140 45 |
| | | capacity. | cum | 7140.45 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|------|-----------|
| 16.55 | aggregate transport with pave grade, leve and tand compacti | g and laying bituminous macadam using crushed stone tes of specified grading premixed with bituminous binder, ed to site by tippers, laid over a previously prepared surface er finisher equiped with electronic sensor to the required wel and alignment and rolling with smooth wheeled, vibratory dem rollers as per specifications to achieve the desired on and density, complete as per specifications and directions eer-in-Charge. | | |
| | 16.55.1 | 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 5708.05 |
| | 16.55.2 | 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 5606.10 |
| 16.56 | stone ag binder a laying wit grade, lev and tand | g and laying semi- dense Bituminous concrete using crushed gregates of specified grading, premixed with bituminous and filler, transporting the hot mix to work site by tippers, h paver finisher equiped with electronic sensor to the required wel and alignment and rolling with smooth wheeled, vibratory em rollers to achieve the desired compaction and density pecification, complete and as per directions of Engineer-in- | | |
| | 16.56.1 | 25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | sqm | 181.15 |
| | 16.56.2 | 25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity. | sqm | 178.45 |
| 16.57 | aggregat and filler, paver fin level and tandem r | g and laying Bituminous concrete using crushed stone tes of specified grading, premixed with bituminous binder transporting the hot mix to work site by tippers, laying with isher equiped with electronic sensor to the required grade, a laignment and rolling with smooth wheeled, vibratory and ollers to achieve the desired compaction and density as per tion, complete and as per directions of Engineer-in-Charge. | | |
| | 16.57.1 | 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 7863.85 |
| | 16.57.2 | 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|------|-----------|
| | | waste plastic additive @ 8% (percentage by weight of bitumen) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 8345.45 |
| | 16.57.3 | 40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 9073.00 |
| | 16.57.4 | 40/50 mm compacted thickness with bitumen of grade CRMB-60 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 8389.10 |
| | 16.57.5 | 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 7754.35 |
| | 16.57.6 | 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @ 8% (percentage by weight of bitumen) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 8236.00 |
| | 16.57.7 | 40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 8963.55 |
| | 16.57.8 | 40/50 mm compacted thickness with bitumen of grade CRMB-60 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 8279.65 |
| 16.59 | up of 2 m intensity conformi other col lingual), substrate heat and fixing the c/c to ba along wit M.S. ang Tee sect 100x100 | turing, supplying and fixing retro reflective sign boards made im thick aluminium sheet, face to be fully covered with high encapsulated type heat activated retro reflective sheeting ing to type - IV of ASTM-D 4956-01 in blue and silver white or lour combination including subject matter, message (bisymbols and borders etc. as per IRC; 67:2001, pasted on by an adhesive backing which shall be activated by applying pressure conforming to class -2 of ASTM-D-4956-01 and a same with suitable sized aluminium alloy rivets @ 20 cm ck support frame of M.S. angle iron of size 25x25x3 mm in the theft resistant measures, mounted and fixed with 2 Nos. The size 35x35x5 mm to a vertical post made up to M.S. ion ISMT 50x50x6 mm welded with base plate of size x5 mm at the bottom end and including making holes in gles flats, providing & fixing M.S. message plate of required | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|------|-----------|
| | enamel pa over prim support t aluminiun over and lifts etc. (| el work to be painted with two or more coats of synthetic aint of required shade and of approved brand & manufacture ing coat of zinc chromate yellow primer (vertical MS-Tee to be painted in black and white colours). Backside of a sheet to be painted with two or more coats of epoxy paint including appropriate priming coat including all leads and complete as per drawing, specification and direction of the incharge. | | |
| | 16.59.1 | Mandatory/ Regulatory sign boards of 900 mm diametre with support length of 3750 mm | each | 4786.35 |
| | 16.59.2 | Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm | each | 3464.05 |
| 16.60 | boards m covered w retro refle as approv : 67-2001 intensity of backing w class II of structural rivets or periphery measures epoxy pa including from the of as per dr charge. | uring, supplying and fixing retro reflective overhead signage hade up of 2 mm thick aluminium sheet, face to be fully with high intensity and encapsulated lens type heat activated active sheeting conforming to type - III of ASTM-D-4956-01 and by Engineer-in-charge, letters, borders etc. as per IRC in silver white with blue colour back ground and with high grade, pasted on substrate by pressure sensitive adhesive which shall be activated by applying pressure conforming to a fastM-D-4956-01 and fixing the same to the plate of frame work by means of suitable sized aluminium alloys, bolts & nuts @ 300 mm centre to centre all along the as well as in two vertical rows along with theft resistant is, including the cost of painting with two or more coats of appropriate priming coat. The rate includes the cost of off the corners, lowering down the structural frame work grantry, fixing and erecting the same in position all complete rawings, specification and direction of the engineer-instructural frame work including M.S. plate to be provided by Rectangular area of the sheet only shall be measured for the corners. | | |
| | 16.60.1 | Overhead informatory road signage | sqm | 4722.20 |
| 16.61 | meter macovered with sheeting at etc. will be boards are boards with angle 50% anti-theft coats of shack side | Retro-reflective regulatory sign board of size 900 mm dia ade out of 2 mm thick aluminium sheet, face to be fully with high intensity encapsulated lens type retro -reflective as approved by Engineer-in-charge. Letter, symbols, borders be as per IRC - 67 with required colour scheme on the nd with the high intensity grade A. The aluminium sheet to do to M.S. frame of angle iron of size 40x40x4 mm. The sill be fixed to 1 No. 50x50 mm square post made of M.S. ax50x4 mm, 4 m long welded to the frame with adequate arrangement. Sheet work to be painted with two or more synthetic enamel paint over an under coat (primer) and of aluminium sheet to be painted with two or more coats of antincluding appropriate priming coat complete in all respects | | |
| | | ection of Engineer-in-charge. | each | 5266.45 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 16.62 | Providing and applying 2.5 mm thick road marking strips (retro-reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications. | sqm | 391.25 |
| 16.63 | Providing, laying and making kerb channel 30 cm wide and 50 mm thick with cement concrete 1:3:6 (1 cement: 3 coarse sand:6 graded stone aggregate 20 mm nominal size) over 75mm bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth etc. complete and as per direction of Engineer-in-charge. | sqm | 382.05 |
| 16.64 | Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineer-in-charge. | sqm | 141.35 |
| 16.65 | Providing and fixing post delineators made of ABS round body fitted with 2 nos 100 mm dia high reflective reflectors and mounted on MS pipe of 65 mm dia duly powder coated anti-rust and anti theft steel to be installed as per direction of Engineer-in-charge. | each | 554.50 |
| 16.66 | Excavating holes upto 0.10 cum, including getting out the excavated soil, then returning the soil as deported in layers not exceeding 20 cm in depth, including consolidating and deposited layer by ramming watering etc., disposing of surplus excavated soil as directed with in a lead of 50 mm and lift upto 1.5 m. | | |
| | 16.66.1 All kind of soil | each | 17.55 |
| 16.67 | Providing and fixing at or near ground level factory made RCC pavement slab of M-30 grade of size 450x450x50 mm, including reinforcement with 6 mm dia M.S. bars 4 nos on each side, including setting in position in footpath to the required level and line over a bed of 20 mm average thick cement mortar 1:5 (1 cement : 5 coarse sand), having joint thickness not more than 5mm except on curve, including filling of joints with same cement mortar and making grooves etc. complete as per direction of Engineer-in-charge. | sqm | 654.35 |
| 16.68 | Providing and laying 60mm thick faciory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved s;ze, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge. | sqm | 615.70 |
| 16.69 | Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per | • | |

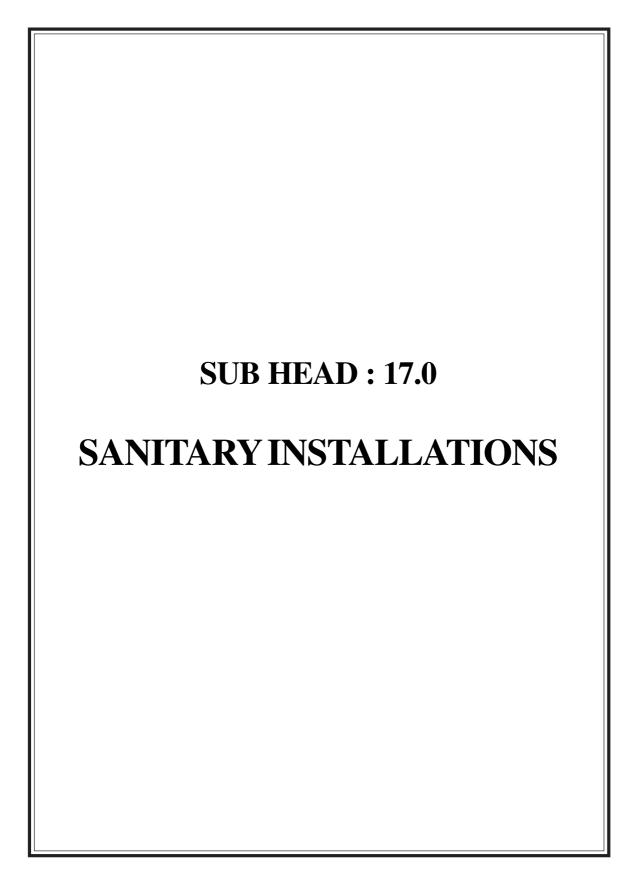
| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-------|-----------|
| | direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge). | cum | 5012.65 |
| 16.70 | Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. | | |
| | 16.70.1 Made of G.I. wire of dia 4 mm | sqm | 561.70 |
| | 16.70.2 Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade | sqm | 594.65 |
| 16.71 | Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25 mm made of G.I. wire of dia 3 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. | sqm | 594.15 |
| 16.72 | Supplying and stacking of hard stone (for stone pitching) 22.5 cm | oqiii | 001.10 |
| | thick at site. | cum | 880.50 |
| 16.73 | Dry stone pitching 22.5 cm thick laid in courses and required profile with hammer dressed stones having no side less than 15 cm, with minimum depth of 20 cm including preparing the bedding surface etc. all complete. (Payment for Stone to be made separately). | sqm | 279.35 |
| 16.74 | 75 mm thick back filling for pitching including supplying of required materials and consolidation etc. complete with : | • | |
| | 16.74.1 Moorum | sqm | 55.85 |
| | 16.74.2 Stone aggregate 20 mm nominal size | sqm | 131.65 |
| | 16.74.3 Stone aggregate 40 mm nominal size | sqm | 128.10 |
| 16.75 | Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-incharge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable | | 004045 |
| 16.76 | separately). Deduct for using of M-20 grade concrete instead of M-25 grade | cum | 6912.15 |
| 10.70 | concrete in C.C. pavement. | cum | 187.60 |
| 16.77 | Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material within all lifts and lead upto 1km (by mechanical means). | sqm | 3.60 |
| 16.78 | Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. | · | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|-------|-----------|
| | 16.78.1 | With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30 | cum | 2089.70 |
| | 16.78.2 | With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25 | cum | 2080.15 |
| | 16.78.3 | With material conforming to Grade-III (size range 26.5 mm to 0.075 mm) having CBR Value-20 | cum | 1931.45 |
| 16.79 | (size ran specifica for all le paverfiniand com to achiev | g, laying, spreading and compacting graded stone aggregate ge 53 mm to 0.075 mm) to wet mix macadam (WMM) tion including premixing the material with water at OMC in eads & lifts, laying in uniform layers with mechanical sher in sub- base / base course on well prepared surface pacting with vibratory roller of 8 to 10 tonne capacity rethe desired density, complete as per specifications and sof Engineer-in-Charge. | cum. | 2132.25 |
| 16.80 | Construction sub-grade size of construction not to per spection optimum construction days, mixilifts, laid with sub-grade size of the sub-grade size of th | etion of dry lean cement concrete sub base over a prepared e with coarse and fine aggregate conforming to IS:383, the barse aggregate not exceeding 25 mm, aggregate cement to exceed 15:1, aggregate gradation after blending to be as ifications, cement content not to be less than 150 Kg/cum, moisture content to be determined during trial length tion, concrete strength not to be less than 10 Mpa at 7 xed in a batching plant, transported to site, for all leads & with a mechanical paver, compacting with 8-10 tonne vibratory shing and curing etc. complete as per direction of Engineer- | cum | 3331.95 |
| 16.81 | Providing as per dra and paint during cosigns, ma Charge. Continuo location a work till it painting, required without p | g and erecting 2.00 metre high temporary barricading at site awing/ direction of Engineer-in-Charge which includes writing ting, arrangement for traffic diversion such as traffic signals onstruction at site for day and night, glow lamps, reflective arking, flags, caution tape as directed by the Engineer-in-The barricading provided shall be retained in position at site usly i/c shifting of barricading from one location to another as many times as required during the execution of the entire as completion. Rate include its maintenance for damages, all incidentals, labour materials, equipments and works to execute the job. The barricading shall not be removed rior approval of Engineer-in-Charge. | | |
| | from star provided | One time payment shall be made for providing barricading tof work till completion of work i/c shifting. The barricading I shall remain to be the property of the contractor on on the work). | metre | 1577.05 |
| 16.82 | verge, in material separate | ut existing kerb stones of all types from footpath/ central cluding removal of mortar etc., disposal of unserviceable to the dumping ground, for which payment shall be made ly and stacking of serviceable material within 50 metre lead rection of Engineer-in-Charge. | metre | 16.05 |
| 16.83 | | at existing CC interlocking paver blocks from footpath/ central cluding removal of rubbish etc., disposal of unserviceable | | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-------|-----------|
| | material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge. | sqm | 53.95 |
| 16.84 | Laying old cement cocrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer- in-charge. (Old CC paver blocks shall be supplied by the department free of cost). | sqm | 209.20 |
| 16.85 | Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of Engineer-in-charge. (Length of finished kerb edging shall be measured for payment). (Old kerb stones shall be supplied by the department free of cost) | metre | 48.90 |
| 16.86 | Providing and laying gang saw cut 18 mm thick, mirror polished pre moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring in road side plazas and similar locations, laid over 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge. | | |
| | 16.86.1 With granite stone of area less than 0.50 sqm. | sqm | 3034.70 |
| 16.87 | Providing and laying gang saw cut 30 mm thick, mirror polished pre moulded and pre polished machine cut granite stone of required size and shape of approved shade, colour and texture in footpath, flooring in road side plazas and similar locations, laid over 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement mixed with matching pigment, epoxy touch ups etc. complete as per direction of Engineer-in-Charge. | | |
| | 16.87.1 With granite stone of area less than 0.50 sqm. | sqm | 3339.60 |
| 16.88 | Providing and laying matt finished vitrified tile of size 100x100x16mm having water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in out door floors such as footpath, court yard multi models etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as direction of Engineer-in-Charge. | sqm | 842.95 |
| 16.89 | Providing and laying matt finished vitrified tile of size 300x300x9.8mm having water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge. | sqm | 764.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------------|-------------------|
| 16.90 | Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having water absorption less than 0.5% and conforming to IS: 15622, of approved make in all colours and shades in outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge. | sqm | 1450.45 |
| 16.91 | Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of course sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & direction of Engineer-in-Charge. | | |
| | 16.91.1 60mm thick Cement concrete paver block of M-35 grade with approved colour, design & pattern. 16.91.2 80mm thick Cement concrete paver block of M-30 grade | sqm | 756.15 |
| 16.92 | with approved colour, design & pattern. Providing and fixing 10x10x7.50 cm Granite stone block hand cut and chisel dressed on top, for paving in floors, drains etc. laid over 20mm thick base mortar 1:4 (1 cement : 4 coarse sand) with joints 10mm wide filled with same mortar including ruled pointing etc. complete as per direction of engineer-in-charge. | sqm sqm | 638.95 1395.25 |
| 16.93 | Providing and placing in position 100 mm thick factory made machine batched & machine mixed Precast RCC Rectangular Covers on drains of footpath of various sizes, of M-25 grade cement concrete for RCC work, including cost of centering, shuttering, reinforcement of 8 mm dia TMT bars of Fe 500 grade @ maximum 100mm c/c on both ways , neat cement punning on finished surface, properly encased on all edges with 1.6 mm thick , 100 mm wide MS sheet duly painted over priming coat , reinforcement to be welded at edges with MS sheet and providing 2 Nos. 12 mm dia bar for hooks etc i/c cost of cartage, all leads & lift, handling at site etc. all complete as per direction of Engineer-in-Charge. | sqm | 1907.95 |
| 16.94 | Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x12 (D=100 mm with tolerance of ± 2%) zinc coated, Mesh wire diameter 3.0 mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2mm, supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per direction of Engineer-in-charge. | cum | 2501.10 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 16.95 | Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x12(D=100 mm with tolerance of ± 2%) Zinc+PVC coated, Mesh wire diameter 2.7/3.7mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2/3.2mm(ID/OD), supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per directions of Engineer-in- charge. | cum | 2692.75 |
| 16.96 | Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012,MORTH Clause 2500, of required size, Mesh Type 10x12(D=100 mm with tolerance of ±2%), Zinc+10% AI alloy+PVC coated, Mesh wire diameter 2.7/3.7mm (ID/OD), mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2/3.2mm(ID/OD), supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per directions of Engineer- incharge. | cum | 3139.95 |



BASIC RATES (17.0 SANITARY INSTALLATIONS)

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|----------|-----------|
| 0100 | Bandhani | day | 407.00 |
| 0101 | Bhisti | day | 407.00 |
| 0103 | Blacksmith 2nd class | day | 448.00 |
| 0112 | Carpenter 2nd class | day | 448.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0116 | Fitter (grade 1) | day | 487.00 |
| 0117 | Assistant Fitter or 2nd class Fitter | day | 448.00 |
| 0123 | Mason (brick layer) 1st class | day | 487.00 |
| 0124 | Mason (brick layer) 2nd class | day | 448.00 |
| 0128 | Mate | day | 407.00 |
| 0131 | Painter | day | 448.00 |
| 0295 | Stone Aggregate (Single size) : 20 mm nominal size | cum | 1300.00 |
| 0297 | Stone Aggregate (Single size) : 10 mm nominal size | cum | 1300.00 |
| 0367 | Portland Cement (OPC-43 grade) | tonne | 5700.00 |
| 0586 | Chromium plated Brass screws 40 mm | 100 Nos | 310.00 |
| 0588 | Chromium plated Brass screws 25 mm | 100 Nos | 190.00 |
| 0828 | Anticorrosive bituminous paint (black) | litre | 100.00 |
| 0830 | Enamel paint | litre | 155.00 |
| 0834 | Synthetic enamel paint in all shades except black or chocolate shade | litre | 150.00 |
| 0982 | Coarse sand (zone III) | cum | 1200.00 |
| 1007 | Structural steel such as tees, angles channels and R.S. joists | quintal | 3775.00 |
| 1309 | C.I. bracket for wash basin and sinks | pair | 65.00 |
| 1313 | 8 mm dia C.P. Brass/ S.S. Jet with flexible tube upto 1 metre long | | |
| | with S.S. tringular plate for Eureopean type W.C. | each | 200.00 |
| 1315 | C.P.brass chain with 40 mm dia rubber plug | each | 40.00 |
| 1330 | Clamps and M.S. stays including bolts and nuts for 100 mm pipe | each | 30.00 |
| 1331 | M.S. Holder bat clamp of approved design for 100 mm S.C.I. pipe | each | 20.00 |
| 1332 | M.S. Holder bat clamp of approved design for 75 mm S.C.I. pipe | each | 18.00 |
| 1334 | Clamps and M.S. stays including bolts and nuts for 50 mm pipe | each | 28.00 |
| 1335 | Clamps and M.S. stays including bolts and nuts for 75 mm pipe | each | 30.00 |
| 1350 | Mosquito proof coupling of approved design | each | 30.00 |
| 1363 | Vitreous china foot rests 250x130x30 mm | pair | 100.00 |
| 1369 | S.C.I. gully or nahani grating 100 mm dia | each | 18.00 |
| 1373 | Rubber insertions for 80 mm dia pipe joints | each | 15.00 |
| 1374 | Rubber insertions for 100 mm dia pipe joints | each | 18.00 |
| 1392 | Mirror of superior make glass 60x45 cm | each | 310.00 |
| 1396 | Vitreous china pedestal for wash basin | each | 700.00 |
| 1397 | Pig lead | kilogram | 138.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 1532 | Flush pipe with union spreaders and clamps all in C.P. brass for single stall | each | 270.00 |
| 1533 | Flush pipe with union spreaders and clamps all in C.P. brass for double stall | each | 400.00 |
| 1534 | Flush pipe with union spreaders and clamps all in C.P. brass for range of three stall | each | 520.00 |
| 1535 | Flush pipe with union spreaders and clamps all in C.P. brass for range of four stall | each | 600.00 |
| 1540 | Flush pipe and spreaders G.I. for single set of one squatting plate urinal | each | 175.00 |
| 1541 | Flush pipe and spreaders G.I. for range of two squatting plates urinal | each | 250.00 |
| 1542 | Flush pipe and spreaders G.I. for range of three squatting plates urinal | each | 300.00 |
| 1543 | Flush pipe and spreaders G.I. for range of four squatting plates urinal | each | 390.00 |
| 1614 | G.I. inlet connection | each | 60.00 |
| 1616 | S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 75 mm dia | each | 950.00 |
| 1617 | S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100 mm dia | each | 1150.00 |
| 1620 | S.C.I. plain bend 75 mm dia | each | 170.00 |
| 1621 | S.C.I. plain bend 100 mm dia | each | 350.00 |
| 1624 | S.C.I. bend with access door 75 mm dia | each | 200.00 |
| 1625 | S.C.I. bend with access door 100 mm dia | each | 252.00 |
| 1627 | S.C.I. plain single equal junctions 75x75x75 mm dia | each | 265.00 |
| 1628 | S.C.I. plain single equal junctions 100x100x100 mm dia | each | 450.00 |
| 1630 | S.C.I. single equal junctions 75x75x75 mm dia with access door | each | 278.00 |
| 1631 | S.C.I. single equal junctions 100x100x100 mm dia with access door | each | 376.00 |
| 1633 | S.C.I. plain double equal junctions 75x75x75x75 mm dia | each | 346.00 |
| 1634 | S.C.I. plain double equal junctions 100x100x100x100 mm dia | each | 520.00 |
| 1636 | S.C.I. double equal junctions 75x75x75x75 mm dia with access door | each | 425.00 |
| 1637 | S.C.I. double equal junctions 100x100x100x100 mm dia with access door | each | 550.00 |
| 1639 | Slotted cowl (terminal guard) 75 mm dia | each | 151.00 |
| 1640 | Slotted cowl (terminal guard) 100 mm dia | each | 190.00 |
| 1653 | Sand cast iron S&S plain single unequal junctions: 100x100x 75 mm dia | each | 370.00 |
| 1656 | Sand cast iron S&S single unequal junctions: 100x100x75 mm dia with access door | each | 400.00 |
| 1659 | Sand cast iron S&S plain double unequal junctions: 100x100x75x 75 mm dia | each | 550.00 |
| 1662 | Sand cast iron S&S double unequal junctions: 100x100x75x75 mm dia with access door | each | 550.00 |
| 1666 | Sand cast iron heel rest bend 75 mm dia | each | 220.00 |
| 1667 | Sand cast iron heel rest bend 100 mm dia | each | 250.00 |

| Code No. | Description | Unit Rate ₹ | Rate ₹ |
|-------------|---|----------------|-----------|
| 1669 | S.C.I. single equal invert branch of required degree 75x75x75 mm dia | each | 320.00 |
| 1670 | S.C.I. single equal invert branch of required degree 100x100x 100 mm dia | each | 410.00 |
| 1672 | S.C.I. double equal invert branch of required degree 75x75x75x 75 mm dia | each | 410.00 |
| 1673 | S.C.I. double equal invert branch of required degree 100x100x 100x100 mm dia | each | 550.00 |
| 1674 | S.C.I. single unequal invert branch of required degree 100x100x 75 mm dia | each | 495.00 |
| 1677 | S.C.I. double unequal invert branch of required degree 100x100x 75x75 mm dia | each | 570.00 |
| 1682 | S.C.I. door pieces 75 mm dia | each | 275.00 |
| 1683 | S.C.I. door pieces 100 mm dia | each | 400.00 |
| 1685 | S.C.I. collar 75 mm dia | each | 92.00 |
| 1686 | S.C.I. collar 100 mm dia | each | 138.00 |
| 1863 | Fire clay kitchen sink: 600x450x250 mm | each | 1300.00 |
| 1871 | White vitreous china laboratory sink 450x300x150 mm | each | 820.00 |
| 1872 | White vitreous china laboratory sink 600x450x200 mm | each | 1525.00 |
| 1875 | White plastic seat (solid) with lid C.P. brass hinges and rubber buffers | each | 330.00 |
| 1876 | Black plastic seat (solid) with lid C.P. brass hinges and rubber buffers | each | 310.00 |
| 1881 | Spun yarn | kilogram | 50.00 |
| 1885 | 15 mm C.P. brass tap | each | 210.00 |
| 1889 | C.P. brass toilet paper holder of standard size | each | 185.00 |
| 1891 | C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 50 mm dia | each | 170.00 |
| 1893 | C.I. trap for standard urinal with vent arm with operating and other couplings in C.P. brass: 80 mm dia | each | 225.00 |
| 1895 | C.P. brass trap 40 mm dia | each | 250.00 |
| 1896 | 100 mm S.C.I. trap with vent heel | each | 315.00 |
| 1897 | 100 mm S.C.I. trap with 100 mm inlet and 100 mm outlet | each | 275.00 |
| 1898 | 100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet | each | 218.00 |
| 1913 | Vitreous china lipped front urinal | each | 460.00 |
| 1915 | Vitreous china squatting plate urinal | each | 1053.00 |
| 1947 | Vitreous china flat back wash basin 630x450 mm | each | 725.00 |
| 1949 | Vitreous china angle back wash basin 600x480 mm | each | 725.00 |
| 1950 | Vitreous china angle back wash basin 400x400 mm | each | 425.00 |
| 1951 | C.P. brass waste 32 mm | each | 80.00 |
| 1952 | C.P. brass waste 40 mm | each | 95.00 |
| 1953 | Vitreous china Indian type W.C. pan size 580 mm | each | 450.00 |
| 1954 | Vitreous china orrisa type W.C. pan size 580 mm | each | 780.00 |
| 1955 | Vitreous china pedestal type water closet | each | 700.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-------|-----------|
| 1965 | White vitreous china dual purpose closet (Anglo Indian W.C.) suitable for use as squatting pan or European type water closet as per manufacturer's specifications | each | 1300.00 |
| 1966 | Floor mounted white vitrous china double trap syphonic WC with 10 litre cistern and all fittings & fixtures, seat cover etc | each | 9500.00 |
| 1970 | Vitreous china foot rests 250x125x25 mm | pair | 100.00 |
| 2202 | Carriage of Stone aggregate below 40 mm nominal size | cum | 103.77 |
| 2203 | Carriage of Coarse sand | cum | 103.77 |
| 2205 | Carriage of Steel | tonne | 92.24 |
| 2209 | Carriage of Cement | tonne | 92.24 |
| 3213 | Vitreous china Surgeon type wash basin of size 660x460 mm | each | 1000.00 |
| 3228 | 600x120 mm glass shelf with anodised aluminium angle frame, C.P. brass brackets and guard rail of standard size | each | 250.00 |
| 3229 | Vitreous china flat back wash basin 550x400 mm | each | 550.00 |
| 3617 | C.P. Brass union 40mm dia | each | 195.00 |
| 3620 | C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long: 100 mm dia | each | 1196.00 |
| 3621 | C.C.I. (spun) socketed soil, waste and vent pipe 1.80 metres long: 75 mm dia | each | 1035.00 |
| 3624 | S.C.I. S&S bends with access door 100 mm dia | each | 290.00 |
| 3625 | S.C.I. S&S bends with access door 75 mm dia | each | 240.00 |
| 3628 | S.C.I. S&S bend 100 mm dia | each | 265.00 |
| 3629 | S.C.I. S&S bend 75 mm dia | each | 195.00 |
| 3634 | S.C.I. S&S heel rest sanitary bend 100 mm dia | each | 296.00 |
| 3635 | S.C.I. S&S heel rest sanitary bend 75 mm dia | each | 250.00 |
| 3640 | S.C.I. S&S single equal junctions 100x100x100 mm | each | 472.00 |
| 3641 | S.C.I. S&S single equal junctions 75x75x75 mm | each | 330.00 |
| 3644 | S.C.I. S&S single equal junctions with access door 100x100x 100 mm | each | 495.00 |
| 3645 | S.C.I. S&S single equal junctions with access door 75x75x75 mm | each | 373.00 |
| 3650 | S.C.I. S&S double equal junctions 100x100x100x100 mm | each | 620.00 |
| 3651 | S.C.I. S&S double equal junctions 75x75x75x75 mm | each | 462.00 |
| 3654 | S.C.I. S&S double equal junctions with access door 100x100x 100x100 mm | each | 615.00 |
| 3655 | S.C.I. S&S double equal junctions with access door 75x75x75x 75 mm | each | 480.00 |
| 3660 | S.C.I. S&S single unequal junctions 100x100x75 mm | each | 570.00 |
| 3664 | S.C.I. S&S single unequal junctions with access door 100x100x 75 mm | each | 640.00 |
| 3670 | S.C.I. S&S double unequal junctions 100x100x75x75 mm | each | 800.00 |
| 3674 | S.C.I. S&S double unequal junctions with access door 100x100x 75x75 mm | each | 850.00 |
| 3681 | S.C.I. S&S single equal invert branch of required degree 100x 100x100 mm dia | each | 425.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-------|-----------|
| 3682 | S.C.I. S&S single equal invert branch of required degree 75x75x 75 mm dia | each | 323.00 |
| 3685 | S.C.I. S&S double equal invert branch of required degree 100x 100x100x100 mm dia | | 530.00 |
| 3686 | S.C.I. S&S double equal invert branch of required degree 75x75x 75x75 mm dia | each | 425.00 |
| 3690 | S.C.I. S&S single unequal invert branch of required degree 100x 100x75 mm dia | each | 545.00 |
| 3695 | S.C.I. S&S double unequal invert branch of required degree 100x 100x75x75 mm dia | each | 725.00 |
| 3699 | S.C.I. S&S, 75 mm offset for 75 mm dia pipe | each | 225.00 |
| 3707 | S.C.I. S&S, 150 mm offset for 75 mm dia pipe | each | 285.00 |
| 3708 | S.C.I. S&S, 150 mm offset for 100 mm dia pipe | each | 390.00 |
| 3712 | S.C.I. S&S, 114 mm offset for 75 mm dia pipe | each | 300.00 |
| 3713 | S.C.I. S&S, 114 mm offset for 100 mm dia pipe | each | 383.00 |
| 3716 | S.C.I. S&S, 152 mm offset for 75 mm dia pipe | each | 358.00 |
| 3717 | S.C.I. S&S, 152 mm offset for 100 mm dia pipe | each | 455.00 |
| 3728 | S.C.I. S&S door pieces 100 mm dia | each | 400.00 |
| 3729 | S.C.I. S&S door pieces 75 mm dia | each | 295.00 |
| 3733 | S.C.I. S&S, Slotted Cowl (Terminal Guard) 100 mm | each | 264.00 |
| 3734 | S.C.I. S&S, Slotted Cowl (Terminal Guard) 75 mm | each | 210.00 |
| 3738 | S.C.I. S&S, collars 100 mm | each | 279.00 |
| 3739 | S.C.I. S&S, collars 75 mm | each | 170.00 |
| 3746 | S.C.I. S&S, 75 mm offset for 75 mm dia pipe | each | 218.00 |
| 3747 | S.C.I. S&S, 75 mm offset for 100 mm dia pipe | each | 363.00 |
| 3749 | Vitreous china toilet paper holder of standard size | each | 100.00 |
| 4202 | Red oxide Zinc chromate primer | litre | 65.00 |
| 7004 | Vitreous china flat back wash basin 450x300 mm | each | 325.00 |
| 7005 | Vitreous china 10 litres low level cistern without fittings | each | 750.00 |
| 7006 | Vitreous china 10 litres low level cistern with fittings | each | 1300.00 |
| 7048 | Rawl plug 50 mm (designation 10 nos) | each | 10.00 |
| 7072 | Wall mounted water closet of size 780x370x690 mm | each | 4650.00 |
| 7073 | Adjustable Vitreous China Cistern with fittings of flushing capacity 3litre/6 litre (adjustable to 4 litre/8 litre) | each | 2000.00 |
| 7074 | White Vitreous China Waterless Urinal of size 600 x 330x315 mm | each | 10105.00 |
| 7075 | Cistern with fittings for Waterless Urinal | each | 2400.00 |
| 7076 | Battery based infrared sensor operated White Vitreous Urinal of approx size 610 x 390 x 370 mm | each | 4000.00 |
| 7095 | Stainless steel kitchen sink - with drain board bowl depth 250 mm | each | 2600.00 |
| 7096 | Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 225 mm | each | 2350.00 |

| No. | Description | Unit | Rate ₹ |
|------|---|------|-----------|
| 7097 | Stainless steel kitchen sink - with drain board 510 x 1040 mm bowl depth 200 mm | each | 2300.00 |
| 7098 | Stainless steel kitchen sink - with drain board 510x1040 mm bowl depth 178 mm | each | 2250.00 |
| 7101 | Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 mm | each | 1500.00 |
| 7102 | Stainless steel kitchen sink - without drain board 610x460 mm bowl depth 200 mm | each | 1250.00 |
| 7103 | Stainless steel kitchen sink - without drain board 470x420 mm bowl depth 178 mm | each | 1100.00 |
| 7104 | Coloured Orissa pattern W.C. pan 580x440 mm | each | 980.00 |
| 7105 | Coloured Pedestal type W.C. pan 580x440 mm (European type) | each | 900.00 |
| 7106 | Coloured Vitreous china 10 lit. low level cistern | each | 1100.00 |
| 7107 | Coloured (other than black) solid P.V.C. seat in European W.C. pan | each | 405.00 |
| 7112 | Circular shape 450 mm dia Mirror with Plastic moulded frame | each | 450.00 |
| 7113 | Rectangular shape 453x357 mm Mirror with Plastic moulded frame | each | 300.00 |
| 7114 | Oval shape 450x350 mm (outer dimensions) Mirror with Plastic moulded frame | each | 350.00 |
| 7115 | Rectangular shape 1500x450 mm Mirror with Plastic moulded frame | each | 700.00 |
| 7116 | Hard board 6 mm thick | sqm | 120.00 |
| 7117 | Semi Rigid PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings | each | 30.00 |
| 7118 | Semi Rigid PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings | each | 35.00 |
| 7119 | Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings | each | 28.00 |
| 7120 | Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings | each | 30.00 |
| 7121 | Bottle Trap | each | 650.00 |
| 7122 | CP Brass Single lever telephonic wall mixer of approved make of aproved make | each | 4000.00 |
| 7123 | Coloured High density polyethylene / poly propylene 10 lit. (full flush) capacity controlled low level flushing cistern with fittings | each | 540.00 |
| 7126 | White Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings | each | 800.00 |
| 7127 | Coloured Vitreous china 10 litre (full flush) capacity controlled low level flushing cistern with all fittings | each | 1200.00 |
| 7358 | Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe) | each | 600.00 |
| 7359 | P.V.C. automatic flushing cistern 5 litre capacity | each | 490.00 |
| 7361 | P.V.C. automatic flushing cistern 10 litre capacity | each | 530.00 |
| 7363 | 15 mm C.P. brass tap with elbow operation lever | each | 450.00 |
| 7364 | White glazed fire clay draining board 600x450x25 mm | each | 550.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-------|-----------|
| 7375 | G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Single lipped urinal | each | 465.00 |
| 7376 | G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of two lipped urinals | each | 800.00 |
| 7377 | G.i. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of three lipped urinals | each | 1100.00 |
| 7378 | G.I. flush pipe and C.P. brass spreader including C.P. connecting pipe Range of four lipped urinals | each | 1500.00 |
| 7379 | White vitreous china clay half stall urinal flat back 580x380x350 mm or angle back 450x375x350 mm with waste fittings as per IS:2556 | each | 907.00 |
| 7406 | PTMT pillar cock | each | 129.00 |
| 7491 | PTMT - Waste Coupling 31/32 mm | each | 36.00 |
| 7492 | PTMT - Waste Coupling 38/40 mm | each | 50.00 |
| 7493 | PTMT - Bottle Trap 31/32 mm | each | 218.00 |
| 7494 | PTMT - Bottle Trap 38/40 mm | each | 228.00 |
| 7503 | PTMT Liquid Soap Container of 400 ml capacity | each | 107.00 |
| 7504 | PTMT - Towel Ring 215x200x37 mm | each | 135.00 |
| 7505 | PTMT - Towel Rail (450 mm) | each | 141.00 |
| 7506 | PTMT - Towel Rail (600 mm) | each | 169.00 |
| 7507 | PTMT Shelf 450x124x36 mm | each | 210.00 |
| 7508 | PTMT - Urinal Spreader 15 mm | each | 80.00 |
| 7621 | Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 100 mm | | |
| | dia (3000 mm length pipe) | metre | 729.00 |
| 7622 | Hubless centrifugally cast (spun) iron pipes as per IS 15905 - 75 mm dia (3000 mm length pipe) | metre | 597.00 |
| 7623 | Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 100 mm dia | each | 241.00 |
| 7624 | Hubless centrifugally cast (spun) iron plain bend as per IS 15905 - 75 mm dia | each | 164.00 |
| 7625 | Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 100x100x100x100 mm dia | each | 532.00 |
| 7626 | Hubless centrifugally cast (spun) iron double equal plain junction as per IS 15905 - 75x75x75x75 mm dia | each | 286.00 |
| 7627 | Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 - 100x100x100 mm dia | each | 410.00 |
| 7628 | Hubless centrifugally cast (spun) iron single equal plain junction as per IS 15905 - 75x75x75 mm dia | each | 225.00 |
| 7629 | Hubless centrifugally cast (spun) iron double unequal plain junction | | |
| 7000 | as per IS 15905 - 100x100x75x75 mm dia | each | 421.00 |
| 7630 | Hubless centrifugally cast (spun) iron single unequal plain junction | !- | 000.00 |
| 7001 | as per IS 15905 - 100x100x75 mm dia | each | 392.00 |
| 7631 | Hubless centrifugally cast (spun) iron double equal plain invert branch | | 0=0.00 |
| 7055 | as per IS 15905 - 100x100x100x100 mm dia | each | 653.00 |
| 7632 | Hubless centrifugally cast (spun) iron single equal plain invert branch as per IS 15905 - 100x100x100 mm dia | each | 410.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|----------|-----------|
| 7633 | Hubless centrifugally cast (spun) iron single equal plain invert branch | | |
| | as per IS 15905 - 75x75x75 mm dia | each | 270.00 |
| 7634 | Hubless centrifugally cast (spun) iron single unequal plain invert | | |
| | branch 45 degree as per IS 15905 - 100x100x75 mm dia | each | 450.00 |
| 7735 | Ductile Iron Class K-7 pipe conforming to I.S. 8329 - 1000 mm dia | metre | 17032.00 |
| 7736 | Extruded burnt flyash clay sewer bricks conforming to I.S 4885 | 1000 Nos | 5400.00 |
| 7737 | Fly ash bricks conforming to I.S. 12894 | 1000 Nos | 5800.00 |
| 7738 | Calcium Silicate Bricks machine moulded conforming to I.S. 4139 | 1000 Nos | 5700.00 |
| 7639 | Hubless centrifugally cast (spun) iron bend with access door - 100 | | |
| | mm dia as per IS 15905 | each | 380.00 |
| 7640 | Hubless centrifugally cast (spun) iron bend with access door - 75 | | |
| | mm dia as per IS 15905 | each | 303.00 |
| 7641 | Hubless centrifugally cast (spun) iron terminal guard (slotted cowl) - | | |
| | 100 mm dia as per IS 15905 | each | 283.00 |
| 7642 | Hubless centrifugally cast (spun) iron trap with 100 mm inlet and | | |
| | 100 mm outlet as per IS 15905 | each | 560.00 |
| 7643 | Hubless centrifugally cast (spun) iron trap with 100 mm inlet and 75 | | |
| | mm outlet as per IS 15905 | each | 404.00 |
| 7644 | SS 304 grade shielded coupling with EPDM rubber gasket for 100 | | |
| | mm dia Hubless centrifugally cast (spun) iron | each | 287.00 |
| 7645 | SS 304 grade shielded coupling with EPDM rubber gasket for 75 mm | | |
| | dia Hubless centrifugally cast (spun) iron | each | 262.00 |
| 7805 | Salem Stainless steel AISI - 304 (18/8) Orrisa pattern W.C. pan 724 mm X 578 mm | each | 3600.00 |
| 7806 | | eacii | 3000.00 |
| 7000 | Salem Stainless steel AISI - 304 (18/8) Round basin 405mm x 355 mm | each | 1500.00 |
| 7807 | Salem Stainless steel AISI - 304 (18/8) Wash basin 530mm x | | |
| | 345 mm | each | 1500.00 |
| 7808 | Centrifugally cast (spun) iron S&S 100 mm inlet and 100 mm outlet | each | 435.00 |
| 7809 | Centrifugally cast (spun) iron S&S 100 mm inlet and 75 mm outlet | each | 468.00 |
| 7858 | P.T.M.T. Urinal cock 15 mm dia | each | 110.00 |
| 9001 | CP brass centre Hole Basin mixer with cast spout | each | 1200.00 |
| 9977 | Carriage | L.S. | 1.73 |
| 9988 | Carriage and sundries | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |
| | | | |

17.0 SANITARY INSTALLATIONS

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|------|-----------|
| 17.1 | pan) wit P.V.C. flu device (I fixtures d | g and fixing water closet squatting pan (Indian type W.C. h 100 mm sand cast Iron P or S trap, 10 litre low level white ushing cistern, including flush pipe, with manually controlled handle lever) conforming to IS: 7231, with all fittings and complete, including cutting and making good the walls and herever required: | | |
| | 17.1.1 | White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests | each | 3494.20 |
| | 17.1.2 | Stainless Steel AISI-304(18/8) Orissa pattern W.C. pan of size 585x480 mm with flush pipe and integrated type foot rests | each | 6769.60 |
| 17.2 | (Europea P.V.C. flu device (I fixtures d | g and fixing white vitreous china pedestal type water closet an type W.C. pan) with seat and lid, 10 litre low level white ushing cistern, including flush pipe, with manually controlled nandle lever), conforming to IS: 7231, with all fittings and complete, including cutting and making good the walls and herever required: | | |
| | 17.2.1 | W.C. pan with ISI marked white solid plastic seat and lid | each | 3418.70 |
| | 17.2.2 | W.C. pan with ISI marked black solid plastic seat and lid | each | 3395.45 |
| 17.3 | (Europea china flu 40 mm fl make ar complete | g and fixing white vitreous china pedestal type water closet an type) with seat and lid, 10 litre low level white vitreous shing cistern & C.P. flush bend with fittings & C.I. brackets, ush bend, overflow arrangement with specials of standard and mosquito proof coupling of approved municipal design e, including painting of fittings and brackets, cutting and good the walls and floors wherever required: | | |
| | 17.3.1 | W.C. pan with ISI marked white solid plastic seat and lid | each | 4593.75 |
| | 17.3.2 | W.C. pan with ISI marked black solid plastic seat and lid | each | 4570.50 |
| 17.4 | lipped from sizes research pipe and complete | g and fixing white vitreous china flat back or wall corner type ont urinal basin of 430x260x350 mm and 340x410x265 mm spectively with automatic flushing cistern with standard flush d.C.P. brass spreaders with brass unions and G.I clamps e, including painting of fittings and brackets, cutting and good the walls and floors wherever required: | | |
| | 17.4.1 | One urinal basin with 5 litre white P.V.C. automatic flushing cistern | each | 3494.15 |
| | 17.4.2 | Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern | each | 5373.40 |
| | 17.4.3 | Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern | each | 7403.35 |
| | 17.4.4 | Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern | each | 10109.60 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|------|-----------|
| 17.5 | size 580 with fittin unions a 2556, C. including | g and fixing white vitreous china flat back half stall urinal of 0x380x350 mm with white PVC automatic flushing cistern, ngs, standard size C.P. brass flush pipe, spreaders with and clamps (all in C.P. brass) with waste fitting as per IS: I. trap with outlet grating and other couplings in C.P. brass, g painting of fittings and cutting and making good the walls as wherever required: | | |
| | 17.5.1 | Single half stall urinal with 5 litre P.V.C. automatic flushing cistern | each | 6187.40 |
| | 17.5.2 | Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern | each | 9317.60 |
| | 17.5.3 | Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern | each | 11694.90 |
| | 17.5.4 | Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern | each | 13941.75 |
| 17.6 | squatting automat flush pip fittings, painting | g and fixing one piece construction white vitreous china g plate with an integral longitudinal flushing pipe, white P.V.C. ic flushing cistern, with fittings, standard size G.I. / PVC ie for back and front flush with standard spreader pipes with G.I clamps and C.P. brass coupling complete, including of fittings and cutting and making good the walls and floors rever required: | | |
| | 17.6.1 | Single squatting plate with 5 litre P.V.C. automatic flushing cistern | each | 4887.50 |
| | 17.6.2 | Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern | each | 7257.40 |
| | 17.6.3 | Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern | each | 9650.15 |
| | 17.6.4 | Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern | each | 11723.85 |
| 17.7 | pillar tap painting | g and fixing wash basin with C.I. brackets, 15 mm C.P. brass bs, 32 mm C.P. brass waste of standard pattern, including of fittings and brackets, cutting and making good the walls rrequire: | | |
| | 17.7.1 | White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps | each | 2298.55 |
| | 17.7.2 | White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap | each | 2020.60 |
| | 17.7.3 | White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps | each | 2095.30 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|--|------|-----------|
| | 17.7.4 | White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap | each | 1817.35 |
| | 17.7.5 | White Vitreous China Angle back wash basin size 600 x 480 mm with single 15 mm C.P. brass pillar tap | each | 2020.60 |
| | 17.7.6 | White Vitreous China Angle back wash basin size 400 x 400 mm with single 15 mm C.P. brass pillar tap | each | 1672.15 |
| | 17.7.7 | White Vitreous China Flat back wash basin size 450x 300 mm with single 15 mm C.P. brass pillar tap | each | 1556.00 |
| | 17.7.8 | White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of 15 mm C.P. brass pillar taps with elbow including operated levers | each | 3175.50 |
| | 17.7.9 | White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISi marked | each | 2618.75 |
| | 17.7.10 | Stainless Steel AISI-304(18/8) Round basin 405x355 mm with single 15 mm C.P. brass pillar tap | each | 2920.75 |
| | 17.7.11 | Stainless Steel AISI-304(18/8) Wash basin 530x345 mm with single 15 mm C.P. brass pillar tap | each | 2920.75 |
| 17.7A | CP Bras make, in | ng and fixing wash basin with C.I. brackets, 15 mm dia ss single hole basin mixer of approved quality and acluding painting of fittings and brackets, cutting and good the walls wherever required:- | | |
| | ` ' | e Vitreous China Wash basin size 550x400 mm with a CP Brass single hole basin mixer | each | 2984.20 |
| 17.7B | PTMT pi pattern, making China Fl | ng and fixing wash basin with C.I. brackets, 15 mm illar cock, 32 mm PTMT waste coupling of standard including painting of fittings and brackets, cutting and good the walls wherever required. White Vitreous lat back wash basin size 550x400 mm with single PTMT pillar cock. | each | 1706.20 |
| 17.8 | | g and fixing white vitreous china pedestal for wash basin ely recessed at the back for the reception of pipes and fittings. | each | 975.25 |
| 17.9 | with rubb | g and fixing kitchen sink with C.I. brackets, C.P. brass chain er plug, 40 mm C.P. brass waste complete, including painting s and brackets, cutting and making good the walls wherever | | |
| | 17.9.1 | White glazed fire clay kitchen sink of size 600x450x 250 mm | each | 2433.25 |
| 17.10 | per IS: 1 including | g and fixing Stainless Steel A ISi 304 (18/8) kitchen sink as 3983 with C.I. brackets and stainless steel plug 40 mm, painting of fittings and brackets, cutting and making good wherever required: | | |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|---|------------------------------------|--|-----------------|-------------------------|
| | 17.10.1 | Kitchen sin | k with drain board | | |
| | | 17.10.1.1 | 510x1040 mm bowl depth 250 mm | each | 4120.80 |
| | | 17.10.1.2 | 510x1040 mm bowl depth 225 mm | each | 3830.40 |
| | | 17.10.1.3 | 510x1040 mm bowl depth 200 mm | each | 3772.35 |
| | | 17.10.1.4 | 510x1040 mm bowl depth 178 mm | each | 3714.25 |
| | 17.10.2 | Kitchen sin | k without drain board | | |
| | | 17.10.2.1 | 610x510 mm bowl depth 200 mm | each | 2476.60 |
| | | 17.10.2.2 | 610x460 mm bowl depth 200 mm | each | 2186.25 |
| | | 17.10.2.3 | 470x420 mm bowl depth 178 mm | each | 2012.00 |
| 17.11 | brackets and 40mi including | , C.P. brass ch m C.P. brass ti | white vitreous china laboratory sink with C.I. nain with rubber plug, 40 mm C.P brass waste rap with necessary C.P. brass unions complete, ttings and brackets, cutting and making good irred: | | |
| | 17.11.1 | Size 450x3 | 00x150 mm | each | 2392.60 |
| | 17.11.2 | Size 600x4 | 50x200 mm | each | 3211.45 |
| 17.12 | | | uining board with C.I. brackets including painting d making good the walls wherever required : | | |
| | 17.12.1 | White glaze mm | ed fire clay draining board of size 600x450x 25 | each | 1033.30 |
| 17.13 | Providing and fixing white vitreous china water closet squatting pan (Indian type): | | | | |
| | 17.13.1 | Long patte | rn W.C. pan of size 580 mm | each | 1073.30 |
| | 17.13.2 | Orissa patt | ern W.C. pan of size 580x440 mm | each | 1456.60 |
| 17.14 | Extra for | using coloure | ed W.C. pan instead of white W.C. pan : | | |
| | 17.14.1 | Orissa patt | ern W.C. pan 580x440 mm | each | -232.30 |
| 17.15 | | | hite vitreous china pedestal type (European) water closet pan. | each | 1363.65 |
| 17.16 | with low I | level cistern c | red pedestal type W.C pan (European type) of same colour instead of white vitreous china | ooob | 620.05 |
| 17.16A | Providin upto 1 i | metre long | 8 mm dia C.P. / S.S. Jet with flexible tube with S.S. triangular plate to Eureopean and make as approved by Engineer - in - | each each | 638.85 254.80 |
| 17.17 | Providing | | air of white vitreous china foot rests of standard an water closet : | - - | |
| | 17.17.1 | 250x130x3 | 0 mm | pair | 166.30 |
| | 17.17.2 | 250x125x2 | 5 mm | pair | 166.30 |
| 17.18 | controlled | | V.C. low level flushing cistern with manually the lever) conforming to IS: 7231, with all fittings | · | |
| | 17.18.1 | 10 litre cap | acity - White | each | 831.50 |
| | 17.18.2 | 10 litre cap | acity - coloured | each | 765.45 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--------------------|---|------|-----------|
| 17.19 | _ | g and fixing controlled flush, low level cistern made of vitreous th all fittings complete. | | |
| | 17.19.1 | 10 litre (full flush) capacity-white | each | 1452.90 |
| | 17.19.2 | 10 litre (full flush) capacity-coloured | each | 1917.50 |
| 17.20 | Providing pan com | g and fixing solid plastic seat with lid for pedestal type W.C. plete: | | |
| | 17.20.1 | White solid plastic seat with lid | each | 410.20 |
| | 17.20.2 | Black solid plastic seat with lid | each | 386.95 |
| | 17.20.3 | Coloured (other than black & white) solid plastic seat with lid | each | 497.30 |
| 17.22 | Providing with W.C | g and fixing G.I. inlet connection for flush pipe connecting 5. pan. | each | 96.60 |
| 17.22A | | ng and fixing CP Brass 32mm size Bottle Trap of ad quality & make and as per the direction of Engineer- | each | 795.15 |
| 17.22B | mixer of | ng and fixing CP Brass Single lever telephonic wall quality & make as approved by Engineer in charge. m nominal dia | each | 4715.75 |
| 17.23 | lipped fro | g and fixing white vitreous china flat back or wall corner type ont urinal basin of 430x260x350 mm or 340x410x265 mm pectively. | each | 930.75 |
| 17.24 | - | g and fixing white vitreous china squatting plate urinal with im longitudinal flush pipe. | each | 2264.75 |
| 17.25 | _ | g and fixing white vitreous china wash basin including making ections but excluding the cost of fittings: | | |
| | 17.25.1 | Flat back wash basin of size 630x450 mm | each | 969.30 |
| | 17.25.2 | Flat back wash basin of size 550x400 mm | each | 766.05 |
| | 17.25.3 | Angle back wash basin of size 600x480 mm | each | 969.30 |
| | 17.25.4 | Angle back wash basin of size 400x400 mm | each | 620.85 |
| | 17.25.5 | Flat back wash basin of size 450x300 mm | each | 504.70 |
| | 17.25.6 | Surgeon type wash basin of size 660x460 mm | each | 1288.70 |
| 17.26 | | g and fixing kitchen sink including making all connections g cost of fittings. | | |
| | 17.26.1 | White glazed fire clay sink of size 600x450x250 mm | each | 1612.90 |
| 17.27 | | g and fixing white vitreous china laboratory sink including all connections excluding cost of fittings: | | |
| | 17.27.1 | Size 450x300x150 mm | each | 1055.35 |
| | 17.27.2 | Size 600x450x200 mm | each | 1874.20 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--|------------------------------|--|-------|-----------|
| 17.28 | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. | | | | |
| | 17.28.1 | Semi rigid p | pipe | | |
| | | 17.28.1.1 | 32 mm dia | each | 75.60 |
| | | 17.28.1.2 | 40 mm dia | each | 81.40 |
| | 17.28.2 | Flexible pip | е | | |
| | | 17.28.2.1 | 32 mm dia | each | 73.25 |
| | | 17.28.2.2 | 40 mm dia | each | 75.60 |
| 17.29 | Providing | and fixing 10 | 00 mm sand cast Iron grating for gully trap. | each | 29.25 |
| 17.30 | | | position 25 mm diameter mosquito proof nunicipal design. | each | 38.50 |
| 17.31 | glass (of | approved qu ked to woode | 200x450 mm beveled edge mirror of superior ality) complete with 6 mm thick hard board in cleats with C.P. brass screws and washers | each | 817.95 |
| 17.32 | Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing: | | | | |
| | 17.32.1 | Circular sha | ape 450 mm dia | each | 905.00 |
| | 17.32.2 | Rectangula | r shape 453x357 mm | each | 752.80 |
| | 17.32.3 | Oval shape | 450x350 mm (outer dimensions) | each | 809.50 |
| | 17.32.4 | Rectangula | r shape 1500x450 mm | each | 1323.10 |
| 17.33 | supported brackets | d on anodise | 0x120x5 mm glass shelf with edges round off, ed aluminium angle frame with C.P. brass complete fixed with 40 mm long screws, rawl | each | 573.30 |
| 17.34 | | • | let paper holder : | | |
| | 17.34.1 | C.P. brass | | each | 385.35 |
| | 17.34.2 | Vitreous ch | ina | each | 295.45 |
| 17.35 | Providing | and fixing so | oil, waste and vent pipes : | | |
| | 17.35.1 | 100 mm dia | L | | |
| | 17.35.1.1 | Sand cast i | ron S&S pipe as per IS: 1729 | metre | 862.80 |
| | 17.35.1.2 | Centrifugall as per IS: 3 | y cast (spun) iron socket & spigot (S&S) pipe 989 | metre | 921.65 |
| | 17.35.1.3 | | entrifugally cast (spun) iron pipes epoxy ide & outside IS:15905 | metre | 925.55 |
| 17.35.2 | 75 mm di | ameter : | | | |
| | 17.35.2.1 | Sand cast i | ron S&S pipe as per IS: 1729 | metre | 712.20 |
| | 17.35.2.2 | Centrifugally | y cast (spun) iron socketed pipe as per IS: 3989 | metre | 794.55 |
| | 17.35.2.3 | | entrifugally cast (spun) iron pipes epoxy ide & outside IS:15905 | metre | 759.80 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|----------------------------------|---|---|------|-----------|
| 17.36 | | - | ne joints with spun yarn, cement slurry and cement: 2 fine sand) in S.C.I./ C.I. Pipes: | | |
| | 17.36.1 | 75 mm dia p | pipe | each | 72.95 |
| | 17.36.2 | 100 mm dia | pipe | each | 85.95 |
| 17.37 | Sand Ca cement of coarse s | st iron/cast ir concrete block and: 4 grade | .S. holder-bat clamps of approved design to on (spun) pipe embedded in and including ks 10x10x10 cm of 1:2:4 mix (1 cement : 2 ed stone aggregate 20 mm nominal size), g holes and making good the walls etc. : | | |
| | 17.37.1 | For 100 mm | n dia pipe | each | 167.35 |
| | 17.37.2 | For 75 mm | dia pipe | each | 165.05 |
| 17.38 | ū | | d of required degree with access door, insertion nick, bolts and nuts complete. | | |
| | 17.38.1 | 100 mm dia | | | |
| | | 17.38.1.1 | Sand cast iron S&S as per IS - 1729 | each | 340.75 |
| | | 17.38.1.2 | Sand cast iron S&S as per IS - 3989 | each | 384.90 |
| | | 17.38.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 489.45 |
| | 17.38.2 | 75 mm dia | | | |
| | | 17.38.2.1 | Sand cast iron S&S as per IS - 1729 | each | 271.40 |
| | | 17.38.2.2 | Sand cast iron S&S as per IS- 3989 | each | 317.85 |
| | | 17.38.2.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 391.05 |
| 17.39 | Providing | g and fixing pla | in bend of required degree. | | |
| | 17.39.1 | 100 mm dia | | | |
| | | 17.39.1.1 | Sand cast iron S&S as per IS - 1729 | each | 433.70 |
| | | 17.39.1.2 | Sand cast iron S&S as per IS: 3989 | each | 334.95 |
| | | 17.39.1.3 | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905 | each | 307.10 |
| | 17.39.2 | 75 mm dia | | | |
| | | 17.39.2.1 | Sand cast iron S&S as per IS -1729 | each | 219.15 |
| | | 17.39.2.2 | Sand cast iron S&S as per IS - 3989 | each | 248.20 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|-----------|-----------------|---|------|-----------|
| | | 17.39.2.3 | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905 | each | 212.20 |
| 17.40 | Providino | g and fixing he | eel rest sanitary bend | | |
| | 17.40.1 | 100 mm dia | ı | | |
| | | 17.40.1.1 | Sand cast iron S&S as per IS - 1729 | each | 317.55 |
| | | 17.40.1.2 | Sand cast iron S&S as per IS - 3989 | each | 370.95 |
| | 17.40.2 | 75 mm dia | | | |
| | | 17.40.2.1 | Sand cast iron S&S as per IS - 1729 | each | 277.20 |
| | | 17.40.2.2 | Sand cast iron S&S as per IS - 3989 | each | 312.05 |
| 17.41 | ` | door, insertion | ouble equal junction of required degree with rubber washer 3 mm thick, bolts and nuts | | |
| | 17.41.1 | 100x100x1 | 00x100 mm | | |
| | | 17.41.1.1 | Sand cast iron S&S as per IS - 1729 | each | 686.65 |
| | | 17.41.1.2 | Sand cast iron S&S as per IS - 3989 | each | 762.15 |
| | 17.41.2 | 75x75x75x75 mm | | | |
| | | 17.41.2.1 | Sand cast iron S&S as per IS - 1729 | each | 532.75 |
| | | 17.41.2.2 | Sand cast iron S&S as per IS - 3989 | each | 596.65 |
| 17.42 | Providing | g and fixing do | uble equal plain junction of required degree. | | |
| | 17.42.1 | 100x100x1 | 00x100 mm | | |
| | | 17.42.1.1 | Sand cast iron S&S as per IS - 1729 | each | 631.15 |
| | | 17.42.1.2 | Sand cast iron S&S as per IS - 3989 | each | 747.30 |
| | | 17.42.1.3 | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905 | each | 645.10 |
| | 17.42.2 | 75x75x75x | | - | |
| | | 17.42.2.1 | Sand cast iron S&S as per IS - 1729 | each | 423.55 |
| | | 17.42.2.2 | Sand cast iron S&S as per IS - 3989 | each | 558.30 |
| | | 17.42.2.3 | Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905 | each | 353.90 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--|----------------|--|------|-----------|
| 17.43 | Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete. | | | | |
| | 17.43.1 | 100x100x1 | 00 mm | | |
| | | 17.43.1.1 | Sand cast iron S&S as per IS - 1729 | each | 484.80 |
| | | 17.43.1.2 | Sand cast iron S&S as per IS - 3989 | each | 623.00 |
| | 17.43.2 | 75x75x75 n | nm | | |
| | | 17.43.2.1 | Sand cast iron S&S as per IS - 1729 | each | 362.00 |
| | | 17.43.2.2 | Sand cast iron S&S as per IS - 3989 | each | 472.35 |
| 17.44 | Providing | and fixing sir | ngle equal plain junction of required degree : | | |
| | 17.44.1 | 100x100x1 | 00 mm | | |
| | | 17.44.1.1 | Sand cast iron S&S as per IS - 1729 | each | 549.85 |
| | | 17.44.1.2 | Sand cast iron S&S as per IS - 3989 | each | 575.40 |
| | | 17.44.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 503.40 |
| | 17.44.2 | 75x75x75 n | nm | | |
| | | 17.44.2.1 | Sand cast iron S&S as per IS - 1729 | each | 329.50 |
| | | 17.44.2.2 | Sand cast iron S&S as per IS - 3989 | each | 405.00 |
| | | 17.44.2.3 | Hubless centrifugally cast (spun) Iron epoxy coated inside & outside as per IS:15905 | each | 283.05 |
| 17.45 | Providing and fixing double unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete: | | | | |
| | 17.45.1 | 100x100x7 | 5x75 mm | | |
| | 17.45.1.1 | Sand cast i | ron S&S as per IS - 1729 | each | 686.90 |
| | 17.45.1.2 | Sand cast i | ron S&S as per IS - 3989 | each | 1035.35 |
| 17.46 | Providing | and fixing do | uble unequal plain junction of required degree: | | |
| | 17.46.1 | 100x100x7 | 5x75 mm | | |
| | | 17.46.1.1 | Sand cast iron S&S as per IS - 1729 | each | 666.00 |
| | | 17.46.1.2 | Sand cast iron S&S as per IS - 3989 | each | 956.35 |
| | | 17.46.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 516.15 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--|------------------|--|------|-----------|
| 17.47 | Providing and fixing single unequal junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete: | | | | |
| | 17.47.1 | 100x100x7 | 5 mm | | |
| | | 17.47.1.1 | Sand cast iron S&S as per IS - 1729 | each | 512.65 |
| | | 17.47.1.2 | Sand cast iron S&S as per IS - 3989 | each | 791.45 |
| 17.48 | Providin degree : | g and fixing | single unequal plain junction of required | | |
| | 17.48.1 | 100x100x7 | 5 mm | | |
| | | 17.48.1.1 | Sand cast iron S&S as per IS - 1729 | each | 456.90 |
| | | 17.48.1.2 | Sand cast iron S&S as per IS - 3989 | each | 689.20 |
| | | 17.48.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 482.45 |
| 17.49 | Providin degree: | g and fixing o | | | |
| | 17.49.1 100x100x100x100 mm | | 00x100 mm | | |
| | | 17.49.1.1 | Sand cast iron S&S as per IS - 1729 | each | 666.00 |
| | | 17.49.1.2 | Sand cast iron S&S as per IS 3989 | each | 642.75 |
| | | 17.49.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 785.60 |
| | 17.49.2 | 75x75x75x | 75 mm | | |
| | | 17.49.2.1 | Sand cast iron S&S as per IS - 1729 | each | 497.90 |
| | | 17.49.2.2 | Sand cast iron S&S as per IS - 3989 | each | 515.35 |
| 17.50 | Providin | g and fixing sir | ngle equal plain invert branch of required degree : | | |
| | 17.50.1 | 100x100x1 | 00 mm | | |
| | | 17.50.1.1 | Sand cast iron S&S as per iron 1729 | each | 503.40 |
| | | 17.50.1.2 | Sand cast iron S&S as per IS - 3989 | each | 520.80 |
| | | 17.50.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 503.40 |
| | 17.50.2 | 75x75x75 r | | | |
| | | 17.50.2.1 | Sand cast iron S&S as per IS - 1729 | each | 393.35 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--------------------|---------------|--|--------|-----------|
| | | 17.50.2.2 | Sand cast iron S&S as per IS - 3989 | each | 396.85 |
| | | 17.50.2.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 335.30 |
| 17.51 | Providing | and fixing do | uble unequal invert branch of required degree : | | |
| | 17.51.1 | 100x100x7 | 5x75 mm | | |
| | | 17.51.1.1 | Sand cast iron S&S as per IS - 1729 | each | 689.20 |
| | 17.51.1.2 | Sand cast i | ron S&S as per IS - 3989 | each | 869.25 |
| 17.52 | Providing degree : | and fixing si | ngle unequal plain invert branch of required | | |
| | 17.52.1 | 100x100x7 | 5 mm | | |
| | | 17.52.1.1 | Sand cast iron S&S as per IS - 1729 | each | 602.10 |
| | | 17.52.1.2 | Sand cast iron S&S as per IS - 3989 | each | 660.20 |
| | | 17.52.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 549.85 |
| 17.53 | Providina | and fixing sa | and cast iron S&S off sets as per IS: 1729 | 00.011 | 0.0.00 |
| | 17.53.1 | 76 mm off s | · | | |
| | | 17.53.1.1 | With 75 mm dia pipe | each | 274.90 |
| | | 17.53.1.2 | With 100 mm dia pipe | each | 443.30 |
| | 17.53.2 | 114 mm off | • • | | |
| | | 17.53.2.1 | With 75 mm dia pipe | each | 375.60 |
| | | 17.53.2.2 | With 100 mm dia pipe | each | 472.00 |
| | 17.53.3 | 152 mm off | sets | | |
| | | 17.53.3.1 | With 75 mm dia pipe | each | 451.85 |
| | | 17.53.3.2 | With 100 mm dia pipe | each | 564.55 |
| 17.53A | | _ | Hubless centrifugally cast iron offsets & outside as per IS:15905 | | |
| | 17.53A.1 | 65 mm offs | ets | | |
| | | 17.53A.1.1 | With 100 mm dia pipe | each | 460.75 |
| | | 17.53A.1.2 | With 75 mm dia pipe | each | 379.45 |
| 17.54 | Providing | and fixing sa | and cast iron S&S off sets as per IS: 3989 : | | |
| | 17.54.1 | 75 mm off s | sets | | |
| | | 17.54.1.1 | With 75 mm dia pipe | each | 283.05 |
| | 17.54.2 | 150 mm off | sets | | |
| | | 17.54.2.1 | With 75 mm dia pipe | each | 363.40 |
| | | 17.54.2.2 | With 100 mm dia pipe | each | 485.40 |

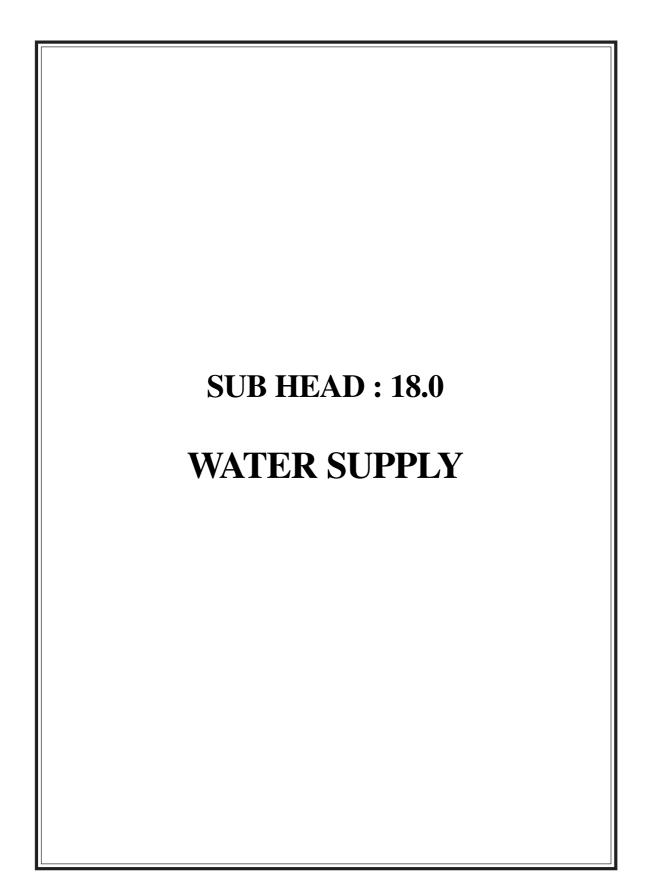
| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--------------------------------------|---------------------------|--|------|-----------|
| 17.54A | | _ | Hubless centrifugally cast iron offsets & outside as per IS:15905 | | |
| | 17.54 A .1 | 130 mm off | sets | | |
| | | 17.54A.1.1 | With 100 mm dia | each | 557.95 |
| | | 17.54A.1.2 | With 75 mm dia | each | 399.20 |
| 17.55 | _ | and fixing douts complete | or piece, insertion rubber washer 3mm thick, : | | |
| | 17.55.1 | 100 mm | | | |
| | | 17.55.1.1 | Sand cast iron S&S as per IS - 1729 | each | 512.65 |
| | | 17.55.1.2 | Sand cast iron S&S as per IS - 3989 | each | 512.65 |
| | 17.55.2 | 75 mm | | | |
| | | 17.55.2.1 | Sand cast iron S&S as per IS - 1729 | each | 358.50 |
| | | 17.55.2.2 | Sand cast iron S&S as per IS - 3989 | each | 381.75 |
| 17.56 | Providing and fixing terminal guard: | | | | |
| | 17.56.1 | 100 mm | | | |
| | | 17.56.1.1 | Sand cast iron S&S as per IS - 1729 | each | 247.85 |
| | | 17.56.1.2 | Sand cast iron S&S as per IS - 3989 | each | 333.80 |
| | | 17.56.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 355.85 |
| | 17.56.2 | 75 mm | | | |
| | | 17.56.2.1 | Sand cast iron S&S as per IS - 1729 | each | 197.10 |
| | | 17.56.2.2 | Sand cast iron S&S as per IS - 3989 | each | 265.60 |
| 17.57 | Providing | and fixing co | llar: | | |
| | 17.57.1 | 100 mm | | | |
| | | 17.57.1.1 | Sand cast iron S&S as per IS - 1729 | each | 187.45 |
| | | 17.57.1.2 | Sand cast iron S&S as per IS - 3989 | each | 351.20 |
| | 17.57.2 | 75 mm | | | |
| | | 17.57.2.1 | Sand cast iron S&S as per IS - 1729 | each | 128.55 |
| | | 17.57.2.2 | Sand cast iron S&S as per IS - 3989 | each | 219.15 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|---|---|--|-------|-----------|
| 17.57A | Providing cast iron | | hielded coupling for Hubless centrifugally | | |
| | 17.57A.1 | 100 mm di | a | | |
| | | 17.57A.1.1 | SS 304 grade coupling with EPDM rubber gasket | each | 360.50 |
| | 17.57A.2 | 75 mm dia | | | |
| | | 17.57A.2.1 | SS 304 grade coupling with EPDM rubber gasket | each | 326.00 |
| 17.58 | _ | | d joints to sand cast iron/centrifugally cast ittings of diameter: | | |
| | 17.58.1 | 100 mm | | each | 309.95 |
| | 17.58.2 | 75 mm | | each | 263.60 |
| | 17.58.3 | 50 mm | | each | 213.35 |
| 17.59 | _ | and fixing Nally cast (spur | | | |
| | 17.59.1 | 100 mm | | each | 62.00 |
| | 17.59.2 | 75 mm | | each | 56.55 |
| | 17.59.3 | 50 mm | | each | 51.60 |
| 17.60 | Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: | | | | |
| | 17.60.1 | 100 mm inle | et and 100 mm outlet | | |
| | | 17.60.1.1 | Sand cast iron S&S as per IS: 3989 | each | 1034.45 |
| | | 17.60.1.2 | Sand Cast Iron S&S as per IS: 1729 | each | 848.60 |
| | | 17.60.1.3 | Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905 | each | 677.60 |
| 17.60.2 | 100 mm i | nlet and 75 m | nm outlet | | |
| | 17.60.2.1 | Sand cast in | ron S&S as per IS - 3989 | each | 1072.80 |
| | 17.60.2.2 | Sand Cast I | ron S&S as per IS- 1729 | each | 782.40 |
| | 17.60.2.3 | | entrifugally cast (spun) iron epoxy coated utside as per IS:15905 | each | 496.40 |
| 17.61 | iron/ centr with ceme aggregate | rifugally cast (ant concrete 1: a 12.5 mm no | masonry walls for following diameter sand cast (spun) iron pipes and making good the same (3:6 (1 cement: 3 coarse sand: 6 graded stone ominal size), including necessary plaster and (ar 1:4 (1 cement: 4 coarse sand): | | |
| | 17.61.1 | 100 mm dia | | metre | 355.70 |
| | 17.61.2 | 75 mm dia | | metre | 254.65 |
| | 17.61.3 | 50 mm dia | | metre | 163.30 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|-------|-----------|
| 17.62 | inside an approved | C.I. cistern with bitumastic or any other anti-corrosive paint d white paint over a coat of zinc chromate yellow primer (of d quality) on the outside surface of the cistern, flush pipe, ngs, etc. complete for new work. | each | 471.75 |
| 17.63 | paint insi | ing C.I. cistern with bitumastic or any other anti-corrosive ide and white paint on the outside surface of the cistern, e, other fittings, etc. complete, including polishing of wooden lid and cleaning of W.C. pan with acid wherever necessary. | each | 328.40 |
| 17.64 | brand an | ng C.I. cistern with synthetic enamel paint of approved colour, d manufacture on the outside surface of cistern, flush pipe, ngs etc. complete. | each | 140.30 |
| 17.65 | vent pipe any color | sand cast iron/ centrifugally cast (spun) iron soil, waste es and fittings with two coats of synthetic enamel paint of ur such as chocolate grey, or buff etc. over a coat of primer ved quality) for new work: | | |
| | 17.65.1 | 100 mm diameter pipe | metre | 40.65 |
| | 17.65.2 | 75 mm diameter pipe | metre | 31.00 |
| 17.66 | waste, v | ng sand cast iron/ centrifugally cast iron (spun) iron, soil, ent pipes and fittings with one coat of synthetic enamel any colour such as chocolate, grey or buff etc: | | |
| | 17.66.1 | 100 mm diameter pipe | metre | 20.20 |
| | 17.66.2 | 75 mm diameter pipe | metre | 15.10 |
| 17.67 | Repaintir | ng bath tub of size 1700x730x430 mm with enamel paint. | each | 412.55 |
| 17.68 | use as so W.C pan buffers, 1 mm flush make an complete | g and fixing vitreous china dual purpose closet suitable for quatting pan or European type water closet (Anglo Indian) with seat & lid fixed with C.P. brass hinges and rubber 0 litre low level flushing cistern with fitting and brackets, 40 in bend, 20 mm over flow pipe, with specials of standard d mosquito proof coupling of approved municipal design e, including painting of fittings and brackets, cutting and good the walls and floors wherever required: | | |
| | 17.68.1 | White vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and C.P. flush bend. | each | 6290.85 |
| 17.69 | | g and fixing PTMT Waste Coupling for wash basin and sink, ved quality and colour. | | |
| | 17.69.1 | Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms | each | 82.55 |
| | 17.69.2 | Waste coupling 38 mm dia of 83 mm length and 77mm breadth, weighing not less than 60 gms | each | 98.80 |
| 17.70 | Providing | g and fixing PTMT Bottle Trap for Wash basin and sink. | | |
| | 17.70.1 | Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms | each | 293.95 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|------|-----------|
| | 17.70.2 | Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms | each | 305.55 |
| 17.71 | mm high bracket o | and fixing PTMT liquid soap container 109 mm wide, 125 and 112 mm distance from wall of standard shape with of the same materials with snap fittings of approved quality ur, weighing not less than 105 gms. | each | 137.85 |
| 17.72 | 200 mm v | and fixing PTMT towel ring trapezoidal shape 215 mm long, wide with minimum distances of 37 mm from wall face with d fittings arrangement of approved quality and colour, not less than 88 gms. | each | 197.55 |
| 17.73 | wooden | g and fixing PTMT towel rail complete with brackets fixed to cleats with CP brass screws with concealed fittings nent of approved quality and colour. | | |
| | 17.73.1 | 450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not less than 170 gms | each | 390.20 |
| | 17.73.2 | 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms. | each | 422.70 |
| 17.74 | | and fixing PTMT shelf 440 mm long, 124 mm width and 36 ht of approved quality and colour, weighing not less than | each | 470.35 |
| 17.75 | | g and fixing PTMT 15 mm Urinal spreader size 95x69x100 1/2" BSP thread and shapes, weighing not less than 60 | each | 106.50 |
| 17.76 | _ | and fixing PTMT urinal cock of approved quality and colour. | | |
| | 17.76.1 | 15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms | each | 143.95 |
| 17.77 | sand casi made of st the wall st hold faste RCC surf already fi M.S. flats fixed with | g and fixing M.S. holder bat clamp of approved design to tiron/ cast iron (spun) pipes comprising of M.S. flat brackets 50x5 mm flat of specified shape, projecting 75 mm outside surface and fixed on wall with 4nos, 6mm dia expansion eners, including drilling necessary holes in brick wall/ CC/face and the cost of bolts etc. The pipes shall be fixed to the fixed brackets with the help of 30 mm x1.6 mm galvanised to fixed shape and of total length 420 mm and shall be in M.S. nuts, bolts, & washers of size 25x6 mm, one bolts side of the pipe. | | |
| | 17.77.1 | Total bracket length 580 mm of approved shape and design (for single 100 mm dia pipe) | each | 179.40 |
| | 17.77.2 | Total bracket length 810 mm of approved shape and design (for two 100 mm dia pipes) | each | 216.30 |
| | 17.77.3 | Total bracket length 1040 mm of approved shape and design (for three 100 mm dia pipes) | each | 253.15 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 17.78 | Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete. | each | 9685.70 |
| 17.79 | Providing & fixing white vitreous china water less urinal of size 600 x 330 x 315 mm having antibacterial /germs free ceramic surface, fixed with cartridge having debris catcher and hygiene seal. | each | 15040.75 |
| 17.80 | Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge. | each | 5162.20 |
| 17.81 | Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge. | each | 12612.65 |



BASIC RATES (SH: 18.0 WATER SUPPLY)

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|----------|-----------|
| 0010 | Hire charges of Derrick monkey rope | day | 800.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0116 | Fitter (grade 1) | day | 487.00 |
| 0117 | Assistant Fitter or 2nd class Fitter | day | 448.00 |
| 0123 | Mason (brick layer) 1st class | day | 487.00 |
| 0124 | Mason (brick layer) 2nd class | day | 448.00 |
| 0593 | C.P. Brass Extension Nipple (1/2"x2" size) | each | 45.00 |
| 0761 | Fuel wood | quintal | 500.00 |
| 0771 | Kerosene oil | litre | 45.00 |
| 1301 | Bleaching powder | quintal | 1750.00 |
| 1304 | Surface box for stop cock | each | 125.00 |
| 1305 | Surface box for sluice valve | each | 210.00 |
| 1307 | Surface box for water meter | each | 250.00 |
| 1339 | Brass bib-cock 15 mm dia | each | 210.00 |
| 1340 | Brass bib-cock 20 mm dia | each | 225.00 |
| 1342 | Brass stop-cock 15 mm dia | each | 210.00 |
| 1343 | Brass stop-cock 20 mm dia | each | 225.00 |
| 1360 | C.I. mouth, brass ferrule 15 mm dia | each | 140.00 |
| 1361 | C.I. mouth, brass ferrule 20 mm dia | each | 160.00 |
| 1362 | C.I. mouth, brass ferrule 25 mm dia | each | 220.00 |
| 1373 | Rubber insertions for 80 mm dia pipe joints | each | 15.00 |
| 1374 | Rubber insertions for 100 mm dia pipe joints | each | 18.00 |
| 1375 | Rubber insertions for 125 mm dia pipe joints | each | 20.00 |
| 1376 | Rubber insertions for 150 mm dia pipe joints | each | 20.00 |
| 1377 | Rubber insertions for 200 mm dia pipe joints | each | 25.00 |
| 1378 | Rubber insertions for 250 mm dia pipe joints | each | 40.00 |
| 1379 | Rubber insertions for 300 mm dia pipe joints | each | 45.00 |
| 1380 | Rubber insertions for 350 mm dia pipe joints | each | 50.00 |
| 1381 | Rubber insertions for 400 mm dia pipe joints | each | 73.00 |
| 1382 | Rubber insertions for 450 mm dia pipe joints | each | 92.00 |
| 1383 | Rubber insertions for 500 mm dia pipe joints | each | 110.00 |
| 1384 | Rubber insertions for 600 mm dia pipe joints | each | 125.00 |
| 1397 | Pig lead | kilogram | 138.00 |
| 1464 | S & S.C.I. standard specials upto 300 mm dia (heavy class) | quintal | 3600.00 |
| 1466 | S & S.C.I. standard specials over 300 mm dia (heavy class) | quintal | 3700.00 |
| 1468 | Flanged C.I. standard specials upto 300 mm dia (heavy class) | quintal | 5500.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-----------|-----------|
| 1470 | Flanged C.I. standard specials over 300 mm dia (heavy class) | quintal | 5500.00 |
| 1472 | Casing pipe 100 mm dia | metre | 335.00 |
| 1545 | G.I. pipes 15 mm dia | metre | 77.00 |
| 1546 | G.I. pipes 20 mm dia | metre | 99.00 |
| 1547 | G.I. pipes 25 mm dia | metre | 110.00 |
| 1548 | G.I. pipes 32 mm dia | metre | 145.00 |
| 1549 | G.I. pipes 40 mm dia | metre | 185.00 |
| 1550 | G.I. pipes 50 mm dia | metre | 220.00 |
| 1551 | G.I. pipes 65 mm dia | metre | 295.00 |
| 1552 | G.I. pipes 80 mm dia | metre | 400.00 |
| 1555 | G.I. back (jam) nuts 25 mm dia | each | 8.00 |
| 1559 | G.I. back (jam) nuts 65 mm dia | each | 20.00 |
| 1608 | G.I. tees (equal) 25 mm | each | 40.00 |
| 1612 | G.I. tees (equal) 65 mm | each | 250.00 |
| 1641 | G.I. Union 15 mm nominal bore | each | 30.00 |
| 1642 | G.I. Union 20 mm nominal bore | each | 50.00 |
| 1643 | G.I. Union 25 mm nominal bore | each | 80.00 |
| 1644 | G.I. Union 32 mm nominal bore | each | 110.00 |
| 1645 | G.I. Union 40 mm nominal bore | each | 160.00 |
| 1646 | G.I. Union 50 mm nominal bore | each | 200.00 |
| 1647 | G.I. Union 65 mm nominal bore | each | 400.00 |
| 1648 | G.I. Union 80 mm nominal bore | each | 470.00 |
| 1649 | Polyethylene water storage tank with cover and suitable locking arrangement | per litre | 5.30 |
| 1687 | Unplasticised P.V.C. connection pipe with brass union 30 cm long 15 mm bore | each | 30.00 |
| 1688 | Unplasticised P.V.C. connection pipe with brass union 30 cm long 20 mm bore | each | 35.00 |
| 1689 | Unplasticised P.V.C. connection pipe with brass union 45 cm long 15 mm bore | each | 35.00 |
| 1690 | Unplasticised P.V.C. connection pipe with brass union 45 cm long 20 mm bore | each | 48.00 |
| 1693 | S.C.I. hand pump | each | 670.00 |
| 1878 | Shower rose C.P. brass for 15 to 20 mm inlet 100 mm dia | each | 50.00 |
| 1879 | Shower rose C.P. brass for 15 to 20 mm inlet 150 mm dia | each | 60.00 |
| 1881 | Spun yarn | kilogram | 50.00 |
| 1882 | Strainer brass 40 mm dia 1.5 metre long | each | 600.00 |
| 1922 | H.P. or L.P. ball valve with polythene floats: 15 mm dia | each | 210.00 |
| 1923 | H.P. or L.P. ball valve with polythene floats: 20 mm dia | each | 235.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-----------|-----------|
| 1924 | H.P. or L.P. ball valve with polythene floats: 25 mm dia | each | 230.00 |
| 1926 | 20 mm dia Gunmetal gate valve with wheel | each | 325.00 |
| 1927 | Brass full way valve with C.I. wheel (screwed end) 25 mm dia | each | 350.00 |
| 1928 | Brass full way valve with C.I. wheel (screwed end) 32 mm dia | each | 410.00 |
| 1929 | Brass full way valve with C.I. wheel (screwed end) 40 mm dia | each | 480.00 |
| 1930 | Brass full way valve with C.I. wheel (screwed end) 50 mm dia | each | 620.00 |
| 1931 | Brass full way valve with C.I. wheel (screwed end) 65 mm dia | each | 1080.00 |
| 1932 | Brass full way valve with C.I. wheel (screwed end) 80 mm dia | each | 1620.00 |
| 1933 | Gunmetal non-return valve-horizontal (screwed end) 25 mm dia | each | 330.00 |
| 1934 | Gunmetal non-return valve-horizontal (screwed end) 32 mm dia | each | 450.00 |
| 1935 | Gunmetal non-return valve-horizontal (screwed end) 40 mm dia | each | 560.00 |
| 1936 | Gunmetal non-return valve-horizontal (screwed end) 50 mm dia | each | 820.00 |
| 1937 | Gunmetal non-return valve-horizontal (screwed end) 65 mm dia | each | 1490.00 |
| 1938 | Gunmetal non-return valve-horizontal (screwed end) 80 mm dia | each | 2120.00 |
| 1940 | C.I. sluice valve (with caps) class I: 100 mm dia | each | 2410.00 |
| 1941 | C.I. sluice valve (with caps) class I: 125 mm dia | each | 2600.00 |
| 1942 | C.I. sluice valve (with caps) class I: 150 mm dia | each | 3600.00 |
| 1943 | C.I. sluice valve (with caps) class I: 200 mm dia | each | 7500.00 |
| 1944 | C.I. sluice valve (with caps) class I: 250 mm dia | each | 10980.00 |
| 1945 | C.I. sluice valve (with caps) class I: 300 mm dia | each | 15500.00 |
| 1956 | Bolts and nuts 16 mm dia 60 mm long | each | 11.00 |
| 1957 | Bolts and nuts 16 mm dia 65 mm long | each | 12.00 |
| 1958 | Bolts and nuts 20 mm dia 65 mm long | each | 15.00 |
| 1959 | Bolts and nuts 20 mm dia 70 mm long | each | 17.00 |
| 1960 | Bolts and nuts 20 mm dia 75 mm long | each | 16.00 |
| 1961 | Bolts and nuts 20 mm dia 80 mm long | each | 18.00 |
| 1962 | Bolts and nuts 24 mm dia 85 mm long | each | 28.00 |
| 1963 | Bolts and nuts 24 mm dia 90 mm long | each | 32.00 |
| 1964 | Bolts and nuts 27 mm dia 100 mm long | each | 38.00 |
| 2271 | Carriage of G.I. pipes below 100 mm dia | tonne | 92.24 |
| 2272 | Carriage of Stainless Steel pipes below 100 mm dia | tonne | 92.24 |
| 2309 | Carriage of Cast Iron fittings | tonne | 92.24 |
| 2319 | Carriage of Spun iron S & S pipes 100 mm dia | 100 metre | 226.82 |
| 2320 | Carriage of Spun iron S & S pipes 125 mm dia | 100 metre | 302.97 |
| 2321 | Carriage of Spun iron S & S pipes 150 mm dia | 100 metre | 378.03 |
| 2322 | Carriage of Spun iron S & S pipes 200 mm dia | 100 metre | 614.93 |
| 2323 | Carriage of Spun iron S & S pipes 250 mm dia | 100 metre | 873.84 |
| 2324 | Carriage of Spun iron S & S pipes 300 mm dia | 100 metre | 1080.08 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-----------|-----------|
| 2325 | Carriage of Spun iron S & S pipes 350 mm dia | 100 metre | 1512.11 |
| 2326 | Carriage of Spun iron S & S pipes 400 mm dia | 100 metre | 2061.97 |
| 2327 | Carriage of Spun iron S & S pipes 450 mm dia | 100 metre | 2520.19 |
| 2328 | Carriage of Spun iron S & S pipes 500 mm dia | 100 metre | 2520.19 |
| 2329 | Carriage of Spun iron S & S pipes 600mm dia | 100 metre | 3780.28 |
| 2330 | Carriage of C.I. pipes 500 mm dia | 100 metre | 2520.19 |
| 2331 | Carriage of R.C.C. pipes 900 mm dia | 100 metre | 5670.42 |
| 2332 | Carriage of R.C.C. pipes 1000 mm dia | 100 metre | 7560.57 |
| 2333 | Carriage of R.C.C. pipes 1100 mm dia | 100 metre | 7560.57 |
| 2334 | Carriage of R.C.C. pipes 1200 mm dia | 100 metre | 7560.57 |
| 2335 | Carriage of Jamuna sand | cum | 103.77 |
| 2341 | Carriage of Pig lead | tonne | 92.24 |
| 2343 | Carriage of Ductile Iron pipes (k7) 100 mm dia | 100 metre | 226.82 |
| 2344 | Carriage of Cast iron pipes 150 mm dia | 100 metre | 378.03 |
| 2345 | Carriage of Cast iron pipes 200 mm dia | 100 metre | 614.93 |
| 2346 | Carriage of Cast iron pipes 250 mm dia | 100 metre | 873.84 |
| 2347 | Carriage of Cast iron pipes 300 mm dia | 100 metre | 1080.08 |
| 2348 | Carriage of Cast iron pipes 350 mm dia | 100 metre | 1512.11 |
| 2349 | Carriage of Cast iron pipes 400 mm dia | 100 metre | 2061.97 |
| 2350 | Carriage of Cast iron pipes 450 mm dia | 100 metre | 2520.19 |
| 2351 | Carriage of Cast iron pipes 500 mm dia | 100 metre | 2520.19 |
| 2352 | Carriage of Cast iron pipes 600 mm dia | 100 metre | 3780.28 |
| 2353 | Carriage of Cast iron pipes 700 mm dia | 100 metre | 3780.28 |
| 2355 | Carriage of Cast iron pipes 800 mm dia | 100 metre | 3780.28 |
| 2356 | Carriage of Cast iron pipes 900 mm dia | 100 metre | 5670.42 |
| 2357 | Carriage of Cast iron pipes 1000 mm dia | 100 metre | 7560.57 |
| 3080 | Gunmetal non-return valve - vertical (screwed end) 25 mm dia | each | 350.00 |
| 3084 | Gunmetal non-return valve - vertical (screwed end) 32 mm dia | each | 500.00 |
| 3088 | Gunmetal non-return valve - vertical (screwed end) 40 mm dia | each | 700.00 |
| 3092 | Gunmetal non-return valve - vertical (screwed end) 50 mm dia | each | 900.00 |
| 3096 | Gunmetal non-return valve - vertical (screwed end) 65 mm dia | each | 1500.00 |
| 3300 | Gunmetal non-return valve - vertical (screwed end) 80 mm dia | each | 2500.00 |
| 3311 | C.I. sluice valve (with caps) class II: 100 mm dia | each | 2700.00 |
| 3314 | C.I. sluice valve (with caps) class II: 125 mm dia | each | 3200.00 |
| 3317 | C.I. sluice valve (with caps) class II: 150 mm dia | each | 4000.00 |
| 3320 | C.I. sluice valve (with caps) class II : 200 mm dia | each | 8900.00 |
| 3321 | C.I. sluice valve (with caps) class II : 250 mm dia | each | 14500.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 3326 | C.I. sluice valve (with caps) class II: 300 mm dia | each | 18200.00 |
| 3327 | 15 mm Battery Based Sensor Pillar Cock | each | 5800.00 |
| 6501 | Sand zone V (Jamuna) | cum | 600.00 |
| 7257 | C.P. Brass bibcock 15 mm | each | 300.00 |
| 7258 | C.P. Brass long nose bibcock 15 mm | each | 450.00 |
| 7259 | C.P. Brass long body bibcock 15 mm | each | 400.00 |
| 7260 | C.P. Brass stop cock (concealed) 15 mm | each | 450.00 |
| 7261 | C.P. Brass angle valve 15 mm | each | 390.00 |
| 7400 | 15 mm PTMT bib cock | each | 75.00 |
| 7401 | 15 mm PTMT bib cock with flange (fancy) | each | 110.00 |
| 7402 | 15 mm PTMT bib cock long body with flange | each | 122.00 |
| 7403 | 15 mm dia PTMT stop cock (male thread) | each | 75.00 |
| 7405 | 20 mm dia PTMT stop cock | each | 102.00 |
| 7406 | PTMT pillar cock | each | 129.00 |
| 7407 | PTMT push cock 15 mm dia | each | 65.00 |
| 7408 | PTMT push cock 12 mm dia 20 mm BSP | each | 60.00 |
| 7409 | PTMT grating 100 mm dia | each | 21.00 |
| 7410 | PTMT Pillar cock (fancy) 15 mm foam flow | each | 144.00 |
| 7411 | 125 mm grating with waste hole | each | 32.00 |
| 7412 | Rectangular type with openable circular lid 150 mm size 18 mm high with 100 mm dia (110 gm) | each | 122.00 |
| 7415 | Double acting air valve 50 mm | each | 3900.00 |
| 7416 | Double acting air valve 80 mm | each | 4750.00 |
| 7417 | Double acting air valve 100 mm | each | 6200.00 |
| 7418 | Water meter (including testing charges) 80 mm | each | 2130.00 |
| 7419 | Water meter (including testing charges) 100 mm | each | 3300.00 |
| 7420 | Water meter (including testing charges) 150 mm | each | 5000.00 |
| 7421 | Water meter (including testing charges) 200 mm | each | 5400.00 |
| 7422 | Dirt box strainer 80 mm | each | 2810.00 |
| 7423 | Dirt box strainer 100 mm | each | 4580.00 |
| 7424 | Dirt box strainer 150 mm | each | 5810.00 |
| 7425 | Dirt box strainer 200 mm | each | 8250.00 |
| 7495 | PTMT Ball Cock 15mm complete with Epoxy Coated Aluminium Rod & H.D. Ball | each | 105.00 |
| 7496 | PTMT Ball Cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball | each | 140.00 |
| 7497 | PTMT Ball Cock 25mm complete with Epoxy Coated Aluminium Rod & H.D. Ball | each | 300.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-------|-----------|
| 7498 | PTMT Ball Cock 40mm complete with Epoxy Coated Aluminium Rod & H.D. Ball | each | 501.00 |
| 7499 | PTMT Ball Cock 50mm complete with Epoxy Coated Aluminium Rod & H.D. Ball | each | 913.00 |
| 7500 | PTMT Angle Stop cock with Flange 15 mm | each | 102.00 |
| 7501 | PTMT Swiveling shower 15 mm | each | 75.00 |
| 7509 | PTMT Soap Dish/Holder 138x102x75 mm | each | 85.00 |
| 7651 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 100 mm dia | metre | 800.00 |
| 7652 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 150 mm dia | metre | 1200.00 |
| 7653 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 200 mm dia | metre | 1650.00 |
| 7654 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 250 mm dia | metre | 2300.00 |
| 7655 | Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 300 mm dia | metre | 2860.00 |
| 7656 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 350 mm dia | metre | 3510.00 |
| 7657 | Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 400 mm dia | metre | 4500.00 |
| 7658 | Ductile Iron class K - 9 pipe Conforming to 1.S. 8329 - 450 mm dia | metre | 5200.00 |
| 7659 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 500 mm dia | metre | 6580.00 |
| 7660 | Ductile Iron class K -9 pipe Conforming to I.S. 8329 - 600 mm dia | metre | 7930.00 |
| 7661 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 700 mm dia | metre | 11000.00 |
| 7662 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 750 mm dia | metre | 11900.00 |
| 7663 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 800 mm dia | metre | 12000.00 |
| 7664 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 900 mm dia | metre | 14500.00 |
| 7665 | Ductile Iron class K - 9 pipe Conforming to I.S. 8329 - 1000 mm dia | metre | 16300.00 |
| 7666 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 100 mm dia | each | 30.00 |
| 7668 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 150 mm dia | each | 38.00 |
| 7669 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 200 mm dia | each | 66.00 |
| 7670 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 250 mm dia | each | 78.00 |
| 7671 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 300 mm dia | each | 115.00 |
| 7672 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 350 mm dia | each | 132.00 |
| 7673 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 400 mm dia | each | 240.00 |
| 7674 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 450 mm dia | each | 280.00 |
| 7675 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 500 mm dia | each | 305.00 |
| 7676 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 600 mm dia | each | 380.00 |
| 7677 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 700 mm dia | each | 575.00 |
| 7678 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 750 mm dia | each | 690.00 |
| 7679 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 800 mm dia | each | 760.00 |
| 7680 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 900 mm dia | each | 1000.00 |
| 7681 | Rubber Gaskets Conforming to I.S 5382 of S.B.R quality 1000 mm dia | each | 1200.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|---------|-----------|
| 7682 | Ductile Iron K - 12 specials suitable for push on jointing up to 600 mm dia | quintal | 13000.00 |
| 7683 | Ductile Iron K - 12 specials suitable for push on jointing over 600 mm dia | quintal | 18000.00 |
| 7684 | Ductile Iron specials suitable for mechanical jointing as per I.S. 9523 - up to 600 mm dia | quintal | 13700.00 |
| 7685 | Ductile Iron Specials suitable for mechanical jointing as per I.S. 9523 over 600 mm dia | quintal | 19650.00 |
| 7686 | Ductile Iron Pipe Class K-9 flanges and welding 100 mm dia | metre | 1155.00 |
| 7687 | Ductile Iron Pipe Class K-9 flanges and welding 150 mm dia | metre | 1733.00 |
| 7688 | Ductile Iron Pipe Class K-9 flanges and welding 200 mm dia | metre | 2179.00 |
| 7689 | Ductile Iron Pipe Class K-9 flanges and welding 250 mm dia | metre | 3098.00 |
| 7690 | Ductile Iron Pipe Class K-9 flanges and welding 300 mm dia | metre | 3980.00 |
| 7691 | Ductile Iron Pipe Class K-9 flanges and welding 350 mm dia | metre | 5019.00 |
| 7692 | Ductile Iron Pipe Class K-9 flanges and welding 400 mm dia | metre | 6458.00 |
| 7693 | Ductile Iron Pipe Class K-9 flanges and welding 450 mm dia | metre | 6776.00 |
| 7694 | Ductile Iron Pipe Class K-9 flanges and welding 500 mm dia | metre | 9639.00 |
| 7695 | Ductile Iron Pipe Class K-9 flanges and welding 600 mm dia | metre | 12758.00 |
| 7696 | Ductile Iron Pipe Class K-9 flanges and welding 700 mm dia | metre | 15089.00 |
| 7697 | S&S Centrifugally (Spun) C.I. Pipe class LA 100 mm dia | metre | 900.00 |
| 7698 | S&S Centrifugally (Spun) C.I. Pipe class LA 125 mm dia | metre | 1120.00 |
| 7699 | S&S Centrifugally (Spun) C.I. Pipe class LA 150 mm dia | metre | 1350.00 |
| 7700 | S&S Centrifugally (Spun) C.I. Pipe class LA 200 mm dia | metre | 2300.00 |
| 7701 | S&S Centrifugally (Spun) C.I. Pipe class LA 250 mm dia | metre | 3000.00 |
| 7702 | S&S Centrifugally (Spun) C.I. Pipe class LA 300 mm dia | metre | 4050.00 |
| 7703 | S&S Centrifugally (Spun) C.I. Pipe class LA 350 mm dia | metre | 4850.00 |
| 7704 | S&S Centrifugally (Spun) C.I. Pipe class LA 400 mm dia | metre | 6400.00 |
| 7705 | S&S Centrifugally (Spun) C.I. Pipe class LA 450 mm dia | metre | 7750.00 |
| 7706 | S&S Centrifugally (Spun) C.I. Pipe class LA 500 mm dia | metre | 9000.00 |
| 7707 | S&S Centrifugally (Spun) C.I. Pipe class LA 600 mm dia | metre | 12595.00 |
| 7708 | S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing up to 300 mm dia | quintal | 5450.00 |
| 7709 | S&S Centrifugally (Spun) C.I. Pipe Specials as per IS 1538 suitable for lead jointing over 300 mm dia | quintal | 6510.00 |
| 7710 | S&S Centrifugally (Spun) C.I. Pipe specials suitable for mechanical joint as per I.S. 13382 up to 300 mm dia | quintal | 9000.00 |
| 7711 | S&S Centrifugally (Spun) C.I. Pipe Specials suitable for mechanical joint as per I.S. 13382 over 300 mm dia | quintal | 9500.00 |
| 7712 | Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 100 mm dia | metre | 1375.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-------|-----------|
| 7713 | Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 150 mm dia | metre | 2150.00 |
| 7714 | Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 200 mm dia | metre | 3400.00 |
| 7715 | Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 250 mm dia | metre | 4100.00 |
| 7716 | Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 300 mm dia | metre | 5240.00 |
| 7717 | Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 350 mm dia | metre | 6600.00 |
| 7718 | Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 400 mm dia | metre | 8550.00 |
| 7719 | Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 450 mm dia | metre | 10900.00 |
| 7720 | Screwed double flanged centrifugally cast (spun) C./. Pipe of Class B conforming to I.S. 1536, - 500 mm dia | metre | 13560.00 |
| 7721 | Screwed double flanged centrifugally cast (spun) C.I. Pipe of Class B conforming to I.S. 1536, - 600 mm dia | metre | 18800.00 |
| 7722 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 100 mm dia | metre | 775.00 |
| 7723 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 150 mm dia | metre | 1120.00 |
| 7724 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 200 mm dia | metre | 1550.00 |
| 7725 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 250 mm dia | metre | 2100.00 |
| 7726 | Ductile Iron Class K- 7 pipe conforming to i.S. 8329 - 300 mm dia | metre | 2771.00 |
| 7727 | Ductile Iron Class K- 7 pipe conforming to i.S. 8329 - 350 mm dia | metre | 3354.00 |
| 7728 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 400 mm dia | metre | 4015.00 |
| 7729 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 450 mm dia | metre | 4852.00 |
| 7730 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 500 mm dia | metre | 5735.00 |
| 7731 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 600 mm dia | metre | 7402.00 |
| 7732 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 700 mm dia | metre | 9613.00 |
| 7733 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 800 mm dia | metre | 12100.00 |
| 7734 | Ductile Iron Class K- 7 pipe conforming to I.S. 8329 - 900 mm dia | metre | 15603.00 |
| 7735 | Ductile Iron Class K-7 pipe conforming to I.S. 8329 - 1000 mm dia | metre | 17032.00 |
| 7859 | P.T.M.T. Bib cock with nozzle 15 mm | each | 84.00 |
| 7861 | P.T.M.T. Stop cock (concealed) 15 mm | each | 125.00 |
| 7862 | 15 mm nominal bore and 30 cm length PVC connection pipe with P.T.M.T. Nuts | each | 32.00 |
| 7863 | 15 mm nominal bore and 45 cm length PVC connection pipe with P.T.M.T. Nuts | each | 34.00 |
| 7864 | P.T.M.T. extension nipple 15 mm | each | 19.00 |
| 7865 | P.T.M.T. extension nipple 20 mm | each | 28.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-------|-----------|
| 7866 | P.T.M.T. extension nipple 25 mm | each | 40.00 |
| 8300 | 1216 mm PE-AL-PE Composite pressure pipe | metre | 62.00 |
| 8301 | 1620 mm PE-AL-PE Composite pressure pipe | metre | 78.00 |
| 8302 | 2025 mm PE-AL-PE Composite pressure pipe | metre | 110.00 |
| 8303 | 2532 mm PE-AL-PE Composite pressure pipe | metre | 157.00 |
| 8304 | 3240 mm PE-AL-PE Composite pressure pipe | metre | 235.00 |
| 8305 | 4050 mm PE-AL-PE Composite pressure pipe | metre | 330.00 |
| 8636 | Chlorinated Polyvinyl - chloride (CPVC) pipe 15 mm outer dia | metre | 35.00 |
| 8637 | Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia | metre | 54.00 |
| 8638 | Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia | metre | 78.00 |
| 8639 | Chlorinated Polyvinyl - chloride (CPVC) pipe 32 mm outer dia | metre | 117.00 |
| 8640 | Chlorinated Polyvinyl - chloride (CPVC) pipe 40 mm outer dia | metre | 160.00 |
| 8641 | Chlorinated Polyvinyl - chloride (CPVC) pipe 50 mm outer dia | metre | 268.00 |
| 8642 | Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner dia | metre | 651.00 |
| 8643 | Chlorinated Polyvinyl - chloride (CPVC) pipe 75 mm inner dia | metre | 730.00 |
| 8644 | Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia | metre | 985.00 |
| 8645 | Chlorinated Polyvinyl - chloride (CPVC) pipe 150 mm inner dia | metre | 1462.00 |
| 8701 | SS pipe 304 grades with press fit technology as per JIS 3448 standard 48.60 mm outer dia | metre | 584.00 |
| 8702 | Coupling/Socket fittings for 15.88 mm outer dia SS pipe | each | 42.00 |
| 8779 | SS pipe 304 grades with press fit technology as per JIS 3448 standard 15.88 mm outer dia | metre | 142.00 |
| 8780 | SS pipe 304 grades with press fit technology as per JIS 3448 standard 22.22 mm outer dia | metre | 254.00 |
| 8781 | SS pipe 304 grades with press fit technology as per JIS 3448 standard 28.58 mm outer dia | metre | 324.00 |
| 8782 | SS pipe 304 grades with press fit technology as per JIS 3448 standard 34.00 mm outer dia | metre | 462.00 |
| 8783 | SS pipe 304 grades with press fit technology as per JIS 3448 standard 42.70 mm outer dia | metre | 479.00 |
| 8786 | Coupling/Socket fittings for 22.22 mm outer dia SS pipe | each | 63.00 |
| 8787 | Coupling/Socket fittings for 28.58 mm outer dia SS pipe | each | 89.00 |
| 8788 | Coupling/Socket fittings for 34.00 mm outer dia SS pipe | each | 131.00 |
| 8789 | Coupling/Socket fittings for 42.70 mm outer dia SS pipe | each | 158.00 |
| 8790 | Coupling/Socket fittings for 48.60 mm outer dia SS pipe | each | 180.00 |
| 8791 | Reducer for 22.22 mm X 15.88 mm outer Dia SS pipe | each | 103.00 |
| 8792 | Reducer for 28.58 mm X 15.88 mm outer Dia SS pipe | each | 141.00 |
| 8793 | Reducer for 28.58 mm X 22.22 mm outer Dia SS pipe | each | 145.00 |
| 8794 | Reducer for 34.00 mm X 15.88 mm outer Dia SS pipe | each | 184.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|------|-----------|
| 8795 | Reducer for 34.00 mm X 22.22 mm outer Dia SS pipe | each | 187.00 |
| 8796 | Reducer for 34.00 mm X 28.58 mm outer Dia SS pipe | each | 190.00 |
| 8797 | Reducer for 42.70 mm X 15.88 mm outer Dia SS pipe | each | 359.00 |
| 8798 | Reducer for 42.70 mm X 22.22 mm outer Dia SS pipe | each | 362.00 |
| 8799 | Reducer for 42.70 mm X 28.58 mm outer Dia SS pipe | each | 362.00 |
| 8800 | Reducer for 42.70 mm X 34.00 mm outer Dia SS pipe | each | 387.00 |
| 8801 | Reducer for 48.60 mm X 15.88 mm outer Dia SS pipe | each | 410.00 |
| 8802 | Reducer for 48.60 mm X 22.22 mm outer Dia SS pipe | each | 410.00 |
| 8803 | Reducer for 48.60 mm X 28.58 mm outer Dia SS pipe | each | 410.00 |
| 8804 | Reducer for 48.60 mm X 34.00 mm outer Dia SS pipe | each | 410.00 |
| 8805 | Reducer for 48.60 mm X 42.70 mm outer Dia SS pipe | each | 410.00 |
| 8806 | Slip Coupling / Socket 15.88 mm outer dia SS pipe | each | 47.00 |
| 8807 | Slip Coupling / Socket 22.22 mm outer dia SS pipe | each | 63.00 |
| 8088 | Slip Coupling / Socket 28.58 mm outer dia SS pipe | each | 89.00 |
| 8809 | Slip Coupling / Socket 34.00 mm outer dia SS pipe | each | 131.00 |
| 8810 | Slip Coupling / Socket 42.70 mm outer dia SS pipe | each | 158.00 |
| 8811 | Slip Coupling / Socket 48.60 mm outer dia SS pipe | each | 170.00 |
| 8812 | Elbow 90° for 15.88 mm outer dia SS pipe | each | 58.00 |
| 8813 | Elbow 90° for 22.22 mm outer dia SS pipe | each | 63.00 |
| 8814 | Elbow 90° for 28.58 mm outer dia SS pipe | each | 96.00 |
| 8815 | Elbow 90° for 34.00 mm outer dia SS pipe | each | 109.00 |
| 8816 | Elbow 90° for 42.70 mm outer dia SS pipe | each | 116.00 |
| 8817 | Elbow 90° for 48.60 mm outer dia SS pipe | each | 150.00 |
| 8818 | Reducing Elbow 90 $^{\circ}$ for 22.22 mm X 15.88 mm outer dia SS pipe | each | 148.00 |
| 8819 | Reducing Elbow 90° for 28.58 mm X 15.88 mm outer dia SS pipe | each | 191.00 |
| 8820 | Reducing Elbow 90° for 28.58 mm X 22.22 mm outer dia SS pipe | each | 221.00 |
| 8821 | Reducing Elbow 90 $^{\circ}$ for 34.00 mm X 22.22 mm outer dia SS pipe | each | 287.00 |
| 8822 | Reducing Elbow 90 $^{\circ}$ for 34.00 mm X 28.58 mm outer dia SS pipe | each | 396.00 |
| 8823 | Reducing Elbow 90 $^{\circ}$ for 42.70 mm X 34.00 mm outer dia SS pipe | each | 179.00 |
| 8824 | Equal Tee for 15.88 mm outer dia SS pipe | each | 159.00 |
| 8825 | Equal Tee for 22.22 mm outer dia SS pipe | each | 231.00 |
| 8826 | Equal Tee for 28.58 mm outer dia SS pipe | each | 273.00 |
| 8827 | Equal Tee for 34.00 mm outer dia SS pipe | each | 437.00 |
| 8828 | Equal Tee for 42.70 mm outer dia SS pipe | each | 683.00 |
| 8829 | Equal Tee for 48.60 mm outer dia SS pipe | each | 887.00 |
| 8830 | Reducing Tee for 22.22 mm X 15.88 mm outer dia SS | each | 179.00 |
| 8831 | Reducing Tee for 28.58 mm X 15.88 mm outer dia SS pipe | each | 273.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 8832 | Reducing Tee for 28.58 mm X 22.22 mm outer dia SS pipe | each | 273.00 |
| 8833 | Reducing Tee for 34.00 mm X 15.88 mm outer dia SS pipe | each | 437.00 |
| 8834 | Reducing Tee for 34.00 mm X 22.22 mm outer dia SS pipe | each | 437.00 |
| 8835 | Reducing Tee for 34.00 mm X 28.58 mm outer dia SS pipe | each | 437.00 |
| 8836 | Reducing Tee for 42.70 mm X 15.88 mm outer dia SS pipe | each | 683.00 |
| 8837 | Reducing Tee for 42.70 mm X 22.22 mm outer dia SS pipe | each | 683.00 |
| 8838 | Reducing Tee for 42.70 mm X 28.58 mm outer dia SS pipe | each | 683.00 |
| 8839 | Reducing Tee for 42.70 mm X 34.00 mm outer dia SS pipe | each | 683.00 |
| 8840 | Reducing Tee for 48.60 mm X 15.88 mm outer dia SS pipe | each | 887.00 |
| 8841 | Reducing Tee for 48.60 mm X 22.22 mm outer dia SS pipe | each | 887.00 |
| 8842 | Reducing Tee for 48.60 mm X 28.58 mm outer dia SS pipe | each | 887.00 |
| 8843 | Reducing Tee for 48.60mm X 34.00 mm outer dia SS pipe | each | 887.00 |
| 8844 | Reducing Tee for 48.60mm X 42.70mm outer dia SS pipe | each | 887.00 |
| 8845 | Stainless steel Male thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded | each | 179.00 |
| 8846 | Stainless steel Male thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded | each | 200.00 |
| 8847 | Stainless steel Male thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded | each | 205.00 |
| 8848 | Stainless steel Male thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded | each | 273.00 |
| 8849 | Stainless steel Male thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded | each | 273.00 |
| 8850 | Stainless steel Male thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded | each | 273.00 |
| 8851 | Stainless steel Male thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded | each | 437.00 |
| 8852 | Stainless steel Male thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded | each | 437.00 |
| 8853 | Stainless steel Male thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded | each | 437.00 |
| 8854 | Stainless steel Male thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded | each | 437.00 |
| 8855 | Stainless steel Male thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded | each | 683.00 |
| 8856 | Stainless steel Male thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded | each | 683.00 |
| 8857 | Stainless steel Male thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded | each | 683.00 |
| 8858 | Stainless steel Male thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded | each | 683.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 8859 | Stainless steel Male thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded | each | 683.00 |
| 8860 | Stainless steel Male thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded | each | 887.00 |
| 8861 | Stainless steel Male thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded | each | 887.00 |
| 8862 | Stainless steel Male thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded | each | 887.00 |
| 8863 | Stainless steel Male thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded | each | 887.00 |
| 8864 | Stainless steel Male thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded | each | 887.00 |
| 8865 | Stainless steel Male thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded | each | 887.00 |
| 8866 | Stainless steel Female thread Tee for 15.88 mm outer dia X 15 mm nominal dia threaded | each | 179.00 |
| 8867 | Stainless steel Female thread Tee for 22.22 mm outer dia X 15 mm nominal dia threaded | each | 200.00 |
| 8868 | Stainless steel Female thread Tee for 22.22 mm outer dia X 20 mm nominal dia threaded | each | 200.00 |
| 8869 | Stainless steel Female thread Tee for 28.58 mm outer dia X 15 mm nominal dia threaded | each | 273.00 |
| 8870 | Stainless steel Female thread Tee for 28.58 mm outer dia X 20 mm nominal dia threaded | each | 273.00 |
| 8871 | Stainless steel Female thread Tee for 28.58 mm outer dia X 25 mm nominal dia threaded | each | 273.00 |
| 8872 | Stainless steel Female thread Tee for 34.00 mm outer dia X 15 mm nominal dia threaded | each | 437.00 |
| 8873 | Stainless steel Female thread Tee for 34.00 mm outer dia X 20 mm nominal dia threaded | each | 437.00 |
| 8874 | Stainless steel Female thread Tee for 34.00 mm outer dia X 25 mm nominal dia threaded | each | 437.00 |
| 8875 | Stainless steel Female thread Tee for 34.00 mm outer dia X 32 mm nominal dia threaded | each | 437.00 |
| 8876 | Stainless steel Female thread Tee for 42.70 mm outer dia X 15 mm nominal dia threaded | each | 683.00 |
| 8877 | Stainless steel Female thread Tee for 42.70 mm outer dia X 20 mm nominal dia threaded | each | 683.00 |
| 8878 | Stainless steel Female thread Tee for 42.70 mm outer dia X 25 mm nominal dia threaded | each | 683.00 |
| 8879 | Stainless steel Female thread Tee for 42.70 mm outer dia X 32 mm nominal dia threaded | each | 683.00 |
| 8880 | Stainless steel Female thread Tee for 42.70 mm outer dia X 40 mm nominal dia threaded | each | 683.00 |
| | | | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 8881 | Stainless steel Female thread Tee for 48.60 mm outer dia X 15 mm nominal dia threaded | each | 887.00 |
| 8882 | Stainless steel Female thread Tee for 48.60 mm outer dia X 20 mm nominal dia threaded | each | 887.00 |
| 8883 | Stainless steel Female thread Tee for 48.60 mm outer dia X 25 mm nominal dia threaded | each | 887.00 |
| 8884 | Stainless steel Female thread Tee for 48.60 mm outer dia X 32 mm nominal dia threaded | each | 887.00 |
| 8885 | Stainless steel Female thread Tee for 48.60 mm outer dia X 40 mm nominal dia threaded | each | 887.00 |
| 8886 | Stainless steel Female thread Tee for 48.60 mm outer dia X 50 mm nominal dia threaded | each | 887.00 |
| 8887 | Stainless steel Female threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded | each | 190.00 |
| 8888 | Stainless steel Female threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded | each | 230.00 |
| 8889 | Stainless steel Female threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded | each | 237.00 |
| 8890 | Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 15 mm nominal threaded | each | 277.00 |
| 8891 | Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded | each | 286.00 |
| 8892 | Stainless steel Female threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded | each | 337.00 |
| 8893 | Stainless steel Female threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded | each | 409.00 |
| 8894 | Stainless steel Female threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded | each | 538.00 |
| 8895 | Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded | each | 576.00 |
| 8896 | Stainless steel Female threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded | each | 681.00 |
| 8897 | Stainless steel Female threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded | each | 838.00 |
| 8898 | Stainless steel Female threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded | each | 965.00 |
| 8899 | Stainless steel Male threaded Connector/Adapter for 15.88 mm outer dia X 15 mm nominal threaded | each | 193.00 |
| 8900 | Stainless steel Male threaded Connector/Adapter for 22.22 mm outer dia X 15 mm nominal threaded | each | 227.00 |
| 8901 | Stainless steel Male threaded Connector/Adapter for 22.22 mm outer dia X 20 mm nominal threaded | each | 248.00 |
| 8902 | Stainless steel Male threaded Connector/Adapter for 28.58 mm outer dia X 20 mm nominal threaded | each | 313.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 8903 | Stainless steel Male threaded Connector/Adapter for 28.58 mm outer dia X 25 mm nominal threaded | each | 320.00 |
| 8904 | Stainless steel Male threaded Connector/Adapter for 34.00 mm outer dia X 25 mm nominal threaded | each | 461.00 |
| 8905 | Stainless steel Male threaded Connector/Adapter for 34.00 mm outer dia X 32 mm nominal threaded | each | 565.00 |
| 8906 | Stainless steel Male threaded Connector/Adapter for 42.70 mm outer dia X 32 mm nominal threaded | each | 649.00 |
| 8907 | Stainless steel Male threaded Connector/Adapter for 42.70 mm outer dia X 40 mm nominal threaded | each | 726.00 |
| 8908 | Stainless steel Male threaded Connector/Adapter for 48.60 mm outer dia X 40 mm nominal threaded | each | 840.00 |
| 8909 | Stainless steel Male threaded Connector/Adapter for 48.60 mm outer dia X 50 mm nominal threaded | each | 1138.00 |
| 8910 | Stainless steel Valve Connector for 15.88 mm outer dia X 15 mm nominal dia threaded | each | 234.00 |
| 8911 | Stainless steel Valve Connector for 22.22 mm outer dia X 15 mm nominal dia threaded | each | 276.00 |
| 8912 | Stainless steel Valve Connector for 22.22 mm outer dia X 20 mm nominal dia threaded | each | 295.00 |
| 8913 | Stainless steel Valve Connector for 28.58 mm outer dia X 25 mm nominal dia threaded | each | 424.00 |
| 8914 | Stainless steel Valve Connector for 34.00 mm outer dia X 32 mm nominal dia threaded | each | 629.00 |
| 8915 | Stainless steel Valve Connector for 42.70 mm outer dia X 40 mm nominal dia threaded | each | 875.00 |
| 8916 | Stainless steel Valve Connector for 48.60 mm outer dia X 50 mm nominal dia threaded | each | 1176.00 |
| 8917 | SS Female Threaded Elbow 90° for 15.88 mm outer dia X 15 mm nominal dia threaded | each | 150.00 |
| 8918 | Stainless steel Female Threaded Elbow 90° for 22.22 mm outer dia X 15 mm nominal dia threaded | each | 191.00 |
| 8919 | Stainless steel Female Threaded Elbow 90° for 22.22 mm outer dia X 20 mm nominal dia threaded | each | 191.00 |
| 8920 | Stainless steel Female Threaded Elbow 90° for 28.58 mm outer dia X 25 mm nominal dia threaded | each | 205.00 |
| 8921 | Stainless steel Female Threaded Elbow 90° for 34.00 mm outer dia X 32 mm nominal dia threaded | each | 287.00 |
| 8922 | Stainless steel Female Threaded Elbow 90° for 42.70 mm outer dia X 32 mm nominal dia threaded | each | 478.00 |
| 8923 | Stainless steel Female Threaded Elbow 90° for 42.70 mm outer dia X40 mm nominal dia threaded | each | 478.00 |
| 8924 | Stainless steel Female Threaded Elbow 90° for 48.60 mm outer dia X 40 mm nominal dia threaded | each | 683.00 |

| Code No. | Description | Unit | Rate ₹ | |
|-------------|---|------|-----------|--|
| 8925 | Stainless steel Female Threaded Elbow 90° for 48.60 mm outer dia X 50 mm nominal dia threaded | each | 683.00 | |
| 8926 | Stainless steel Male Threaded Elbow 90° for 15.88 mm outer dia X 15 mm nominal dia threaded | each | 191.00 | |
| 8927 | Stainless steel Male Threaded Elbow 90° for 22.22 mm outer dia x 15 mm nominal dia threaded | each | 205.00 | |
| 8928 | Stainless steel Male Threaded Elbow 90° for 22.22 mm outer dia x 20 mm nominal dia threaded | each | 205.00 | |
| 8929 | Stainless steel Male Threaded Elbow 90° for 28.58 mm outer dia x 25 mm nominal dia threaded | each | 205.00 | |
| 8930 | Stainless steel MaleThreaded Elbow 90° for 34.00 mm outer dia x 25 mm nominal dia threaded | each | 287.00 | |
| 8931 | Stainless steel Male Threaded Elbow 90° for 34.00 mm outer dia x 32 mm nominal dia threaded | each | 287.00 | |
| 8932 | Stainless steel Male Threaded Elbow 90° for 42.70 mm outer dia x 32 mm nominal dia threaded | each | 478.00 | |
| 8933 | Stainless steel Male Threaded Elbow 90° for 42.70 mm outer dia x 40 mm nominal dia threaded | each | 478.00 | |
| 8934 | Stainless steel Male Threaded Elbow 90° for 48.60 mm outer dia x 40 mm nominal dia threaded | each | 683.00 | |
| 8935 | Stainless steel Male Threaded Elbow 90° for 48.60 mm outer dia x 50 mm nominal dia threaded | each | 683.00 | |
| 8936 | Stainless steel Cap for 15.88 mm outer dia pipe | each | 45.00 | |
| 8937 | Stainless steel Cap for 22.22 mm outer dia pipe | each | 64.00 | |
| 8938 | Stainless steel Cap for 28.58 mm outer dia pipe | each | 84.00 | |
| 8939 | Stainless steel Cap for 34.00 mm outer dia pipe | each | 173.00 | |
| 8940 | Stainless steel Cap for 42.70 mm outer dia pipe | each | 253.00 | |
| 8941 | Stainless steel Cap for 48.60 mm outer dia pipe | each | 330.00 | |
| 8942 | Stainless steel Pipe Bridge for 15.88 mm outer dia pipe | each | 214.00 | |
| 8943 | Stainless steel Pipe Bridge for 15.88 mm outer dia pipe | each | 271.00 | |
| 8944 | Stainless steel Pipe Bridge for 28.58 mm outer dia pipe | each | 407.00 | |
| 9977 | Carriage | L.S. | 1.73 | |
| 9988 | Carriage and sundries | L.S. | 1.73 | |
| 9999 | Sundries | L.S. | 1.73 | |

18.0 WATER SUPPLY

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|-------|-----------|
| | PE-AL-P | E COMPOSITE PRESSORE PIPES | | |
| 18.1 | (PE-AL-F U.V. stab cold wate including blend ar reducers spacing. | ng and fixing Polyethelene-Aluminium-Polyethelene PE) Composite Pressure Pipes conforming to IS - 15450, bilized with carbon black having thermal stability for hot & er supply, capable to withstand temperature up to 80°C, all special fittings of composite material (engineering plastic and brass inserts wherever required) e.g. elbows, tees, a, couplers & connectors etc., with clamps at 1.00 metre. This includes testing of joints complete as per direction of meer in charge. | | |
| | INTERN | AL WORK - EXPOSED ON WALL | | |
| | 18.1.1 | 1216 (16 mm OD) pipe | metre | 175.40 |
| | 18.1.2 | 1620 (20 mm OD) pipe | metre | 207.85 |
| | 18.1.3 | 2025 (25 mm OD) pipe | metre | 264.50 |
| | 18.1.4 | 2532 (32 mm OD) pipe | metre | 349.45 |
| | 18.1.5 | 3240 (40 mm OD) pipe | metre | 498.75 |
| | 18.1.6 | 4050 (50 mm OD) pipe | metre | 642.20 |
| 18.2 | ALPE) C stabilized water sup all specia and bras couplers This incli | g and fixing Polyethelene-Aluminium- Polyethelene (PE-composite Pressure Pipes conforming to IS - 15450, U.V. d with carbon black having thermal stability for hot & cold oply, capable to withstand temperature up to 80°C, including all fittings of composite material (engineering plastic blend is inserts wherever required) e.g. elbows, tees, reducers, & connectors etc., with clamps at 1.00 metre spacing. Suddes the costs of cutting chases and including testing of implete as per direction of the engineer in charge. | | |
| | the wall | ALED WORK, including cutting chases and making good etc. | | |
| | 18.2.1 | 1216 (16 mm OD) pipe | metre | 301.10 |
| | 18.2.2 | 1620 (20 mm OD) pipe | metre | 333.60 |
| | 18.2.3 | 2025 (25 mm OD) pipe | metre | 398.65 |
| | 18.2.4 | 2532 (32 mm OD) pipe | metre | 494.20 |
| 18.3 | (PE-AL-F U.V. stab cold wate including blend ar reducers | g and fixing Polyethelene-Aluminium- Polyethelene PE) Composite Pressure Pipes conforming to IS - 15450, polized with carbon black having thermal stability for hot & er supply, capable to withstand temperature up to 80°C, all special fittings of composite material (engineering plastic and brass inserts wherever required) e.g. elbows, tees, so couplers & connectors etc., with trenching, refilling and figorits complete as per direction of the engineer in charge. | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|-------|-----------|
| | External | l work | | |
| | 18.3.1 | 1216 (16 mm OD) pipe | metre | 161.40 |
| | 18.3.2 | 1620 (20 mm OD) pipe | metre | 185.55 |
| | 18.3.3 | 2025 (25 mm OD) pipe | metre | 233.90 |
| | 18.3.4 | 2532 (32 mm OD) pipe | metre | 304.85 |
| | 18.3.5 | 3240 (40 mm OD) pipe | metre | 434.40 |
| | 18.3.6 | 4050 (50 mm OD) pipe | metre | 577.85 |
| | C.P.V.C. | PIPES | | |
| 18.7 | having the CPVC plus clamps a with one | g and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, nermal stability for hot & cold water supply, including all ain & brass threaded fittings, including fixing the pipe with at 1.00 m spacing. This includes jointing of pipes & fittings step CPVC solvent cement and testing of joints complete rection of Engineer in Charge. | | |
| | Internal | work - Exposed on wall | | |
| | 18.7.1 | 15 mm nominal outer dia Pipes | metre | 142.95 |
| | 18.7.2 | 20 mm nominal outer dia Pipes | metre | 179.95 |
| | 18.7.3 | 25 mm nominal outer dia Pipes | metre | 216.20 |
| | 18.7.4 | 32 mm nominal outer dia Pipes | metre | 289.05 |
| | 18.7.5 | 40 mm nominal outer dia Pipes | metre | 385.50 |
| | 18.7.6 | 50 mm nominal outer dia Pipes | metre | 548.55 |
| 18.8 | having the CPVC plat 1.00 m step CPV good the | g and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, nermal stability for hot & cold water supply, including all ain & brass threaded fittings, i/c fixing the pipe with clamps a spacing. This includes jointing of pipes & fittings with one /C solvent cement and the cost of cutting chases and making same including testing of joints complete as per direction per in Charge. | | |
| | Conceal walls etc | ed work, including cutting chases and making good the | | |
| | 18.8.1 | 15 mm nominal outer dia Pipes | metre | 246.20 |
| | 18.8.2 | 20 mm nominal outer dia Pipes | metre | 284.85 |
| | 18.8.3 | 25 mm nominal outer dia Pipes | metre | 333.60 |
| | 18.8.4 | 32 mm nominal outer dia Pipes | metre | 412.90 |
| 18.9 | having the CPVC plus & fittings | g and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, nermal stability for hot & cold water supply including all ain & brass threaded fittings This includes jointing of pipes with one step CPVC solvent cement, trenching, refilling & f joints complete as per direction of Engineer in Charge. | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|------------|---|-------|-----------|
| | External | work | | |
| | 18.9.1 | 15 mm nominal outer dia Pipes | metre | 120.65 |
| | 18.9.2 | 20 mm nominal outer dia Pipes | metre | 149.30 |
| | 18.9.3 | 25 mm nominal outer dia Pipes | metre | 191.65 |
| | 18.9.4 | 32 mm nominal outer dia Pipes | metre | 250.55 |
| | 18.9.5 | 40 mm nominal outer dia Pipes | metre | 321.15 |
| | 18.9.6 | 50 mm nominal outer dia Pipes | metre | 484.25 |
| | 18.9.7 | 62.50 mm nominal inner dia Pipes | metre | 1081.75 |
| | 18.9.8 | 75 mm nominal inner dia Pipes | metre | 1201.05 |
| | 18.9.9 | 100 mm nominal inner dia Pipes | metre | 1618.10 |
| | 18.9.10 | 150 mm nominal inner dia Pipes | metre | 2408.75 |
| 18.10 | _ | and fixing G.I. pipes complete with G.I. fittings and clamps, and making good the walls etc. | | |
| | Internal v | work - Exposed on wall | | |
| | 18.10.1 | 15 mm dia nominal bore | metre | 186.40 |
| | 18.10.2 | 20 mm dia nominal bore | metre | 224.15 |
| | 18.10.3 | 25 mm dia nominal bore | metre | 247.85 |
| | 18.10.4 | 32 mm dia nominal bore | metre | 308.35 |
| | 18.10.5 | 40 mm dia nominal bore | metre | 394.15 |
| | 18.10.6 | 50 mm dia nominal bore | metre | 472.40 |
| 18.11 | i/c makin | and fixing G.I. Pipes complete with G.I. fittings and clamps, g good the walls etc. concealed pipe, including painting corrosive bitumastic paint, cutting chases and making good | | |
| | 18.11.1 | 15 mm dia nominal bore | metre | 285.70 |
| | 18.11.2 | 20 mm dia nominal bore | metre | 316.20 |
| 18.12 | • | and fixing G.I. pipes complete with G.I. fittings including and refilling etc. | | |
| | External | work | | |
| | 18.12.1 | 15 mm dia nominal bore | metre | 160.20 |
| | 18.12.2 | 20 mm dia nominal bore | metre | 186.30 |
| | 18.12.3 | 25 mm dia nominal bore | metre | 205.85 |
| | 18.12.4 | 32 mm dia nominal bore | metre | 247.40 |
| | 18.12.5 | 40 mm dia nominal bore | metre | 301.05 |
| | 18.12.6 | 50 mm dia nominal bore | metre | 342.70 |
| | 18.12.7 | 65 mm dia nominal bore | metre | 451.70 |
| | 18.12.8 | 80 mm dia nominal bore | metre | 576.30 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|------|-----------|
| 18.13 | _ | nnection of G.I. distribution branch with G.I. main of following roviding and fixing tee, including cutting and threading the complete: | | |
| | 18.13.1 | 25 to 40 mm nominal bore | each | 394.15 |
| | 18.13.2 | 50 to 80 mm nominal bore | each | 771.20 |
| 18.14 | and thread | er meter and stop cock in G.I. pipe line including cutting ding the pipe and making long screws etc. complete (cost leter and stop cock to be paid separately). | Each | 347.70 |
| | BRASS F | TTINGS | | |
| 18.15 | Providing | and fixing brass bib cock of approved quality: | | |
| | 18.15.1 | 15 mm nominal bore | each | 260.10 |
| | 18.15.2 | 20 mm nominal bore | each | 280.40 |
| 18.16 | Providing | and fixing brass stop cock of approved quality: | | |
| | 18.16.1 | 15 mm nominal bore | each | 260.10 |
| | 18.16.2 | 20 mm nominal bore | each | 280.40 |
| 18.17 | Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): | | | |
| | 18.17.1 | 25 mm nominal bore | each | 428.20 |
| | 18.17.1A | 20 mm nominal bore | each | 396.55 |
| | 18.17.2 | 32 mm nominal bore. | each | 500.75 |
| | 18.17.3 | 40 mm nominal bore | each | 584.70 |
| | 18.17.4 | 50 mm nominal bore | each | 749.90 |
| | 18.17.5 | 65 mm nominal bore | each | 1286.80 |
| | 18.17.6 | 80 mm nominal bore | each | 1919.50 |
| 18.18 | _ | and fixing ball valve (brass) of approved quality, High or low with plastic floats complete : | | |
| | 18.18.1 | 15 mm nominal bore | each | 287.25 |
| | 18.18.2 | 20 mm nominal bore | each | 327.05 |
| | 18.18.3 | 25 mm nominal bore | each | 331.95 |
| 18.19 | Providing (screwed) | and fixing gun metal non- return valve of approved quality end) : | | |
| | 18.19.1 | 25 mm nominal bore | | |
| | | 18.19.1.1 Horizontal | each | 410.45 |
| | | 18.19.1.2 Vertical | each | 433.70 |
| | 18.19.2 | 32 mm nominal bore | | |
| | | 18.19.2.1 Horizontal | each | 552.45 |
| | | 18.19.2.2 Vertical | each | 610.55 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|----------------------------|--|---------|-----------|
| | 18.19.3 40 mm nominal bore | | | |
| | | 18.19.3.1 Horizontal | each | 682.85 |
| | | 18.19.3.2 Vertical | each | 845.45 |
| | 18.19.4 | 50 mm nominal bore | | |
| | | 18.19.4.1 Horizontal | each | 987.70 |
| | | 18.19.4.2 Vertical | each | 1080.60 |
| | 18.19.5 | 65 mm nominal bore | | |
| | | 18.19.5.1 Horizontal | each | 1768.50 |
| | | 18.19.5.2 Vertical | each | 1780.15 |
| | 18.19.6 | 80 mm nominal bore | | |
| | | 18.19.6.1 Horizontal | each | 2503.10 |
| | | 18.19.6.2 Vertical | each | 2944.50 |
| 18.20 | _ | and fixing brass ferrule with C.I. mouth cover including d tapping the main: | | |
| | 18.20.1 | 15 mm nominal bore | each | 243.60 |
| | 18.20.2 | 20 mm nominal bore | each | 280.65 |
| | 18.20.3 | 25 mm nominal bore | each | 363.70 |
| 18.21 | Providing unions: | and fixing uplasticised PVC connection pipe with brass | | |
| | 18.21.1 | 30 cm length | | |
| | | 18.21.1.1 15 mm nominal bore | each | 59.40 |
| | | 18.21.1.2 20 mm nominal bore | each | 65.20 |
| | 18.21.2 | 45 cm length | | |
| | | 18.21.2.1 15 mm nominal bore | each | 67.80 |
| | | 18.21.2.2 20 mm nominal bore | each | 82.90 |
| 18.22 | Providing | and fixing C.P. brass shower rose with 15 or 20 mm inlet: | | |
| | 18.22.1 | 100 mm diameter | each | 71.65 |
| | 18.22.2 | 150 mm diameter | each | 85.90 |
| | C.I./DUC | TILE IRON PIPES & SPECIALS | | |
| 18.23 | , , | position centrifugally cast (spun) iron S&S or flanged pipes g cost of pipe). | quintal | 152.80 |
| 18.24 | | position S&S or flanged C.I. special such as tees, bends, upers and caps etc.(excluding cost of specials). | quintal | 284.20 |
| 18.25 | _ | and laying S&S C.I. standard specials such as tees, bends, upers, caps etc. (Heavy class): | | |
| | 18.25.1 | Up to 300 mm dia | quintal | 4476.30 |
| | 18.25.2 | Over 300 mm dia | quintal | 4592.45 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|--|---------|-----------|
| 18.26 | Providing and laying flanged C.I. standard specials such as tees, bends, collars, tapers, caps etc., suitable for flanged jointing as per IS: 1538: | | | |
| | 18.26.1 | Up to 300 mm dia | quintal | 6683.15 |
| | 18.26.2 | Over 300 mm dia | quintal | 6683.15 |
| 18.27 | | and laying S&S centrifugally cast (spun) iron pipes (Class rming to IS - 1536 : | | |
| | 18.27.1 | 100 mm dia pipe | metre | 1078.25 |
| | 18.27.2 | 125 mm dia pipe | metre | 1343.80 |
| | 18.27.3 | 150 mm dia pipe | metre | 1621.60 |
| | 18.27.4 | 200 mm dia pipe | metre | 2750.55 |
| | 18.27.5 | 250 mm dia pipe | metre | 3591.65 |
| | 18.27.6 | 300 mm dia pipe | metre | 4841.60 |
| | 18.27.7 | 350 mm dia pipe | metre | 5808.35 |
| | 18.27.8 | 400 mm dia pipe | metre | 7649.30 |
| | 18.27.9 | 450 mm dia pipe | metre | 9262.10 |
| | 18.27.10 | 500 mm dia pipe | metre | 10753.40 |
| | 18.27.11 | 600 mm dia pipe | metre | 15033.60 |
| 18.28 | - | lead caulked joints to spun iron or C.I. pipes and specials, testing of joints but excluding the cost of pig lead: | | |
| | 18.28.1 | 100 mm diameter pipe | each | 224.65 |
| | 18.28.2 | 125 mm diameter pipe | each | 332.00 |
| | 18.28.3 | 150 mm diameter pipe | each | 337.20 |
| | 18.28.4 | 200 mm diameter pipe | each | 447.50 |
| | 18.28.5 | 250 mm diameter pipe | each | 559.20 |
| | 18.28.6 | 300 mm diameter pipe | each | 673.25 |
| | 18.28.7 | 350 mm diameter pipe | each | 690.85 |
| | 18.28.8 | 400 mm diameter pipe | each | 904.05 |
| | 18.28.9 | 450 mm diameter pipe | each | 1013.90 |
| | 18.28.10 | 500 mm diameter pipe | each | 1072.75 |
| | 18.28.11 | 600 mm diameter pipe | each | 1449.40 |
| 18.29 | Supplying | pig lead at site of work. | quintal | 16039.40 |
| 18.30 | • | flanged joints to double flanged C.I./ D.I. pipes and specials, testing of joints: | | |
| | 18.30.1 | 80 mm diameter pipe | each | 119.55 |
| | 18.30.2 | 100 mm diameter pipe | each | 193.85 |
| | 18.30.3 | 125 mm diameter pipe | each | 205.45 |
| | 18.30.4 | 150 mm diameter pipe | each | 243.05 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--|--|---|------|-----------|
| | 18.30.5 | 200 mm dia | ameter pipe | each | 267.45 |
| | 18.30.6 | 250 mm dia | ameter pipe | each | 369.55 |
| | 18.30.7 | 300 mm dia | ameter pipe | each | 375.35 |
| | 18.30.8 | 350 mm dia | ameter pipe | each | 512.05 |
| | 18.30.9 | 400 mm dia | ameter pipe | each | 725.15 |
| | 18.30.10 | 450 mm dia | ameter pipe | each | 896.75 |
| | 18.30.11 | 500 mm dia | ameter pipe | each | 1020.25 |
| | 18.30.12 | 600 mm dia | ameter pipe | each | 1196.75 |
| | C.I. SLUI | CE VALVES/ | FIRE HYDRANTS & FIXTURES | | |
| 18.31 | nuts, rubb separately | per insertions y): | setc. (the tail pieces if required will be paid | | |
| | 18.31.1 | 100 mm dia | ameter | | |
| | | 18.31.1.1 | Class I | each | 3317.55 |
| | | 18.31.1.2 | Class II | each | 3689.75 |
| | 18.31.2 | 125 mm dia | ameter | | |
| | | 18.31.2.1 | Class I | each | 3596.80 |
| | | 18.31.2.2 | Class II | each | 4329.10 |
| | 18.31.3 | 150 mm dia | | | |
| | | 18.31.3.1 | Class I | each | 4881.25 |
| | | 18.31.3.2 | Class II | each | 5387.20 |
| | 18.31.4 | 200 mm dia | ameter | | |
| | | 18.31.4.1 | Class I | each | 9604.50 |
| | | 18.31.4.2 | Class II | each | 11316.05 |
| | 18.31.5 | 250 mm dia | ameter | | |
| | | 18.31.5.1 | Class I | each | 14022.95 |
| | | 18.31.5.2 | Class II | each | 18258.85 |
| | 18.31.6 | 300 mm dia | ameter | | |
| | | 18.31.6.1 | Class I | each | 19468.75 |
| | | 18.31.6.2 | Class II | each | 22784.75 |
| 18.32 | in cement C. I. surfa in cement graded s excavatio 10 grade plastering | mortar 1:4 (ce box 100x t concrete slatone aggreg on, foundation d stone aggregt with cement shed with a flat | Chamber 30x30x50 cm inside, in brick work 1 cement: 4 coarse sand) for stop cock, with 100 x75 mm (inside) with hinged cover fixed ab 1:2:4 mix (1 cement: 2 coarse sand: 4 ate 20 mm nominal size), i/c necessary 1 concrete 1:5:10 (1 cement: 5 fine sand: 1 gregate 40mm nominal size) and inside 1 mortar 1:3 (1 cement: 3 coarse sand) 12mm oating coat of neat cement complete as per | | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| | 18.32.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 | each | 1195.35 |
| 18.33 | Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design : | | |
| | 18.33.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 | each | 6849.60 |
| 18.34 | Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design : | | |
| | 18.34.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 | each | 11842.75 |
| 18.35 | Constructing masonry Chamber 120x120x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design : | | |
| | 18.35.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 | each | 16334.65 |
| 18.36 | Constructing masonry Chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|-------|-----------|
| | with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design : | | | |
| | 18.36.1 | With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 | each | 6529.70 |
| 18.37 | in cement complete with locking coarse sat necessary fine sand: plastering mm thick, | ting masonry Chamber 60x45x50 cm inside, in brick work t mortar 1:4 (1 cement : 4 coarse sand) for water meter with C.I. double flap surface box 400x200x200 mm (inside) ng arrangement and RCC top slab 1:2:4 mix (1 cement : 2 and : 4 graded stone aggregate 20 mm nominal size), i/c y excavation, foundation concrete 1:5:10 (1 cement : 5 10 graded stone aggregate 40 mm nominal size) and inside g with cement mortar 1:3 (1 cement : 3 coarse sand) 12 finished with a floating coat of neat cement complete as ard design : | | |
| | 18.37.1 | With common burnt clay F.P.S.(non modular) bricks of class designation 7.5 | each | 6088.60 |
| 18.38 | with two | G.I. pipes and fittings with synthetic enamel white paint coats over a ready mixed priming coat, both of approved new work: | | |
| | 18.38.1 | 15 mm diameter pipe | metre | 9.95 |
| | 18.38.2 | 20 mm diameter pipe | metre | 11.80 |
| | 18.38.3 | 25 mm diameter pipe | metre | 15.50 |
| | 18.38.4 | 32 mm diameter pipe | metre | 18.40 |
| | 18.38.5 | 40 mm diameter pipe | metre | 21.75 |
| | 18.38.6 | 50 mm diameter pipe | metre | 25.75 |
| 18.39 | | g G.I. pipes and fittings with synthetic enamel white paint coat of approved quality: | | |
| | 18.39.1 | 15 mm diameter pipe | metre | 5.05 |
| | 18.39.2 | 20 mm diameter pipe | metre | 5.95 |
| | 18.39.3 | 25 mm diameter pipe | metre | 7.60 |
| | 18.39.4 | 32 mm diameter pipe | metre | 9.05 |
| | 18.39.5 | 40 mm diameter pipe | metre | 10.50 |
| | 18.39.6 | 50 mm diameter pipe | metre | 12.45 |
| 18.40 | • | G.I. pipes and fittings with two coats of anti-corrosive c paint of approved quality: | | |
| | 18.40.1 | 15 mm diameter pipe | metre | 6.00 |
| | 18.40.2 | 20 mm diameter pipe | metre | 7.10 |
| | 18.40.3 | 25 mm diameter pipe | metre | 9.10 |
| | 18.40.4 | 32 mm diameter pipe | metre | 10.85 |
| | 18.40.5 | 40 mm diameter pipe | metre | 12.35 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--------------|--|-------|-----------|
| | 18.40.6 | 50 mm diameter pipe | metre | 14.80 |
| | 18.40.7 | 65 mm diameter pipe | metre | 18.25 |
| | 18.40.8 | 80 mm diameter pipe | metre | 21.20 |
| 18.41 | _ | and filling sand of grading zone V or coarser grade, allround pes in external work : | | |
| | 18.41.1 | 15 mm diameter pipe | metre | 66.80 |
| | 18.41.2 | 20 mm diameter pipe | metre | 67.70 |
| | 18.41.3 | 25 mm diameter pipe | metre | 69.50 |
| | 18.41.4 | 32 mm diameter pipe | metre | 71.30 |
| | 18.41.5 | 40 mm diameter pipe | metre | 72.25 |
| | 18.41.6 | 50 mm diameter pipe | metre | 74.95 |
| | 18.41.7 | 65 mm diameter pipe | metre | 118.30 |
| | 18.41.8 | 80 mm diameter pipe | metre | 121.90 |
| | 18.41.9 | 100 mm diameter pipe | metre | 129.10 |
| | 18.41.10 | 150 mm diameter pipe | metre | 192.30 |
| 18.42 | in all soils | h 100 mm diameter casing pipe for hand pump / tubewell, except ordinary hard rocks requiring blasting, including the casing pipe after the hand pump / tube well is lowered d: | | |
| | 18.42.1 | Up to 6 metres depth | metre | 350.60 |
| | 18.42.2 | Beyond 6 m and up to 12 m depth | metre | 416.10 |
| | 18.42.3 | Beyond 12 m and up to 18 m depth | metre | 484.10 |
| 18.43 | _ | and placing in position filters of 40 mm diameter G.I. pipe strainer of approved quality. | metre | 604.85 |
| 18.44 | _ | and fixing to filter and lowering to proper levels 40 mm G.I. be well including cleaning and priming the tube well. | metre | 273.10 |
| 18.45 | - | and placing in position hand pump of approved quality for ameter G.I. pipe complete with all accessories. | each | 913.55 |
| 18.46 | • | and fixing G.I. Union in G.I. pipe including cutting and the pipe and making long screws etc. complete (New | | |
| | 18.46.1 | 15 mm nominal bore | each | 147.75 |
| | 18.46.2 | 20 mm nominal bore | each | 170.95 |
| | 18.46.3 | 25 mm nominal bore | each | 205.80 |
| | 18.46.4 | 32 mm nominal bore | each | 240.65 |
| | 18.46.5 | 40 mm nominal bore | each | 298.75 |
| | 18.46.6 | 50 mm nominal bore | each | 384.90 |
| | 18.46.7 | 65 mm nominal bore | each | 617.20 |
| | 10.40.7 | | 00.0 | 0=0 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---------------------|--|-----------|-----------|
| 18.47 | threading | and fixing G.I. Union in existing G.I. pipe line, cutting and the pipe and making long screws, including excavation, e earth or cutting of wall and making good the same complete required: | | |
| | 18.47.1 | 15 mm nominal bore | each | 366.20 |
| | 18.47.2 | 20 mm nominal bore | each | 389.45 |
| | 18.47.3 | 25 mm nominal bore | each | 424.30 |
| | 18.47.4 | 32 mm nominal bore | each | 459.15 |
| | 18.47.5 | 40 mm nominal bore | each | 517.20 |
| | 18.47.6 | 50 mm nominal bore | each | 682.85 |
| | 18.47.7 | 65 mm nominal bore | each | 915.15 |
| | 18.47.8 | 80 mm nominal bore | each | 996.45 |
| 18.48 | storage ta | and placing on terrace (at all floor levels) polyethylene water ank, IS: 12701 marked, with cover and suitable locking ent and making necessary holes for inlet, outlet and overflow without fittings and the base support for tank. | | |
| 18.48A | Circular tank | | per litre | 7.25 |
| 18.48B | Rectangu | lar tank | per litre | 7.25 |
| | C.P. BRA | SS FITTINGS | | |
| 18.49 | Providing to IS:893 | and fixing C.P. brass bib cock of approved quality conforming 1: | | |
| | 18.49.1 | 15 mm nominal bore | each | 371.70 |
| 18.50 | • | and fixing C.P. brass long nose bib cock of approved quality ng to IS standards and weighing not less than 810 gms. | | |
| | 18.50.1 | 15 mm nominal bore | each | 555.30 |
| 18.51 | _ | and fixing C.P. brass long body bib cock of approved nforming to IS standards and weighing not less than 690 | | |
| | 18.51.1 | 15 mm nominal bore | each | 492.55 |
| 18.52 | • | and fixing C.P. brass stop cock (concealed) of standard d of approved make conforming to IS:8931. | | |
| | 18.52.1 | 15 mm nominal bore | each | 545.95 |
| 18.53 | _ | and fixing C.P. brass angle valve for basin mixer and geyser approved quality conforming to IS:8931 | | |
| | 18.53.1 | 15mm nominal bore | each | 475.70 |
| 18.53A | • | and fixing C.P. Brass extension nipple (size 15mmx50mm) ed make and quality as per direction of Engineer-in-charge. | each | 58.10 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--|------------------------------|---|------|-----------|
| | PTMT FI | TINGS | | | |
| 18.54 | Providing | and fixing PTM | 1T bib cock of approved quality and colour. | | |
| | 18.54.1 | 15mm nomin 88 gms | nal bore, 86 mm long, weighing not less than | each | 103.30 |
| | 18.54.2 | 15 mm nomi than 99 gms | nal bore, 122mm long, weighing not less | each | 143.95 |
| | 18.54.3 | 15 mm nomi than 110 gm | nal bore, 165 mm long, weighing not less s | each | 157.90 |
| | 18.54.4 | 15 mm nomi than 93 gms | nal bore, 90 mm long, weighing not less | each | 113.75 |
| 18.55 | Providing | and fixing PTM | T stop cock of approved quality and colour. | | |
| | 18.55.1 | 15 mm nomi than 88 gms | nal bore, 86 mm long, weighing not less | each | 103.30 |
| | 18.55.2 | 20 mm nomi than 88 gms | nal bore, 89 mm long, weighing not less | each | 134.65 |
| | 18.55.3 | | stop cock, 15 mm nominal bore, 108 mm ng not less than 108 gms | each | 161.40 |
| 18.56 | Providing and fixing PTMT pillar cock of approved quality and colour | | | | |
| | 18.56.1 | 15 mm nomi than 110 gm | nal bore, 107 mm long, weighing not less s | each | 168.90 |
| | 18.56.2 | 15 mm nomin not less than | nal bore, 125 mm long foam flow, weighing n 120 gms | each | 186.30 |
| 18.57 | Providing | and fixing PTM | T, push cock of approved quality and colour. | | |
| | 18.57.1 | 15 mm nomi than 75 gms | nal bore, 98 mm long, weighing not less | each | 91.70 |
| | 18.57.2 | 15 mm nomi than 46 gms | nal bore, 80 mm long, weighing not less | each | 85.90 |
| 18.58 | Providing | and fixing PTM | IT grating of approved quality and colour. | | |
| | 18.58.1 | Circular type | , | | |
| | | 18.58.1.1 | 100 mm nominal dia | each | 32.75 |
| | | 18.58.1.2 | 125 mm nominal dia with 25 mm waste hole | each | 45.55 |
| | 18.58.2 | Rectangular | type with openable circular lid | | |
| | | | 150 mm nominal size square 100 mm diameter of the inner hinged round grating | each | 150.05 |
| | AIR VAL | 'E & WATER M | ETER (BULK TYPE) | | |
| 18.59 | with bolts | , nuts, rubber | double acting air valve of approved quality insertions etc. complete (The tail pieces, be paid separately): | | |
| | 18.59.1 | 50 mm dia | | each | 4662.45 |
| | 18.59.2 | 80 mm dia | | each | 5649.75 |
| | 18.59.3 | 100 mm dia | | each | 7410.80 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|-----------|--|---------|-----------|
| 18.60 | to IS: 23 | and fixing enclosed type water meter (bulk type) conforming 373 and tested by Municipal Board complete with bolts, per insertions etc. (The tail pieces if required will be paid y): | | |
| | 18.60.1 | 80 mm dia nominal bore | each | 3104.90 |
| | 18.60.2 | 100 mm dia nominal bore | each | 4638.60 |
| | 18.60.3 | 150 mm dia nominal bore | each | 6816.05 |
| | 18.60.4 | 200 mm dia nominal bore | each | 7433.95 |
| 18.61 | _ | and fixing C.I. dirt box strainer for bulk type water meter, bolts, rubber insertions etc. complete conforming to IS: | | |
| | 18.61.1 | 80 mm dia | each | 3633.50 |
| | 18.61.2 | 100 mm dia | each | 5864.10 |
| | 18.61.3 | 150 mm dia | each | 7443.40 |
| | 18.61.4 | 200 mm dia | each | 10430.75 |
| 18.62 | _ | and fixing PTMT Ball cock of approved quality, colour and nplete with Epoxy coated aluminium rod with L.P./ H.P.H.D. | | |
| | 18.62.1 | 15 mm nominal bore, 105 mm long, weighing not less than 138 gms | each | 165.30 |
| | 18.62.2 | 20 mm nominal bore, 120 mm long, weighing not less than 198 gms | each | 216.70 |
| | 18.62.3 | 25 mm nominal bore, 152mm long, weighing not less than 440 gms | each | 413.25 |
| | 18.62.4 | 40 mm nominal bore, 206mm long, weighing not less than 690 gms | each | 646.70 |
| | 18.62.5 | 50 mm nominal bore, 242mm long, weighing not less than 1240 gms | each | 1125.25 |
| 18.63 | | and fixing PTMT angle stop cock 15 mm nominal bore, not less than 85 gms | each | 134.65 |
| 18.64 | _ | and fixing PTMT swivelling shower, 15 mm nominal bore, not less than 40 gms | each | 100.70 |
| 18.65 | breadth 1 | and fixing PTMT soap Dish Holder having length of 138mm, 02mm, height of 75mm with concealed fitting arrangements, not less than 106 gms. | each | 112.30 |
| 18.66 | _ | g and laying S&S C.I. Standard specials such as tees, ollars tapers and caps etc, suitable for flanged jointing as 538: | | |
| | 18.66.1 | Up to 300 mm dia | quintal | 6625.10 |
| | 18.66.2 | Above 300 mm dia | quintal | 7856.25 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|----------|---|---------|-----------|
| 18.67 | _ | and laying S&S C.I. Standard specials suitable for all jointing as per IS: 13382: | | |
| | 18.67.1 | Up to 300 mm dia | quintal | 10748.40 |
| | 18.67.2 | Above 300 mm dia | quintal | 11329.15 |
| 18.68 | ū | and laying D.I. specials of class K-12 suitable for push-on sper IS: 9523: | | |
| | 18.68.1 | Up to 600 mm dia | quintal | 15394.40 |
| | 18.68.2 | Above 600 mm dia | quintal | 21201.90 |
| 18.69 | _ | and laying D.I. Specials of Class K - 12 suitable for all jointing as per IS: 9523: | | |
| | 18.69.1 | Up to 600 mm dia | quintal | 16207.45 |
| | 18.69.2 | Above 600 mm dia | quintal | 23118.40 |
| 18.70 | _ | push-on-joints to Centrifugally (Spun) Cast Iron Pipes or on Pipes including testing of joints and the cost of rubber | | |
| | 18.70.1 | 100 mm dia pipes | joint | 65.10 |
| | 18.70.2 | 150 mm dia pipes | joint | 102.35 |
| | 18.70.3 | 200 mm dia pipes | joint | 154.30 |
| | 18.70.4 | 250 mm dia pipes | joint | 187.65 |
| | 18.70.5 | 300 mm dia pipes | joint | 250.00 |
| | 18.70.6 | 350 mm dia pipes | joint | 269.75 |
| | 18.70.7 | 400 mm dia pipes | joint | 434.00 |
| | 18.70.8 | 450 mm dia pipes | joint | 499.90 |
| | 18.70.9 | 500 mm dia pipes | joint | 538.65 |
| | 18.70.10 | 600 mm dia pipes | joint | 693.70 |
| | 18.70.11 | 650 mm dia pipes | joint | 966.75 |
| | 18.70.12 | 700 mm dia pipes | joint | 1100.30 |
| | 18.70.13 | 800 mm dia pipes | joint | 1212.70 |
| | 18.70.14 | 900 mm dia pipes | joint | 1549.65 |
| | 18.70.15 | 1000 mm dia pipes | joint | 1820.80 |
| 18.71 | • | and laying Double Flanged (screwed / welded) Centrifugally ast Iron, Class B (IS: 1536): | | |
| | 18.71.1 | 100 mm dia C.I. Double Flanged Pipe | metre | 1640.95 |
| | 18.71.2 | 150 mm dia C.I. Double Flanged Pipe | metre | 2569.15 |
| | 18.71.3 | 200 mm dia C.I. Double Flanged Pipe | metre | 4053.40 |
| | 18.71.4 | 250 mm dia C.I. Double Flanged Pipe | metre | 4902.80 |
| | 18.71.5 | 300 mm dia C.I. Double Flanged Pipe | metre | 6266.90 |
| | 18.71.6 | 350 mm dia C.I. Double Flanged Pipe | metre | 7890.95 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|----------|--|-------|-----------|
| | 18.71.7 | 400 mm dia C.I. Double Flanged Pipe | metre | 10209.65 |
| | 18.71.8 | 450 mm dia C.I. Double Flanged Pipe | metre | 12997.65 |
| | 18.71.9 | 500 mm dia C.I. Double Flanged Pipe | metre | 16138.00 |
| | 18.71.10 | 600 mm dia C.I. Double Flanged Pipe | metre | 22362.05 |
| 18.72 | _ | and laying S&S Centrifugally Cast (Spun) / Ductile Iron forming to IS: 8329: | | |
| | 18.72.1 | 100 mm dia Ductile Iron Class K-7 pipes | metre | 926.30 |
| | 18.72.2 | 150 mm dia Ductile Iron Class K-7 pipes | metre | 1340.10 |
| | 18.72.3 | 200 mm dia Ductile Iron Class K-7 pipes | metre | 1853.45 |
| | 18.72.4 | 250 mm dia Ductile Iron Class K-7 pipes | metre | 2509.35 |
| | 18.72.5 | 300 mm dia Ductile Iron Class K-7 pipes | metre | 3305.00 |
| | 18.72.6 | 350 mm dia Ductile Iron Class K-7 pipes | metre | 4014.10 |
| | 18.72.7 | 400 mm dia Ductile Iron Class K-7 pipes | metre | 4807.00 |
| | 18.72.8 | 450 mm dia Ductile Iron Class K-7 pipes | metre | 5804.50 |
| | 18.72.9 | 500 mm dia Ductile Iron Class K-7 pipes | metre | 6853.35 |
| | 18.72.10 | 600 mm dia Ductile Iron Class K-7 pipes | metre | 8853.10 |
| | 18.72.11 | 700 mm dia Ductile Iron Class K-7 pipes | metre | 11498.05 |
| | 18.72.12 | 800 mm dia Ductile Iron Class K-7 pipes | metre | 14470.10 |
| | 18.72.13 | 900 mm dia Ductile Iron Class K-7 pipes | metre | 18620.70 |
| | 18.72.14 | 1000 mm dia Ductile Iron Class K-7 pipes | metre | 20402.55 |
| | 18.72.15 | 100 mm dia Ductile Iron Class K-9 pipes | metre | 958.95 |
| | 18.72.16 | 150 mm dia Ductile Iron Class K-9 pipes | metre | 1438.35 |
| | 18.72.17 | 200 mm dia Ductile Iron Class K-9 pipes | metre | 1978.85 |
| | 18.72.18 | 250 mm dia Ductile Iron Class K-9 pipes | metre | 2754.95 |
| | 18.72.19 | 300 mm dia Ductile Iron Class K-9 pipes | metre | 3426.85 |
| | 18.72.20 | 350 mm dia Ductile Iron Class K-9 pipes | metre | 4216.25 |
| | 18.72.21 | 400 mm dia Ductile Iron Class K-9 pipes | metre | 5395.55 |
| | 18.72.22 | 450 mm dia Ductile Iron Class K-9 pipes | metre | 6238.65 |
| | 18.72.23 | 500 mm dia Ductile Iron Class K-9 pipes | metre | 7869.80 |
| | 18.72.24 | 600 mm dia Ductile Iron Class K-9 pipes | metre | 9512.35 |
| | 18.72.25 | 700 mm dia Ductile Iron Class K-9 pipes | metre | 13138.15 |
| | 18.72.26 | 750 mm dia Ductile Iron Class K-9 pipes | metre | 14258.40 |
| | 18.72.27 | 800 mm dia Ductile Iron Class K-9 pipes | metre | 14433.95 |
| | 18.72.28 | 900 mm dia Ductile Iron Class K-9 pipes | metre | 17420.50 |
| | 18.72.29 | 1000 mm dia Ductile Iron Class K-9 pipes | metre | 19601.20 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---------------------------------------|--|-------|-----------|
| 18.73 | _ | and laying Double Flanged (Screwed/ Welded) Centrifugally actile Iron Pipes of Class K - 9 conforming to IS: 8329: | | |
| | 18.73.1 | 100 mm dia Ductile Iron Double Flanged | metre | 1377.45 |
| | 18.73.2 | 150 mm dia Ductile Iron Double Flanged | metre | 2067.10 |
| | 18.73.3 | 200 mm dia Ductile Iron Double Flanged | metre | 2605.60 |
| | 18.73.4 | 250 mm dia Ductile Iron Double Flanged | metre | 3699.25 |
| | 18.73.5 | 300 mm dia Ductile Iron Double Flanged | metre | 4752.05 |
| | 18.73.6 | 350 mm dia Ductile Iron Double Flanged | metre | 5986.80 |
| | 18.73.7 | 400 mm dia Ductile Iron Double Flanged | metre | 7689.95 |
| | 18.73.8 | 450 mm dia Ductile Iron Double Flanged | metre | 8094.85 |
| | 18.73.9 | 500 mm dia Ductile Iron Double Flanged | metre | 11451.10 |
| | 18.73.10 | 600 mm dia Ductile Iron Double Flanged | metre | 15166.40 |
| | 18.73.11 | 700 mm dia Ductile Iron Double Flanged | metre | 17944.80 |
| 18.74 | • | and fixing unplasticised P.V.C. connection pipe with PTMT ar and bush of approved quality and colour. | | |
| | 18.74.1 | 15 mm nominal bore with 30cm length | each | 61.70 |
| | 18.74.2 | 15 mm nominal bore with 45 cm length | each | 66.65 |
| 18.75 | _ | and fixing PTMT extension nipple for water tank pipe, fittings ed quality and colour. | | |
| | 18.75.1 | 15 mm nominal bore, weighing not less than 32 gms | each | 28.85 |
| | 18.75.2 | 20 mm nominal bore, weighing not less than 40 gms | each | 39.30 |
| | 18.75.3 | 25mm nominal bore, weighing not less than 62 gms | each | 53.25 |
| 18.76 | Cutting ho same: | oles up to 30x30 cm in walls including making good the | | |
| | 18.76.1 | With common burnt clay F.P.S. (non modular) bricks | each | 219.20 |
| 18.77 | drain pipe with ceme stone agg | eles up to 15x15 cm in R.C.C. floors and roofs for passing etc. and repairing the hole after insertion of drain pipe etc. ent concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded regate 20 mm nominal size), including finishing complete | | |
| | so as to m | nake it leak proof. | each | 209.25 |
| 18.78 | | nases up to 7.5x7.5 cm in walls including making good and with matching surface after housing G.I. pipe etc. | metre | 93.85 |
| 18.79 | diameter in : 3 coarse | ole up to 20x20 cm and embedding pipes up to 150 mm n masonry and filling with cement concrete 1:3:6 (1 cement e sand 6 graded stone aggregate 20 mm nominal size) disposal of malba. | metre | 134.55 |
| 18.80 | bleaching same with getting the | ng C.I. water mains by flushing with water containing powder @ 0.5 gms per litre of water and cleaning the fresh water, operation to be repeated three times including e sample of water from the disinfected main tested in the laboratory. | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|-------------------------|--|-----------|-----------|
| | 18.80.1 | 80 mm diameter C.I. pipe | 100 metre | 782.70 |
| | 18.80.2 | 100 mm diameter C.I. pipe | 100 metre | 1029.70 |
| | 18.80.3 | 125 mm diameter C.I. pipe | 100 metre | 1288.00 |
| | 18.80.4 | 150 mm diameter C.I. pipe | 100 metre | 1547.80 |
| | 18.80.5 | 200 mm diameter C.I. pipe | 100 metre | 2070.15 |
| | 18.80.6 | 250 mm diameter C.I. pipe | 100 metre | 2611.60 |
| | 18.80.7 | 300 mm diameter C.I. pipe | 100 metre | 2916.55 |
| | 18.80.8 | 350 mm diameter C.I. pipe | 100 metre | 3233.20 |
| | 18.80.9 | 400 mm diameter C.I. pipe | 100 metre | 3568.55 |
| | 18.80.10 | 450 mm diameter C.I. pipe | 100 metre | 3910.65 |
| | 18.80.11 | 500 mm diameter C.I. pipe | 100 metre | 4272.65 |
| | 18.80.12 | 600 mm diameter C.I. pipe | 100 metre | 5013.35 |
| 18.81 | water con cleaning t | every operation of disinfecting the C.I. main by flushing with taining bleaching powder @ 0.5 gms per litre of water and the same with fresh water, including getting the samples of the municipal laboratory: | | |
| | 18.81.1 | 80 mm diameter C.I. pipe | 100 metre | 286.65 |
| | 18.81.2 | 100 mm diameter C.I. pipe | 100 metre | 351.15 |
| | 18.81.3 | 125 mm diameter C.I. pipe | 100 metre | 429.70 |
| | 18.81.4 | 150 mm diameter C.I. pipe | 100 metre | 501.70 |
| | 18.81.5 | 200 mm diameter C.I. pipe | 100 metre | 765.15 |
| | 18.81.6 | 250 mm diameter C.I. pipe | 100 metre | 882.05 |
| | 18.81.7 | 300 mm diameter C.I. pipe | 100 metre | 993.35 |
| | 18.81.8 | 350 mm diameter C.I. pipe | 100 metre | 1167.05 |
| | 18.81.9 | 400 mm diameter C.I. pipe | 100 metre | 1343.25 |
| | 18.81.10 | 450 mm diameter C.I. pipe | 100 metre | 1525.35 |
| | 18.81.11 | 500 mm diameter C.I. pipe | 100 metre | 1709.20 |
| | 18.81.12 | 600 mm diameter C.I. pipe | 100 metre | 2086.20 |
| 18.82 | after takir | ng old C.I. pipes including excavation and refilling trenches ng out the pipes, breaking lead caulked joints, melting of making into blocks, including stacking of pipes at site lead netre: | | |
| | 18.82.1 | 80 mm diameter C.I. pipe | metre | 175.85 |
| | 18.82.2 | 100 mm diameter C.I. pipe | metre | 183.15 |
| | 18.82.3 | 125 mm diameter C.I. pipe | metre | 190.05 |
| | 18.82.4 | 150 mm diameter C.I. pipe | metre | 197.20 |
| | 18.82.5 | 200 mm diameter C.I. pipe | metre | 219.85 |
| | 18.82.6 | 250 mm diameter C.I. pipe | metre | 242.00 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|----------|-----------|
| | 18.82.7 | 300 mm diameter C.I. pipe | metre | 261.55 |
| | 18.82.8 | 350 mm diameter C.I. pipe | metre | 279.95 |
| | 18.82.9 | 400 mm diameter C.I. pipe | metre | 296.95 |
| | 18.82.10 | 450 mm diameter C.I. pipe | metre | 314.40 |
| | 18.82.11 | 500 mm diameter C.I. pipe | metre | 329.75 |
| | 18.82.12 | 600 mm diameter C.I. pipe | metre | 356.65 |
| 18.83 | Labour fo | r cutting C.I. pipe with steel saw. | | |
| | 18.83.1 | 80 mm diameter C.I. pipe | Each cut | 63.25 |
| | 18.83.2 | 100 mm diameter C.I. pipe | Each cut | 84.95 |
| | 18.83.3 | 125 mm diameter C.I. pipe | Each cut | 118.15 |
| | 18.83.4 | 150 mm diameter C.I. pipe | Each cut | 159.65 |
| | 18.83.5 | 200 mm diameter C.I. pipe | Each cut | 213.00 |
| | 18.83.6 | 250 mm diameter C.I. pipe | Each cut | 264.45 |
| | 18.83.7 | 300 mm diameter C.I. pipe | Each cut | 317.80 |
| | 18.83.8 | 350 mm diameter C.I. pipe | Each cut | 369.25 |
| | 18.83.9 | 400 mm diameter C.I. pipe | Each cut | 422.30 |
| | 18.83.10 | 450 mm diameter C.I. pipe | Each cut | 474.05 |
| | 18.83.11 | 500 mm diameter C.I. pipe | Each cut | 527.10 |
| | 18.83.12 | 600 mm diameter C.I. pipe | Each cut | 628.25 |
| 18.84 | • | & fixing chrome plated brass battery based infrared sensor pillar cock, having foam flow technology. | | |
| | 18.84.1 | 15 mm nominal bore | each | 6752.90 |
| 18.85 | as per JIS shall be pa m spacing testing of | and fixing Stainless Steel pipe and fitting of grade AISI 304 S standard 3448 complete with press type fitting (fitting aid for separately) i/c fixing of the pipe with clamps at 1.00 g including cutting and making good the walls including joints complete as per direction of Engineer-in-charge. length inserted in the fitting shall not be measured for | | |
| | Inernal w | ork Exposed on wall | | |
| | 18.85.1 | 15.88 mm outer dia pipe | metre | 255.00 |
| | 18.85.2 | 22.22 mm outer dia Pipe | metre | 391.60 |
| | 18.85.3 | 28.58 mm outer dia Pipe | metre | 477.25 |
| | 18.85.4 | 34.00 mm outer dia Pipe | metre | 645.60 |
| | 18.85.5 | 42.70 mm outer dia Pipe | metre | 666.60 |
| | 18.85.6 | 48.60 mm outer dia Pipe | metre | 794.65 |
| | | | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|--|-------|-----------|
| 18.86 | as per JIS shall be p 1.00m sp good the v Engineer | and fixing Stainless Steel pipe and fitting of grade AISI 304 S standard 3448 complete with press type fitting (fitting paid for separately) i/c fixing of the pipe with clamps at acing and also including cutting of chases and making walls including testing of joints complete as per direction of -in-charge. (The pipe length inserted in the fitting shall not tred for payment) | | |
| | Internal v | work - Concealed Pipe | | |
| | 18.86.1 | 15.88 mm outer dia .Pipes. | metre | 348.30 |
| | 18.86.2 | 22.22 mm Outer dia pipes | metre | 484.90 |
| 18.87 | of grade A or M-prof | and fixing required Stainless Steel Fitting of press fit design alSI 304 conforming to JWWA G116 standard with V-profile lie and with O-ring sealing gasket of EPDM material of lia as per direction of Engineer-in-charge. | | |
| | Coupling | /Socket | | |
| | 18.87.1 | For 15.88 mm outer dia pipe | each | 48.80 |
| | 18.87.2 | For 22.22 mm outer dia pipe | each | 73.15 |
| | 18.87.3 | For 28.58 mm outer dia pipe | each | 103.35 |
| | 18.87.4 | For 34.00 mm outer dia pipe | each | 152.15 |
| | 18.87.5 | For 42.70 mm outer dia pipe | each | 183.50 |
| | 18.87.6 | For 48.60 mm outer dia pipe | each | 209.05 |
| 18.88 | of grade A or M-prof providing of grade A or M-prof | and fixing required Stainless Steel Fitting of press fit design alSI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of and fixing required Stainless Steel Fitting of press fit design alSI 304 conforming toJWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of lia as per direction of Engineer-in-charge. | | |
| | Reducer | | | |
| | 18.88.1 | For 22.22 mm x 15.88 mm outer dia pipe | each | 119.65 |
| | 18.88.2 | For 28.58 mm x 15.88 mm outer dia pipe | each | 163.75 |
| | 18.88.3 | For 28.58 mm x 22.22 mm outer dia pipe | each | 168.40 |
| | 18.88.4 | For 34.00 mm x 15.88 mm outer dia pipe | each | 213.70 |
| | 18.88.5 | For 34.00 mm x 22.22 mm outer dia pipe | each | 217.20 |
| | 18.88.6 | For 34.00 mm x 28.58 mm outer dia pipe | each | 220.70 |
| | 18.88.7 | For 42.70 mm x 15.88 mm outer dia pipe | each | 417.00 |
| | 18.88.8 | For 42.70 mm x 22.22 mm outer dia pipe | each | 420.45 |
| | 18.88.9 | For 42.70 mm x 28.58 mm outer dia pipe | each | 420.45 |
| | 18.88.10 | For 42.70 mm x 34.00 mm outer dia pipe | each | 449.50 |

| Code No. | | Description | Unit | Rate ₹ | |
|-------------|-------------------------|---|------|-----------|--|
| | 18.88.11 | For 48.60 mm x 15.88 mm outer dia pipe | each | 476.20 | |
| | 18.88.12 | For 48.60 mm x 22.22 mm outer dia pipe | each | 476.20 | |
| | 18.88.13 | For 48.60 mm x 28.58 mm outer dia pipe | each | 476.20 | |
| | 18.88.14 | For 48.60 mm x 34.00 mm outer dia pipe | each | 476.20 | |
| | 18.88.15 | For 48.60 mm x 42.70 mm outer dia pipe | each | 476.20 | |
| 18.89 | of grade A or M-prof | and fixing required Stainless Steel Fitting of press fit design AISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of dia as per direction of Engineer-in-charge. | | | |
| | Slip Cou | pling/ Socket | | | |
| | 18.89.1 | For 15.88 mm outer dia pipe | each | 54.60 | |
| | 18.89.2 | For 22.22 mm outer dia pipe | each | 73.15 | |
| | 18.89.3 | For 28.58 mm outer dia pipe | each | 103.35 | |
| | 18.89.4 | For 34.00 mm outer dia pipe | each | 152.15 | |
| | 18.89.5 | For 42.70 mm outer dia pipe | each | 183.50 | |
| | 18.89.6 | For 48.60 mm outer dia pipe | each | 197.45 | |
| 18.90 | of grade A or M-prof | and fixing required Stainless Steel Fitting of press fit design AISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of dia as per direction of Engineer-in-charge. | | | |
| | Elbow 90 | 0 | | | |
| | 18.90.1 | For 15.88mm outer dia pipe | each | 67.35 | |
| | 18.90.2 | For 22.22 mm outer dia pipe | each | 73.15 | |
| | 18.90.3 | For 28.58 mm outer dia pipe | each | 111.50 | |
| | 18.90.4 | For 34.00 mm outer dia pipe | each | 126.60 | |
| | 18.90.5 | For 42.70 mm outer dia pipe | each | 134.75 | |
| | 18.90.6 | For 48.60 mm outer dia pipe | each | 174.25 | |
| 18.91 | of grade A or M-prof | and fixing required Stainless Steel Fitting of press fit design AISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of dia as per direction of Engineer-in-charge. | | | |
| | Reducing Elbow 90° | | | | |
| | 18.91.1 | For22.22 mm x 15.88 mm outer dia pipe | each | 171.90 | |
| | 18.91.2 | For 28.58 mm x 15.88 mm outer dia pipe | each | 221.85 | |
| | 18.91.3 | For 28.58 mm x 22.22 mm outer dia pipe | each | 256.70 | |
| | 18.91.4 | For 34.00 mm x 22.22 mm outer dia pipe | each | 333.35 | |
| | 18.91.5 | For 34.00 mm x 28.58 mm outer dia pipe | each | 459.95 | |
| | 18.91.6 | For 42.70 mm x 34.00 mm outer dia pipe | each | 207.90 | |

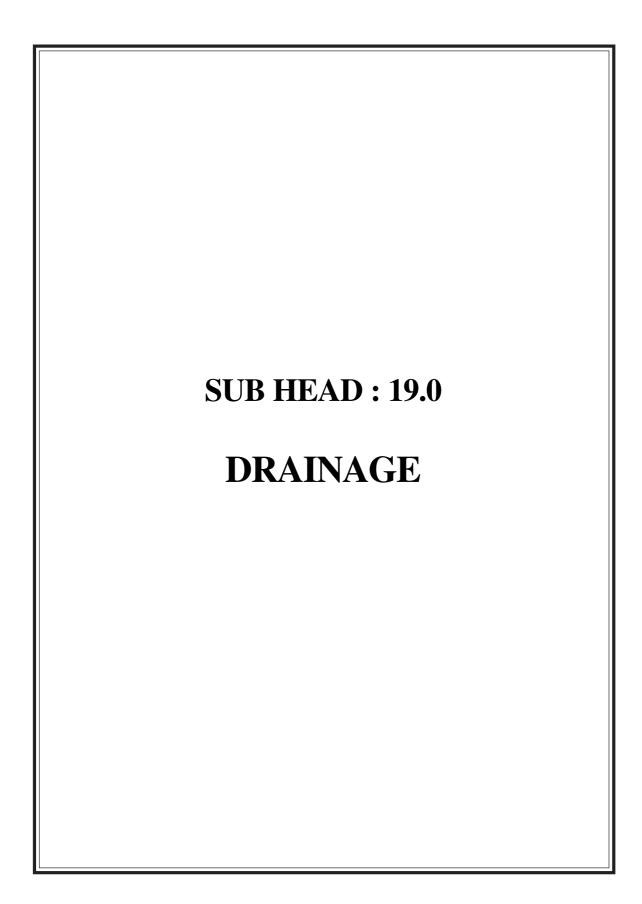
| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|------|-----------|
| 18.92 | Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge. | | | |
| | Equal Te | e | | |
| | 18.92.1 | For 15.88 mm outer dia pipe | each | 184.70 |
| | 18.92.2 | For 22.22 mm outer dia pipe | each | 268.30 |
| | 18.92.3 | For 28.58 mm outer dia pipe | each | 317.10 |
| | 18.92.4 | For 34.00 mm outer dia pipe | each | 507.60 |
| | 18.92.5 | For 42.70 mm outer dia pipe | each | 793.30 |
| | 18.92.6 | For 48.60 mm outer dia pipe | each | 1030.25 |
| 18.93 | of grade A or M-prof | and fixing required Stainless Steel Fitting of press fit design AISI 304 conforming to JWWA G116 standard with V-profile file and with O-ring sealing gasket of EPDM material of dia as per direction of Engineer-in-charge. | | |
| | Reducing | g Tee | | |
| | 18.93.1 | For 22.22 mm x 15.88 mm outer dia pipe | each | 207.90 |
| | 18.93.2 | For 28.58 mm x 15.88 mm outer dia pipe | each | 317.10 |
| | 18.93.3 | For 28.58 mm x 22.22 mm outer dia pipe | each | 317.10 |
| | 18.93.4 | For 34.00 mm x 15.88 mm outer dia pipe | each | 507.60 |
| | 18.93.5 | For 34.00 mm x 22.22 mm outer dia pipe | each | 507.60 |
| | 18.93.6 | For 34.00 mm x 28.58 mm outer dia pipe | each | 507.60 |
| | 18.93.7 | For 42.70 mm x 15.88 mm outer dia pipe | each | 793.30 |
| | 18.93.8 | For 42.70 mm x 22.22 mm outer dia pipe | each | 793.30 |
| | 18.93.9 | For 42.70 mm x 28.58 mm outer dia pipe | each | 793.30 |
| | 18.93.10 | For 42.70 mm x 34.00 mm outer dia pipe | each | 793.30 |
| | 18.93.11 | For 48.60 mm x 15.88 mm outer dia pipe | each | 1030.25 |
| | 18.93.12 | For 48.60 mm x 22.22 mm outer dia pipe | each | 1030.25 |
| | 18.93.13 | For 48.60 mm x 28.58 mm outer dia pipe | each | 1030.25 |
| | 18.93.14 | For 48.60 mm x 34.00 mm outer dia pipe | each | 1030.25 |
| | 18.93.15 | For 48.60 mm x 42.70 mm outer dia pipe | each | 1030.25 |
| 18.94 | of grade A or M-prof | and fixing required Stainless Steel Fitting of press fit design AISI 304 conforming to JWWA G116 standard with V-profile file and with O-ring sealing gasket of EPDM material of dia as per direction of Engineer-in-charge. | | |
| | Male Thr | read Tee | | |
| | 18.94.1 | For 15.88 mm outer dia x 15 mm nominal dia threaded | each | 207.90 |
| | 18.94.2 | For 22.22 mm outer dia x 15 mm nominal dia threaded | each | 232.30 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--------------------------|--|------|-----------|
| | 18.94.3 | For 22.22 mm outer dia x 20 mm nominal dia threaded | each | 238.10 |
| | 18.94.4 | For 28.58 mm outer dia x 15 mm nominal dia threaded | each | 317.10 |
| | 18.94.5 | For 28.58 mm outer dia x 20 mm nominal dia threaded | each | 317.10 |
| | 18.94.6 | For 28.58 mm outer dia x 25 mm nominal dia threaded | each | 317.10 |
| | 18.94.7 | For 34.00 mm outer dia x 15 mm nominal dia threaded | each | 507.60 |
| | 18.94.8 | For 34.00 mm outer dia x 20 mm nominal dia threaded | each | 507.60 |
| | 18.94.9 | For 34.00 mm outer dia x 25 mm nominal dia threaded | each | 507.60 |
| | 18.94.10 | For 34.00 mm outer dia x 32 mm nominal dia threaded | each | 507.60 |
| | 18.94.11 | For 42.70 mm outer dia x 15 mm nominal dia threaded | each | 793.30 |
| | 18.94.12 | For 42.70 mm outer dia x 20 mm nominal dia threaded | each | 793.30 |
| | 18.94.13 | For 42.70 mm outer dia x 25 mm nominal dia threaded | each | 793.30 |
| | 18.94.14 | For 42.70 mm outer dia x 32 mm nominal dia threaded | each | 793.30 |
| | 18.94.15 | For 42.70 mm outer dia x 40 mm nominal dia threaded | each | 793.30 |
| | 18.94.16 | For 48.60 mm outer dia x 15 mm nominal dia threaded | each | 1030.25 |
| | 18.94.17 | For 48.60 mm outer dia x 20 mm nominal dia threaded | each | 1030.25 |
| | 18.94.18 | For 48.60 mm outer dia x 25 mm nominal dia threaded | each | 1030.25 |
| | 18.94.19 | For 48.60 mm outer dia x 32 mm nominal dia threaded | each | 1030.25 |
| | 18.94.20 | For 48.60 mm outer dia x 40 mm nominal dia threaded | each | 1030.25 |
| | 18.94.21 | For 48.60 mm outer dia x 50 mm nominal dia threaded | each | 1030.25 |
| 18.95 | of grade A or M-profi | and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of lia as per direction of Engineer-in-charge. | | |
| | Female 1 | Thread Tee | | |
| | 18.95.1 | For 15.88 mm outer dia x15 mm nominal dia threaded | each | 207.90 |
| | 18.95.2 | For 22.22 mm outer dia x 15 mm nominal dia threaded | each | 232.30 |
| | 18.95.3 | For 22.22 mm outer dia x 20 mm nominal dia threaded | each | 232.30 |
| | 18.95.4 | For 28.58 mm outer dia x 15 mm nominal dia threaded | each | 317.10 |
| | 18.95.5 | For 28.58 mm outer dia x 20 mm nominal dia threaded | each | 317.10 |
| | 18.95.6 | For 28.58 mm outer dia x 25 mm nominal dia threaded | each | 317.10 |
| | 18.95.7 | For 34.00 mm outer dia x 15 mm nominal dia threaded | each | 507.60 |
| | 18.95.8 | For 34.00 mm outer dia x 20 mm nominal dia threaded | each | 507.60 |
| | 18.95.9 | For 34.00 mm outer dia x 25 mm nominal dia threaded | each | 507.60 |
| | 18.95.10 | For 34.00 mm outer dia x 32 mm nominal dia threaded | each | 507.60 |
| | 18.95.11 | For 42.70 mm outer dia x 15 mm nominal dia threaded | each | 793.30 |
| | 18.95.12 | For 42.70 mm outer dia x 20 mm nominal dia threaded | each | 793.30 |
| | 18.95.13 | For 42.70 mm outer dia x 25 mm nominal dia threaded | each | 793.30 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--------------------------|---|------|-----------|
| | 18.95.14 | For 42.70 mm outer dia x 32 mm nominal dia threaded | each | 793.30 |
| | 18.95.15 | For 42.70 mm outer dia x 40 mm nominal dia threaded | each | 793.30 |
| | 18.95.16 | For 48.60 mm outer dia x 15 mm nominal dia threaded | each | 1030.25 |
| | 18.95.17 | For 48.60 mm outer dia x 20 mm nominal dia threaded | each | 1030.25 |
| | 18.95.18 | For 48.60 mm outer dia x 25 mm nominal dia threaded | each | 1030.25 |
| | 18.95.19 | For 48.60 mm outer dia x 32 mm nominal dia threaded | each | 1030.25 |
| | 18.95.20 | For 48.60 mm outer dia x 40 mm nominal dia threaded | each | 1030.25 |
| | 18.95.21 | For 48.60 mm outer dia x 50 mm nominal dia threaded | each | 1030.25 |
| 18.96 | of grade A or M-profi | and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of lia as per direction of Engineer-in-charge. | | |
| | Female T | hread Connector/ Adapter | | |
| | 18.96.1 | For 15.88 mm outer dia x 15 mm nominal dia threaded | each | 220.70 |
| | 18.96.2 | For 22.22 mm outer dia x 15 mmnominal dia threaded | each | 267.15 |
| | 18.96.3 | For 22.22 mm outer dia x 20 mm nominal dia threaded | each | 275.30 |
| | 18.96.4 | For 28.58 mm outer dia x 15 mm nominal dia threaded | each | 321.75 |
| | 18.96.5 | For 28.58 mm outer dia x 20 mm nominal dia threaded | each | 332.20 |
| | 18.96.6 | For 28.58 mm outer dia x 25 mm nominal dia threaded | each | 391.45 |
| | 18.96.7 | For 34.00 mm outer dia x 25 mm nominal dia threaded | each | 475.05 |
| | 18.96.8 | For 34.00 mm outer dia x 32 mm nominal dia threaded | each | 624.90 |
| | 18.96.9 | For 42.70 mm outer dia x 32 mm nominal dia threaded | each | 669.00 |
| | 18.96.10 | For 42.70 mm outer dia x 40 mm nominal dia threaded | each | 791.00 |
| | 18.96.11 | For 48.60 mm outer dia x 40 mm nominal dia threaded | each | 973.35 |
| | 18.96.12 | For 48.60 mm outer dia x 50 mm nominal dia threaded | each | 1120.85 |
| 18.97 | of grade A or M-profi | and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile le and with O-ring sealing gasket of EPDM material of lia as per direction of Engineer-in-charge. | | |
| | Male Thre | ead Connector/ Adapter | | |
| | 18.97.1 | For 15.88 mm outer dia x 15 mm nominal dia threaded | each | 224.15 |
| | 18.97.2 | For 22.22 mm outer dia x 15 mm nominal dia threaded | each | 263.65 |
| | 18.97.3 | For 22.22 mm outer dia x 20 mm nominal dia threaded | each | 288.05 |
| | 18.97.4 | For 28.58 mm outer dia x 20 mm nominal dia threaded | each | 363.55 |
| | 18.97.5 | For 28.58 mm outer dia x 25 mm nominal dia threaded | each | 371.70 |
| | 18.97.6 | For 34.00 mm outer dia x 25 mm nominal dia threaded | each | 535.45 |
| | 18.97.7 | For 34.00 mm outer dia x 32 mm nominal dia threaded | each | 656.25 |
| | 18.97.8 | For 42.70 mm outer dia x 32 mm nominal dia threaded | each | 753.80 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|------|-----------|
| | 18.97.9 | For 42.70 mm outer dia x 40 mm nominal dia threaded | each | 843.25 |
| | 18.97.10 | For 48.60 mm outer dia x 40 mm nominal dia threaded | each | 975.65 |
| | 18.97.11 | For 48.60 mm outer dia x 50 mm nominal dia threaded | each | 1321.80 |
| 18.98 | of grade A or M-profi | and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of dia as per direction of Engineer-in-charge. | | |
| | Valve Co | nnector | | |
| | 18.98.1 | For 15.88 mm outer dia x 15 mm nominal dia threaded | each | 271.80 |
| | 18.98.2 | For 22.22 mm outer dia x 15 mm nominal dia threaded | each | 320.55 |
| | 18.98.3 | For 22.22 mm outer dia x 20 mm nominal dia threaded | each | 342.65 |
| | 18.98.4 | For 28.58 mm outer dia x 25 mm nominal dia threaded | each | 492.50 |
| | 18.98.5 | For 34.00 mm outer dia x 32 mm nominal dia threaded | each | 730.60 |
| | 18.98.6 | For 42.70 mm outer dia x 40 mm nominal dia threaded | each | 1016.30 |
| | 18.98.7 | For 48.60 mm outer dia x 50 mm nominal dia threaded | each | 1365.90 |
| 18.99 | Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge. | | | |
| | Female T | hreaded Elbow 90° | | |
| | 18.99.1 | For 15.88 mm outer dia x 15 mm nominal dia threaded | each | 174.25 |
| | 18.99.2 | For 22.22 mm outer dia x 15 mm nominal dia threaded | each | 221.85 |
| | 18.99.3 | For 22.22 mm outer dia x 20 mm nominal dia threaded | each | 221.85 |
| | 18.99.4 | For 25.58 mm outer dia x 25 mm nominal dia threaded | each | 238.10 |
| | 18.99.5 | For 34.00 mm outer dia x 32 mm nominal dia threaded | each | 333.35 |
| | 18.99.6 | For 42.70 mm outer dia x 32 mm nominal dia threaded | each | 555.20 |
| | 18.99.7 | For 42.70 mm outer dia x 40 mm nominal dia threaded | each | 555.20 |
| | 18.99.8 | For 48.60 mm outer dia x 40 mm nominal dia threaded | each | 793.30 |
| | 18.99.9 | For 48.60 mm outer dia x 50 mm nominal dia threaded | each | 793.30 |
| 18.100 | of grade A or M-profi | and fixing required Stainless Steel Fitting of press fit design ISI 304 conforming to JWWA G116 standard with V-profile ile and with O-ring sealing gasket of EPDM material of lia as per direction of Engineer-in-charge. | | |
| | Male Thre | eaded Elbow 90° | | |
| | 18.100.1 | For 15.88 mm outer dia x 15 mm nominal dia threaded | each | 221.85 |
| | 18.100.2 | For 22.22 mm outer dia x 15 mm nominal dia threaded | each | 238.10 |
| | 18.100.3 | For 22.22 mm outer dia x 20 mm nominal dia threaded | each | 238.10 |
| | 18.100.4 | For 28.58 mm outer dia x 25 mm nominal dia threaded | each | 238.10 |
| | 18.100.5 | For 34.00 mm outer dia x 25 mm nominal dia threaded | each | 333.35 |

| | Description | Unit | Rate ₹ |
|----------------------------|--|---|--|
| 18.100.6 | For 34.00 mm outer dia x 32 mm nominal dia threaded | each | 333.35 |
| 18.100.7 | For 42.70 mm outer dia x 32 mm nominal dia threaded | each | 555.20 |
| 18.100.8 | For 42.70 mm outer dia x 40 mm nominal dia threaded | each | 555.20 |
| 18.100.9 | For 48.60 mm outer dia x 40 mm nominal dia threaded | each | 793.30 |
| 18.100.10 | For 48.60 mm outer dia x 50 mm nominal dia threaded | each | 793.30 |
| of grade Al or M-profil | SI 304 conforming to JWWA G116 standard with V-profile e and with O-ring sealing gasket of EPDM material of | | |
| Сар | | | |
| 18.101.1 | For 15.88 mm outer dia pipe | each | 52.25 |
| 18.101.2 | For 22.22 mm outer dia pipe | each | 74.35 |
| 18.101.3 | For 28.58 mm outer dia pipe | each | 97.55 |
| 18.101.4 | For 34.00 mm outer dia pipe | each | 200.95 |
| 18.101.5 | For 42.70 mm outer dia pipe | each | 293.85 |
| 18.101.6 | For 48.60 mm outer dia pipe | each | 383.30 |
| of grade Al or M-profil | SI 304 conforming to JWWA G116 standard with V-profile e and with O-ring sealing gasket of EPDM material of | | |
| Pipe Bride | ge | | |
| 18.102.1 | For 15.88 mm outer dia pipe | each | 248.55 |
| 18.102.2 | For 22.22 mm outer dia pipe | each | 314.75 |
| 18.102.3 | For 28.58 mm outer dia pipe | each | 472.75 |
| | 18.100.7 18.100.8 18.100.9 18.100.10 Providing a of grade Al or M-profil required di Cap 18.101.1 18.101.2 18.101.3 18.101.4 18.101.5 18.101.6 Providing a of grade Al or M-profil required di Pipe Bridge 18.102.1 18.102.2 | 18.100.6 For 34.00 mm outer dia x 32 mm nominal dia threaded 18.100.7 For 42.70 mm outer dia x 32 mm nominal dia threaded 18.100.8 For 42.70 mm outer dia x 40 mm nominal dia threaded 18.100.9 For 48.60 mm outer dia x 40 mm nominal dia threaded 18.100.10 For 48.60 mm outer dia x 50 mm nominal dia threaded Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge. Cap 18.101.1 For 15.88 mm outer dia pipe 18.101.2 For 22.22 mm outer dia pipe 18.101.4 For 34.00 mm outer dia pipe 18.101.5 For 42.70 mm outer dia pipe 18.101.6 For 48.60 mm outer dia pipe Providing and fixing required Stainless Steel Fitting of press fit design of grade AISI 304 conforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge. Pipe Bridge 18.102.1 For 15.88 mm outer dia pipe For 22.22 mm outer dia pipe | 18.100.6 For 34.00 mm outer dia x 32 mm nominal dia threaded each 18.100.7 For 42.70 mm outer dia x 32 mm nominal dia threaded each 18.100.8 For 42.70 mm outer dia x 40 mm nominal dia threaded each 18.100.9 For 48.60 mm outer dia x 40 mm nominal dia threaded each 18.100.10 For 48.60 mm outer dia x 50 mm nominal dia threaded each 18.100.10 For 48.60 mm outer dia x 50 mm nominal dia threaded each 18.100.10 For 48.60 mm outer dia x 50 mm nominal dia threaded each 18.100.10 For 48.60 mm outer dia x 50 mm nominal dia threaded each 18.100.10 For 48.60 mm outer dia x 50 mm nominal dia threaded each 18.101.3 out onforming to JWWA G116 standard with V-profile or M-profile and with O-ring sealing gasket of EPDM material of required dia as per direction of Engineer-in-charge. Cap 18.101.1 For 15.88 mm outer dia pipe each 18.101.2 For 22.22 mm outer dia pipe each 18.101.4 For 34.00 mm outer dia pipe each 18.101.5 For 42.70 mm outer dia pipe each 18.101.6 For 48.60 mm outer dia pipe each 18.102.1 For 15.88 mm outer dia pipe each 18.102.1 For 15.88 mm outer dia pipe each 18.102.1 For 22.22 mm outer dia pipe each 18.102.2 For 22.22 mm outer dia pipe each 18.1 |



BASIC RATES (SH: 19.0 DRAINAGE)

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|---------|-----------|
| 0101 | Bhisti | day | 407.00 |
| 0103 | Blacksmith 2nd class | day | 448.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0123 | Mason (brick layer) 1st class | day | 487.00 |
| 0124 | Mason (brick layer) 2nd class | day | 448.00 |
| 0285 | Brick Aggregate (Single size): 63 mm nominal size | cum | 750.00 |
| 0287 | Brick Aggregate (Single size): 40 mm nominal size | cum | 750.00 |
| 0362 | Brick bats | cum | 500.00 |
| 0367 | Portland Cement (OPC-43 grade) | tonne | 5700.00 |
| 0983 | Fine sand (zone IV) | cum | 760.00 |
| 1003 | Mild steel round bar above 12 mm dia | quintal | 3575.00 |
| 1006 | Mild steel square bars | quintal | 3675.00 |
| 1336 | Clearing eye with chain and lid 100 mm dia | each | 44.00 |
| 1337 | Clearing eye with chain and lid 150 mm dia | each | 50.00 |
| 1352 | C.I. cover and frame 300x300 mm inside | each | 300.00 |
| 1353 | C.I. cover without frame 300x300 mm inside i/c cover of 4.50 kg | each | 225.00 |
| 1354 | Rectangular cover 455x610 mm with frame (low duty) | each | 1500.00 |
| 1355 | Rectangular cover 455x610 mm without frame (low duty) | each | 1000.00 |
| 1356 | 500 mm dia cover with frame (medium duty) | each | 4750.00 |
| 1357 | 500 mm dia cover without frame (medium duty) | each | 2300.00 |
| 1364 | C.I. grating 100x100 mm | each | 15.00 |
| 1366 | C.I. grating 150x150 mm | each | 25.00 |
| 1367 | C.I. grating 180x180 mm | each | 30.00 |
| 1617 | S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 100 mm dia | each | 1150.00 |
| 1618 | S.C.I. soil, waste and vent single socketed pipe 1.80 metres long: 150 mm dia | each | 1750.00 |
| 1621 | S.C.I. plain bend 100 mm dia | each | 350.00 |
| 1622 | S.C.I. plain bend 150 mm dia | each | 400.00 |
| 1628 | S.C.I. plain single equal junctions 100x100x100 mm dia | each | 450.00 |
| 1700 | R.C.C. pipes NP2 class 100 mm dia | metre | 200.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--------------------------------------|-------|-----------|
| 1701 | R.C.C. pipes NP2 class 150 mm dia | metre | 210.00 |
| 1702 | R.C.C. pipes NP2 class 250 mm dia | metre | 260.00 |
| 1703 | R.C.C. pipes NP2 class 300 mm dia | metre | 300.00 |
| 1704 | R.C.C. pipes NP2 class 450 mm dia | metre | 400.00 |
| 1705 | R.C.C. pipes NP2 class 500 mm dia | metre | 580.00 |
| 1706 | R.C.C. pipes NP2 class 600 mm dia | metre | 920.00 |
| 1707 | R.C.C. pipes NP2 class 700 mm dia | metre | 1050.00 |
| 1709 | R.C.C. pipes NP2 class 800 mm dia | metre | 1170.00 |
| 1710 | R.C.C. pipes NP2 class 900 mm dia | metre | 1280.00 |
| 1711 | R.C.C. pipes NP2 class 1000 mm dia | metre | 1590.00 |
| 1712 | R.C.C. pipes NP2 class 1100 mm dia | metre | 1875.00 |
| 1713 | R.C.C. pipes NP2 class 1200 mm dia | metre | 1677.00 |
| 1714 | R.C.C. collars NP2 class 100 mm dia | each | 30.00 |
| 1715 | R.C.C. collars NP2 class 150 mm dia | each | 35.00 |
| 1716 | R.C.C. collars NP2 class 250 mm dia | each | 50.00 |
| 1717 | R.C.C. collars NP2 class 300 mm dia | each | 55.00 |
| 1718 | R.C.C. collars NP2 class 450 mm dia | each | 100.00 |
| 1719 | R.C.C. collars NP2 class 500 mm dia | each | 115.00 |
| 1720 | R.C.C. collars NP2 class 600 mm dia | each | 140.00 |
| 1721 | R.C.C. collars NP2 class 700 mm dia | each | 150.00 |
| 1723 | R.C.C. collars NP2 class 800 mm dia | each | 200.00 |
| 1724 | R.C.C. collars NP2 class 900 mm dia | each | 235.00 |
| 1725 | R.C.C. collars NP2 class 1000 mm dia | each | 280.00 |
| 1726 | R.C.C. collars NP2 class 1100 mm dia | each | 300.00 |
| 1727 | R.C.C. collars NP2 class 1200 mm dia | each | 350.00 |
| 1728 | RCC pipe 450 mm dia NP-3 spigot | metre | 1496.00 |
| 1729 | RCC pipe 600 mm dia NP-3 spigot | metre | 1995.00 |
| 1730 | RCC pipe 900 mm dia NP-3 spigot | metre | 3150.00 |
| 1731 | RCC pipe 1000 mm dia NP-3 spigot | metre | 3885.00 |
| 1732 | RCC pipe 1200 mm dia NP-3 spigot | metre | 5040.00 |
| 1733 | RCC pipe 1800 mm dia NP-3 spigot | metre | 9450.00 |
| 1734 | RCC pipe 450 mm dia NP-4 spigot | metre | 1733.00 |
| 1735 | RCC pipe 600 mm dia NP-4 spigot | metre | 2310.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-----------|-----------|
| 1736 | RCC pipe 900 mm dia NP-4 spigot | metre | 4494.00 |
| 1737 | RCC pipe 1000 mm dia NP-4 spigot | metre | 5565.00 |
| 1738 | RCC pipe 1200 mm dia NP-4 spigot | metre | 6510.00 |
| 1739 | RCC pipe 1800 mm dia NP-4 spigot | metre | 13650.00 |
| 1854 | Stoneware pipes grade A (60 cm long) 100 mm dia | each | 50.00 |
| 1855 | Stoneware pipes grade A (60 cm long) 150 mm dia | each | 80.00 |
| 1856 | Stoneware pipes grade A (60 cm long) 200 mm dia | each | 110.00 |
| 1858 | Stoneware pipes grade A (60 cm long) 250 mm dia | each | 210.00 |
| 1859 | Stoneware pipes grade A (60 cm long) 300 mm dia | each | 240.00 |
| 1881 | Spun yarn | kilogram | 50.00 |
| 1900 | S.W. gully trap P type 100x100 mm | each | 90.00 |
| 1902 | S.W. gully trap P type 150x100 mm | each | 130.00 |
| 1904 | S.W. gully trap P type 180x150 mm | each | 225.00 |
| 2201 | Carriage of Bricks | 1000 Nos | 276.72 |
| 2209 | Carriage of Cement | tonne | 92.24 |
| 2224 | Carriage of S.W. pipes 100 mm dia | 100 metre | 138.36 |
| 2225 | Carriage of S.W. pipes 150 mm dia | 100 metre | 276.72 |
| 2226 | Carriage of S.W. pipes 200 mm dia | 100 metre | 461.19 |
| 2228 | Carriage of S.W. pipes 250 mm dia | 100 metre | 790.62 |
| 2229 | Carriage of S.W. pipes 300 mm dia | 100 metre | 988.27 |
| 2260 | Carriage of Brick aggregate | cum | 112.79 |
| 2261 | Carriage of Fine sand (1 part badarpur sand: 2 parts jamuna sand) | cum | 103.77 |
| 2272 | Carriage of stainless steel pipe below 100 mm dia | tonne | 92.24 |
| 2275 | Carriage of R.C.C. pipes 100 mm dia | 100 metre | 226.82 |
| 2281 | Carriage of R.C.C. pipes 150 mm dia | 100 metre | 378.03 |
| 2287 | Carriage of R.C.C. pipes 250 mm dia | 100 metre | 873.84 |
| 2290 | Carriage of R.C.C. pipes 300 mm dia | 100 metre | 1080.08 |
| 2299 | Carriage of R.C.C. pipes 450 & 500 mm dia | 100 metre | 2520.19 |
| 2303 | Carriage of R.C.C. pipes 600,700,750 & 800 mm dia | 100 metre | 3780.28 |
| 2331 | Carriage of R.C.C. pipes 900 mm dia | 100 metre | 5670.42 |
| 2332 | Carriage of R.C.C. pipes 1000 mm dia | 100 metre | 7560.57 |
| 2333 | Carriage of R.C.C. pipes 1100 mm dia | 100 metre | 7560.57 |
| 2334 | Carriage of R.C.C. pipes 1200 mm dia | 100 metre | 7560.57 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-----------|-----------|
| 2336 | Carriage of R.C.C. pipe above 1200 mm dia and upto 1800 mm dia | 100 metre | 7560.57 |
| 2602 | Common burnt clay F.P.S. (non modular) bricks class designation 7.5 | 1000 Nos | 4500.00 |
| 3860 | 560 mm dia cover with frame (Heavy duty) | each | 9000.00 |
| 3861 | 560 mm dia cover without frame (Heavy duty) | each | 5000.00 |
| 7087 | S.C.I. Tee 150 mm | each | 600.00 |
| 7128 | S.W. intercepting trap 100 mm dia | each | 190.00 |
| 7129 | S.W. intercepting trap 150 mm dia | each | 250.00 |
| 7130 | Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D 25 | each | 700.00 |
| 7131 | Square shape 450x450 mm precast R.C.C. manhole cover with frame - L.D 25 | each | 600.00 |
| 7132 | Circular shape 450 mm dia precast R.C.C. manhole cover with frame - L.D 25 | each | 600.00 |
| 7133 | Rectangular shape $500x500$ mm precast R.C.C. manhole cover with frame - M.D 10 | each | 700.00 |
| 7134 | Circular shape 500 mm dia precast R.C.C. manhole cover with frame- M.D10 | each | 600.00 |
| 7135 | Circular shape 560 mm dia precast R.C.C. manhole cover with frame - H.D 20 | each | 920.00 |
| 7136 | Circular shape 560 mm dia precast R.C.C. manhole cover with frame - E.H.D 35 | each | 1225.00 |
| 7354 | Plastic encapsulated M.S. foot rest 30x20x15 cm | each | 115.00 |
| 7380 | Precast R.C.C. grating with frame 500x450 mm horizontal grating | each | 650.00 |
| 7381 | Precast R.C.C. grating with frame 450x100 mm vertical grating | each | 245.00 |
| 8701 | SS pipe 304 grades with fresh fit technology as per JIS 3448 standards. 48.60 mm outer dia | metre | 584.00 |
| 9977 | Carriage | L.S. | 1.73 |
| 9988 | Carriage and sundries | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |

19.0 DRAINAGE

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--------------------------------|-------------------------------|---|-------|-----------|
| | 'Draina | ge' are app vel. Extra a | tes given for all the items under sub-head licable to work executed in soils above sub- soil llowance has to be made for work under sub- soil | | |
| | STONE | WARE PIF | PES AND FITTINGS | | |
| 19.1 | with stif | f mixture of | and jointing glazed stoneware pipes class SP-1 cement mortar in the proportion of 1:1 (1 cement ding testing of joints etc. complete: | | |
| | 19.1.1 | 100 mm d | liameter | metre | 216.25 |
| | 19.1.2 | 150 mm d | liameter | metre | 327.05 |
| | 19.1.3 | 200 mm d | liameter | metre | 423.35 |
| | 19.1.4 | 250 mm d | liameter | metre | 692.50 |
| | 19.1.5 | 300 mm d | liameter | metre | 788.70 |
| 19.2 | sand:1 | 10 graded s | ng cement concrete 1:5:10 (1 cement : 5 coarse stone aggregate 40 mm nominal size) all-round ng bed concrete as per standard design : | | |
| | 19.2.1 | 100 mm c | diameter S.W. pipe | metre | 622.95 |
| | 19.2.2 | 150 mm c | diameter S.W. pipe | metre | 761.85 |
| | 19.2.3 | 200 mm c | diameter S.W. pipe | metre | 888.10 |
| | 19.2.4 | 250 mm c | diameter S.W. pipe | metre | 1027.00 |
| 19.3 | sand: | 10 graded es of S.W. | ng cement concrete 1:5:10 (1 cement : 5 coarse stone aggregate 40 mm nominal size) up to pipes including bed concrete as per standard | | |
| | 19.3.1 | 100 mm c | diameter S.W. pipe | metre | 296.05 |
| | 19.3.2 | 150 mm c | diameter S.W. pipe | metre | 479.85 |
| | 19.3.3 | 200 mm c | diameter S.W. pipe | metre | 564.00 |
| | 19.3.4 | 250 mm c | diameter S.W. pipe | metre | 656.60 |
| | 19.3.5 | 300 mm c | diameter S.W. pipe | metre | 757.60 |
| 19.4 | comple C.I. cov cover to | te with C.I. ver with frar | ng square-mouth S.W. gully trap class SP-1 grating brick masonry chamber with water tight me of 300 x300 mm size (inside) the weight of s than 4.50 kg and frame to be not less than 2.70 design: | | |
| | 19.4.1 | | mm size P type | | |
| | | 19.4.1.1 | With common burnt clay F.P.S. (non modular) | | |
| | | | bricks of class designation 7.5 | each | 1602.40 |
| | | 19.4.1.2 | With Sewer bricks conforming to IS: 4885 | each | 1619.55 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|----------|-------------------------------|--|-------|-----------|
| | 19.4.2 | 150 x 100 | 0 mm size P type | | |
| | | 19.4.2.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 1623.25 |
| | | 19.4.2.2 | With sewer bricks conforming to IS: 4885 | each | 1640.35 |
| | 19.4.3 | 180x150 | mm size P type | | |
| | | 19.4.3.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 1706.55 |
| | | 19.4.3.2 | With Sewer bricks conforming to IS: 4885 | each | 1723.65 |
| 19.5 | concrete | e stacking | S.W. pipes including breaking of joints and bed of useful materials near the site within 50 m lead serviceable materials into municipal dumps : | | |
| | 19.5.1 | 100 mm c | liameter | metre | 36.35 |
| | 19.5.2 | 150 mm c | liameter | metre | 40.15 |
| | 19.5.3 | 200 mm c | liameter | metre | 42.75 |
| | 19.5.4 | 250 mm c | liameter | metre | 45.30 |
| | 19.5.5 | 300 mm c | liameter | metre | 47.85 |
| | 19.5.6 | 350 mm c | liameter | metre | 55.15 |
| | 19.5.7 | 400 mm c | liameter | metre | 60.25 |
| | 19.5.8 | 450 mm c | liameter | metre | 62.85 |
| 19.6 | pipes w | ith collars j on of 1:2 (1 | ng non-pressure NP2 class (light duty) R.C.C. ointed with stiff mixture of cement mortar in the cement: 2 fine sand) including testing of joints | | |
| | 19.6.1 | 100 mm (| dia. R.C.C. pipe | metre | 325.55 |
| | 19.6.2 | 150 mm (| dia. R.C.C. pipe | metre | 356.70 |
| | 19.6.3 | 250 mm (| dia. R.C.C. pipe | metre | 482.05 |
| | 19.6.4 | 300 mm (| dia. R.C.C. pipe | metre | 518.55 |
| | 19.6.5 | 450 mm (| dia. R.C.C. pipe | metre | 720.95 |
| | 19.6.6 | 500 mm (| dia. R.C.C. pipe | metre | 950.30 |
| | 19.6.7 | 600 mm (| dia. R.C.C. pipe | metre | 1397.10 |
| | 19.6.8 | 700 mm (| dia. R.C.C. pipe | metre | 1582.85 |
| | 19.6.9 | 800 mm 0 | dia. R.C.C. pipe | metre | 1770.85 |
| | 19.6.10 | 900 mm (| dia. R.C.C. pipe | metre | 1988.95 |
| | 19.6.11 | 1000 mm | dia. R.C.C. pipe | metre | 2465.50 |
| | 19.6.12 | 1100 mm | dia. R.C.C. pipe | metre | 2911.55 |
| | 19.6.13 | 1200 mm | dia. R.C.C. pipe | metre | 2828.15 |
| | | | | | |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|---|-------------------------|---|-------|-----------|
| 19.7 | Constructing brick masonry manhole in cement mortar 1:4 (1 cement: 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand: 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design: | | | | |
| | 19.7.1 | with fram total weig | e 90x80 cm and 45 cm deep including C.I. cover e (light duty) 455x610 mm internal dimensions, tht of cover and frame to be not less than 38 kg f cover 23 kg and weight of frame 15 kg): | | |
| | | 19.7.1.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 8634.10 |
| | | 19.7.1.2 | With Sewer bricks conforming to IS: 4885 | each | 8678.85 |
| | 19.7.2 | with frame weight of | e 120x90 cm and 90 cm deep including C.I. cover e (medium duty) 500 mm internal diameter, total cover and frame to be not less than 116 kg (weight 58 kg and weight of frame 58 kg): | | |
| | 19.7.2.1 | | mon burnt clay F.P.S. (non modular) bricks of ignation 7.5 | each | 18422.40 |
| | 19.7.2.2 | With Sew | ver bricks conforming to IS: 4885 | each | 18544.90 |
| 19.7.3 | frame (h and fran | eavy duty) | o cm and 90 cm deep including C.I. cover with 560 mm internal diameter, total weight of cover ot less than 208 kg (weight of cover 108 kg and 0 kg): | | |
| | 19.7.3.1 | | mon burnt clay F.P.S. (non modular) bricks of ignation 7.5 | each | 22983.25 |
| | 19.7.3.2 | With Sew | ver bricks conforming to IS: 4885 | each | 23088.60 |
| 19.8 | Extra for | depth for | manholes: | | |
| | 19.8.1 | Size 90x8 | 30 cm | | |
| | | 19.8.1.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | metre | 5718.60 |
| | | 19.8.1.2 | With Sewer bricks conforming to IS: 4885 | metre | 5848.95 |
| | 19.8.2 | Size 120x | x90 cm | | |
| | | 19.8.2.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | metre | 6850.70 |
| | | 19.8.2.2 | With Sewer bricks conforming to IS: 4885 | metre | 7006.10 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--|---|---|-------|-----------|
| 19.9 | dia at bo : 4 coars mortar 1 of neat c sand : 6 necessa sand : 4 | cting brick ottom and 0 se sand), in :3 (1 ceme cement, fou graded sto ary channe I graded sto oating coa | | | |
| | 19.9.1 | 20 grade of ing to I.S. less than ment: 2 of nominal s (Excavations) | ep with SFRC cover and frame (heavy duty, HD-designation) 560 mm internal diameter conform-12592, total weight of cover and frame to be not 182 kg., fixed in cement concrete 1:2:4 (1 cecoarse sand : 4 graded stone aggregate 20 mm ize) including centering, shuttering all complete. on, foot rests and 12mm thick cement plaster at hal surface shall be paid for separately): | | |
| | | 19.9.1.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 8683.75 |
| | | 19.9.1.2 | With Sewer bricks conforming to IS: 4885 | each | 8743.70 |
| 19.10 | | epth for circ 0.91 m to 1 | ular type manhole 0.91m internal dia (at bottom) .67 m | | |
| | 19.10.1 | | mon burnt clay F.P.S. (non modular) bricks of ignation 7.5 | metre | 4911.80 |
| | 19.10.2 | With Sew | er bricks conforming IS : 4885 | metre | 5020.95 |
| 19.11 | bottom a coarse s 1:3 (1 ce cement graded s channel graded s | and 0.56 m sand) inside ement : 3 co foundation stone aggre in cement stone aggre | masonry circular manhole 1.22 m internal dia at a dia at top in cement mortar 1:4 (1 cement :4 e cement plaster 12 mm thick with cement mortar parse sand) finished with a floating coat of neat a concrete 1:3:6 (1 cement : 3 coarse sand : 6 gate 40 mm nominal size) and making necessary a concrete 1:2:4 (1 cement : 2 coarse sand : 4 egate 20 mm nominal size) finished with a floating at, all complete as per standard design : | | |
| | 19.11.1 | 20 grade of ing to I.S. less than ment: 2 of nominal s (Excavation) | ep with SFRC Cover and frame (heavy duty HD-designation) 560 mm internal diameter conform-12592, total weight of cover and frame to be not 182 kg. fixed in cement concrete 1:2:4 (1 cecoarse sand : 4 graded stone aggregate 20 mm ize) including centering, shuttering all complete. on, foot rests and 12 mm thick cement plaster at nal surface shall be paid for separately): | | |
| | | 19.11.1.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 16560.80 |
| | | 19.11.1.2 | With Sewer bricks conforming IS: 4885 | each | 16720.90 |
| | | | | | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|---------------------------------------|-----------|
| 19.12 | Extra depth for circular type manhole 1.22 m internal dia (at bottom beyond 1.68 m to 2.29 m : | 1) | |
| | 19.12.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | metre | 6362.65 |
| | 19.12.2 With Sewer bricks conforming IS: 4885 | metre | 6505.15 |
| 19.13 | Constructing brick masonry circular manhole 1.52 m internal dia a bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of near cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : graded stone aggregate 40 mm nominal size) and making necessar channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design : | 4 ar at 6 Y 4 | |
| | 19.13.1 2.30 m deep with SFRC Cover and frame (heavy duty HE 20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately): | n- ot o - m ə. | |
| | 19.13.1.1 With common burnt clay F.P.S. (non modula bricks of class designation 7.5 | r) each | 35380.05 |
| | 19.13.1.2 With Sewer bricks conforming IS: 4885 | each | 35845.05 |
| 19.14 | Extra depth for circular type manhole 1.52 m internal dia (at bottom beyond 2.30 m : | 1) | |
| | 19.14.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | metre | 15028.55 |
| | 19.14.2 With Sewer bricks conforming IS: 4885 | metre | 15397.05 |
| 19.15 | Providing M.S. foot rests including fixing in manholes with 20x20x1 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : graded stone aggregate 20 mm nominal size) as per standar design : | 6 | |
| | 19.15.1 With 20x20 mm square bar | each | 267.95 |
| | 19.15.2 With 20 mm diameter round bar | each | 240.25 |
| 19.16 | 19.15.2 With 20 mm diameter round bar Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS: 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and | | |

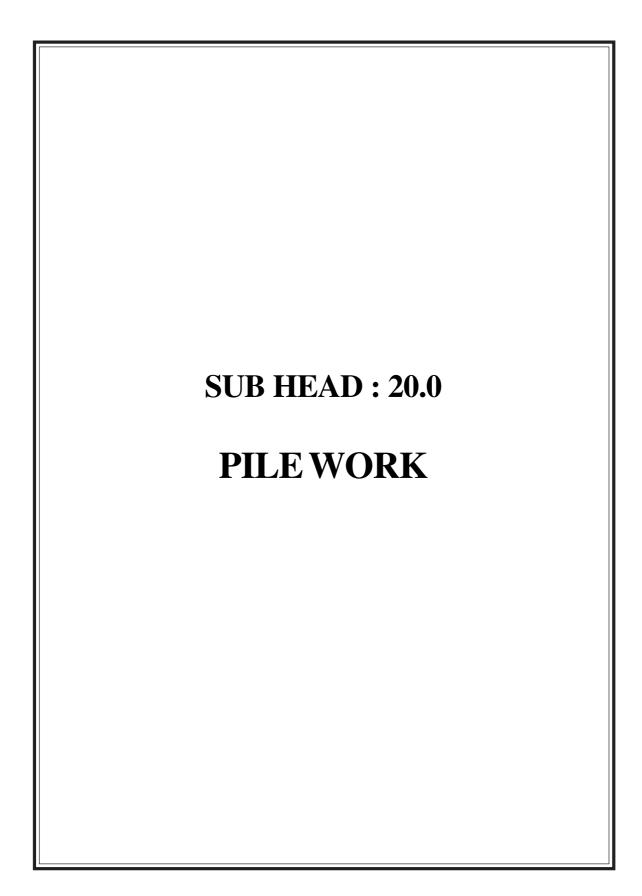
| Code No. | | | Description | Unit | Rate ₹ |
|-------------|---|---|--|--------|-----------|
| | manufac fixing, ir concrete | al resistan cture's perm ncluding fix e block 1:3:0 te 20 mm no | each | 327.90 | |
| 19.17 | concrete | blocks and cement : 3 c | S. foot rests in manholes including dismantling fixing with 20x20x10 cm cement concrete blocks coarse sand: 6 graded stone aggregate 20 mm | | |
| | 19.17.1 | With 20x2 | 0 mm square bar | each | 321.90 |
| | 19.17.2 | With 20 mi | m diameter round bar | each | 294.20 |
| 19.18 | Supplyir | ng and fixing | g C.I. cover without frame for manholes : | | |
| | 19.18.1 | | nm rectangular C.I. cover (light duty) the weight er to be not less than 23 kg | each | 1227.15 |
| | 19.18.2 | | ameter C.I. cover (medium duty) the weight of to be not less than 58 kg | each | 2749.80 |
| | 19.18.3 | | ameter C.I. cover (heavy duty) the weight of the e not less than 108 kg | each | 5891.20 |
| 19.19 | | | in position pre-cast R.C.C. manhole cover and cape and approved quality | | |
| | 19.19.1 | L D- 2.5 | | | |
| | | 19.19.1.1 | Rectangular shape 600x450 mm internal dimensions | each | 1073.05 |
| | | 19.19.1.2 | Square shape 450 mm internal dimensions | each | 902.10 |
| | | 19.19.1.3 | Circular shape 450 mm internal diameter | each | 902.10 |
| | 19.19.2 | M D - 10 | | | |
| | | 19.19.2.1 | Square shape 450 mm internal dimension | each | 1079.35 |
| | 19.19.3 | 19.19.2.2 H D - 20 | Circular shape 500 mm internal diameter | each | 908.35 |
| | | 19.19.3.1 | Circular shape 560 mm internal diameter | each | 1300.95 |
| | 19.19.4 | EHD - 35 | | | |
| | | 19.19.4.1 | Circular shape 560 mm internal dia | each | 1655.20 |
| 19.20 | | | g C.I. cover 300x300 mm without frame for gully rn) the weight of cover to be not less than 4.5 kg | each | 279.60 |
| 19.21 | Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : | | | | 201.15 |
| | 19.21.1 | For pipes | 100 to 250 mm diameter | each | 391.15 |

| Code No. | | Description | Unit | Rate ₹ | | |
|-------------|---|--|-------|-----------|--|--|
| | 19.21.2 | For pipes 250 to 300 mm diameter | each | 463.45 | | |
| | 19.21.3 | For pipes 350 to 450 mm diameter | each | 674.15 | | |
| 19.22 | from brai and clea bend en- 5 fine sa all cente making of coarse so between (1 ceme S.W. pip | g sand cast iron drop connection externally for 60 cm drop nch sewer line to main sewer manhole including inspection uning eye with chain and lid, sand cast iron drop pipe and cased all-round with cement concrete 1:5:10 (1 cement: nd:10 graded stone aggregate 40 mm nominal size) with ering and shuttering required, cutting holes in walls and good with brick work in cement mortar 1:4 (1 cement: 4 sand) plastered with cement mortar 1:3 (1 cement: 3 sand) on inside of the manhole wall, lead caulked joints in sand cast iron pipes and fittings, stiff cement mortar 1:1 ent: 1 fine sand) joints between sand cast iron tee and be, making required channels complete as per standard and specifications: | | | | |
| | 19.22.1 | 100 mm dia sand cast iron drop connection | each | 6637.60 | | |
| | 19.22.2 | 150 mm dia sand cast iron drop connection | each | 8902.10 | | |
| 19.23 | Extra for complete | depths beyond 60 cm of sand cast iron drop connection e: | | | | |
| | 19.23.1 | For 100 mm dia sand cast iron drop connection | metre | 1969.60 | | |
| | 19.23.2 | For 150 mm dia sand cast iron drop connection | metre | 2589.00 | | |
| 19.24 | Dismantling of manhole including R.C.C. top slab, C.I. cover with frame, including stacking of useful materials near the site and disposal of unserviceable materials, all as per direction of Engineer -in-Charge: | | | | | |
| | 19.24.1 | Rectangular manhole 90x80 cm and 45 cm deep | each | 1044.95 | | |
| | | Rectangular manhole 120x90 cm and 90 cm deep | each | 1836.60 | | |
| | 19.24.3 | Rectangular arch type manhole 140x90 cm and 2.45 m deep | each | 3474.50 | | |
| | 19.24.4 | Circular manhole 122 cm diameter and 1.68 m deep | each | 2660.05 | | |
| 19.25 | Extra for | depth of manholes dismantled : | | | | |
| | 19.25.1 | Rectangular manhole 90x80 cm and beyond 45 cm depth | metre | 838.00 | | |
| | 19.25.2 | Rectangular manhole 120x90 cm and beyond 90 cm depth | metre | 998.10 | | |
| | 19.25.3 | Rectangular arch type manhole 140x90 cm and beyond 2.45 m depth (up to 4.25 m depth) | metre | 808.40 | | |
| | 19.25.4 | Circular manhole 122 cm diameter and beyond 1.68 m depth (up to 2.29 m depth) | metre | 911.95 | | |
| 19.26 | Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately): | | | | | |
| | 19.26.1 | Rectangular manhole 90x80 cm with rectangular cover 600 x 450 mm of grade LD - 2.5 | each | 1735.30 | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|------|-----------|
| | 19.26.2 | Rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD - 10 | each | 2719.20 |
| | 19.26.3 | Rectangular manhole 120x90 cm with circular cover 560 mm dia of grade HD - 20 | each | 2528.50 |
| | 19.26.4 | Circular manhole 140 cm dia with circular cover 600 mm dia of grade EHD - 35 | each | 217.00 |
| 19.27 | bricks ir 500x450 | cting brick masonry road gully chamber 50x45x60 cm with cement mortar 1:4 (1 cement : 4 coarse sand) including mm pre-cast R.C.C. horizontal grating with frame complete tandard design : | | |
| | 19.27.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 4043.10 |
| 19.28 | with brid | cting brick masonry road gully chamber 45x45x77.5 cm cks in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. vertical grating complete as per standard design : | | |
| | 19.28.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 4384.50 |
| 19.29 | with bric 500x450 | cting brick masonry road gully chamber 110x50x77.5 cm ks in cement mortar 1:4 (1 cement : 4 coarse sand) including mm precast R.C.C. horizontal grating with frame and vertical complete as per standard design : | | |
| | 19.29.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 7522.15 |
| 19.30 | chambe coarse s dimensi kg (weig slab wit aggrega cement mm nom 1:3 (1 ce of neat | cting brick masonry chamber for underground C.I. inspection or and bends with bricks in cement mortar 1:4 (1 cement : 4 sand) C.I. cover with frame (light duty) 455x610 mm internal ons, total weight of cover with frame to be not less than 38 ght of cover 23 kg and weight of frame 15 kg), R.C.C. top th 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone ate 20 mm nominal size), foundation concrete 1:5:10 (1 : 5 coarse sand (Zone III) : 10 graded stone aggregate 40 minal size), inside plastering 12 mm thick with cement mortar ement : 3 coarse sand), finished smooth with a floating coat cement on walls and bed concrete etc. complete as per didesign: | | |
| | 19.30.1 | Inside dimensions 455x610 mm and 45 cm deep for single pipe line : | | |
| | | 19.30.1.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 4777.35 |
| | 19.30.2 | Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets : | | |
| | | 19.30.2.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 5466.70 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|----------------------|--|-------|-----------|
| | 19.30.3 | Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets : | | |
| | | 19.30.3.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 6350.45 |
| 19.31 | Extra for | r depth beyond 45 cm of brick masonry chamber : | | |
| | 19.31.1 | For 455x610 mm size | | |
| | | 19.31.1.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | metre | 3979.10 |
| | 19.31.2 | For 500x700 mm size | | |
| | | 19.31.2.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | metre | 4340.70 |
| | 19.31.3 | For 600x850 mm size | | |
| | | 19.31.3.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | metre | 5054.50 |
| 19.32 | brick ho | soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry mey comb shaft with bricks and S.W. drain pipe 100 mm er, 1.8 m long complete as per standard design. | | |
| | 19.32.1 | With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 | each | 20681.55 |
| 19.33 | S.W. dra | cting soak pit 1.20x1.20x1.20 m filled with brickbats including ain pipe 100 mm diameter and 1.20 m long complete as per d design. | each | 2116.40 |
| 19.34 | mixture | ng and fixing S.W. intercepting trap in manholes with stiff of cement mortar 1:1 (1 cement : 1 fine sand) including of joints etc. complete : | | |
| | 19.34.1 | 100 mm dia | each | 294.55 |
| | 19.34.2 | 150 mm dia | each | 400.15 |
| 19.35 | pipes in mortar i | g and laying Non Pressure NP-3 class (Medium duty) R.C.C. cluding collars/spigot jointed with stiff mixture of cement n the proportion of 1:2 (1 cement : 2 fine sand) including of joints etc. complete | | |
| | 19.35.1 | 450 mm dia RCC pipes. | metre | 1936.00 |
| | 19.35.2 | 600 mm dia RCC pipes. | metre | 2517.85 |
| | 19.35.3 | 900 mm dia RCC pipes. | metre | 3964.45 |
| | 19.35.4 | 1000 mm dia RCC pipes. (Laying by mannual/ machenical means) | metre | 4905.35 |
| | 19.35.5 | 1200 mm dia RCC pipes. (Laying by mannual/ machenical means) | metre | 6457.85 |
| | 19.35.6 | 1800 mm dia RCC pipes. (Laying by mannual/ machenical means) | metre | 11830.30 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|----------------------|---|-------|-----------|
| 19.36 | pipes in mortar i | ng and laying Non Pressure NP-4 class (Heavy duty) R.C.C. cluding collars/spigot jointed with stiff mixture of cement in the proportion of 1:2 (1 cement : 2 fine sand) including of joints etc. complete | | |
| | 19.36.1 | 450 mm dia RCC pipes. | metre | 2211.25 |
| | 19.36.2 | 600 mm dia RCC pipes. | metre | 2883.70 |
| | 19.36.3 | 900 mm dia RCC pipes. | metre | 5525.50 |
| | 19.36.4 | 1000 mm dia RCC pipes.(Laying by mannual/ machenical means) | metre | 6856.65 |
| | 19.36.5 | 1200 mm dia RCC pipes. (Laying by mannual/ machenical means) | metre | 8165.25 |
| | 19.36.6 | 1800 mm dia RCC pipes. (Laying by mannual/ machenical means) | metre | 16648.75 |



BASIC RATES (SH: 20.0 PILE WORK)

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|----------|-----------|
| 0015 | Hire and running charges of Tripod and Mechanical Winch machine complete with power unit and accessories | day | 2000.00 |
| 0017 | Hire and running charges of tipper | day | 1800.00 |
| 0018 | Hire and running charges of loader | day | 6000.00 |
| 0024 | Hire and running charges of hydraulic piling rig with power unit etc. including complete accessories and shifting at site | day | 34000.00 |
| 0025 | Hire and running charges of light crane | day | 2500.00 |
| 0026 | Hire and running charges of bentonite pump | day | 4200.00 |
| 0027 | Hire and running charges of vibrating pile driving hammer complete with power unit and accessories | day | 35000.00 |
| 0028 | Hire and running charges of crane 20 tonne capacity | day | 9300.00 |
| 0800 | Hire and running charges of of dril machine up to 400 mm dia (including cost of mobile oil, diesel consumption in ordinary soil and operator) | day | 7500.00 |
| 0081 | Pile Integrity testing equipment | day | 3000.00 |
| 0114 | Beldar | day | 368.00 |
| 0130 | Mistry | day | 487.00 |
| 0160 | Technician | day | 775.00 |
| 0161 | Helper (Technician) | day | 368.00 |
| 7181 | C.I. pile shoe of 80 kg per pile | kilogram | 50.00 |
| 7182 | M.S. clamps for pile shoe of 35 kg per pile | kilogram | 45.00 |
| 7183 | Bentonite | tonne | 3100.00 |
| 7246 | Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification and up to 50 tonne capacity pile | per test | 33200.00 |
| 7247 | Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & above 50 tonne and up to 100 tonne | per test | 40300.00 |
| 7248 | Vertical load testing (initial) of piles in accordance with IS: 2911 (Part-IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & group of two or more up to 50 tonne | per test | 48500.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|----------|-----------|
| 7249 | Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile up to 50 tonne capacity | per test | 15000.00 |
| 7250 | Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Single pile above 50 tonne capacity pile and up to 100 tonne capacity pile | per test | 23000.00 |
| 7251 | Cyclic vertical load testing of piles in accordance with IS: 2911 (Part-IV) including preparation of pile head etc. for Group of two piles up to 50 tonne capacity each | per test | 29500.00 |
| 7252 | Lateral load testing of single pile in accordance with IS: 2911 part -IV for determining safe allowable lateral load on pile up to 50 tonne capacity | per test | 15000.00 |
| 7253 | Lateral load testing of single pile in accordance with IS: 2911 part-IV for determining safe allowable lateral load on pile above 50 tonne capacity | per test | 23600.00 |
| 9977 | Carriage | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |

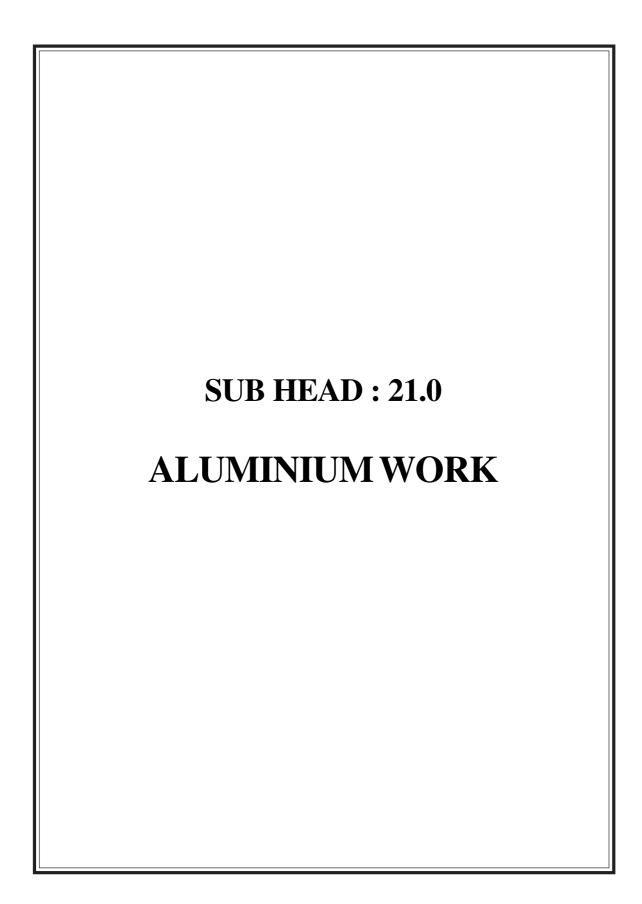
20.0 PILE WORK

| Code No. | | Description | Unit | Rate ₹ | |
|-------------|---|---|-------|-----------|--|
| 20.1 | and inst grade M carry sa of steel of pile to | ng, driving with hydraulic piling rigs with power units alling driven cast-in-situ reinforced cement concrete piles of 1-25 of specified diameter and length below the pile cap, to use working load not less than specified, excluding the cost reinforcement but including the cost of shoe and the length of be embedded in the pile cap etc. all complete. (Length of payment shall be measured from top of shoe to the bottom ap): | | | |
| | 20.1.1 | 400 mm dia piles | metre | 1949.70 | |
| | 20.1.2 | 450 mm dia piles | metre | 2389.70 | |
| | 20.1.3 | 500 mm dia piles | metre | 2880.60 | |
| | 20.1.4 | 550 mm dia piles | metre | 3130.60 | |
| | 20.1.5 | 750 mm dia piles | metre | 5313.10 | |
| | 20.1.6 | 1000 mm dia piles | metre | 8771.25 | |
| | 20.1.7 | 1200 mm dia piles | metre | 11352.00 | |
| | 20.1.8 | 1500 mm dia piles | metre | 16017.80 | |
| 20.2 | Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using Direct mud circulation (DMC) or Bailer and chisel technique by tripod and mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap). | | | | |
| | note: I | ruck Mounted rotary/TMR/Tubewell boring machine shall used. | | | |
| | 20.2.1 | 450 mm dia piles | metre | 1496.45 | |
| | 20.2.2 | 500 mm dia piles | metre | 1757.85 | |
| | 20.2.3 | 600 mm dia piles | metre | 2391.45 | |
| | 20.2.4 | 750 mm dia piles | metre | 3693.20 | |
| 20.2A | Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of garde M-25 of specified diameter and length below pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by Crawler mounted, telescopic boom hydraulic pilling Rig all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap). | | | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|-------|-----------|
| | Note: T not be u | ruck Mounted rotary/TMR/Tube well boring machine shall sed. | | |
| | 20.2A.1 | 600 mm dia piles | metre | 3698.15 |
| | 20.2A.2 | 750 mm dia piles | metre | 5319.30 |
| | 20.2A.3 | 1000 mm dia piles | metre | 8872.40 |
| | 20.2A.4 | 1200 mm dia piles | metre | 11597.55 |
| | 20.2A.5 | 1500 mm dia piles | metre | 16640.70 |
| 20.3 | and inst diamete carry a cost of bentonit cap etc. | with hydraulic piling rigs with power units, Providing talling cast in situ single under reamed piles of specified er and length below pile cap in M-25 cement concrete, to safe working load not less than specified, excluding the steel reinforcement but including the cost of boring with the solution and the length of the pile to be embedded in pile all complete. (Length of pile for payment shall be measured the bottom of pile cap): | | |
| | 20.3.1 | 300 mm dia piles | metre | 2143.05 |
| | 20.3.2 | 400 mm dia piles | metre | 2601.30 |
| | 20.3.3 | 450 mm dia piles | metre | 2875.10 |
| | 20.3.4 | 550 mm dia piles | metre | 3199.85 |
| 20.4 | in unde | ver single under ream for providing additional bulbs er reamed piles ,under specified diameter. (only the extra bulbs are to be paid) | | |
| | 20.4.1 | 300 mm dia piles | each | 1529.90 |
| | 20.4.2 | 400 mm dia piles | each | 1734.10 |
| | 20.4.3 | 450 mm dia piles | each | 1857.35 |
| | 20.4.4 | 550 mm dia piles | each | 2048.70 |
| 20.5 | with po reinforce below th load not with M.S grouting pressure driving a complet pile for | ng, driving (with vibrating pile driving hammer complete ower units & accessories) and installing driven Pre-cast ed cement concrete piles of specified diameter and length ne pile cap in M-25 cement concrete to carry safe working a less than specified with a central through preformed hole is black pipe of dia, 40 mm for grouting with cement sand of mix 1:2 (1cement: 2 coarse sand) under sufficient positive e to ensure complete filling including centring, shuttering, and removing the steel casing pipe and lifting casing etc. the but excluding the cost of steel reinforcement. (Length of payment shall be measured from top of the shoe to the of pile cap). | | |
| | 20.5.1 | 400 mm dia piles | metre | 2529.65 |
| | 20.5.2 | 450 mm dia piles | metre | 3065.05 |
| | 20.5.3 | 500 mm dia piles | metre | 3251.85 |
| | 20.5.4 | 550 mm dia piles | metre | 3672.95 |
| | 20.5.5 | 750 mm dia piles | metre | 6801.70 |
| | 20.5.6 | 1000 mm dia piles | metre | 9261.85 |

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|--------------------------------|---|---|----------|-----------|
| 20.6 | including method dismant | g installation and preparat ling of test ca | of piles in accordance with IS 2911 (Part IV) of loading platform by Kentledge/Anchor piles ion of pile head or construction of test cap and ap after test etc. complete as per specification gineer in-charge. | | |
| | | . Initial and F c method of t | Routine Load Test shall not be carried out by esting. | | |
| | | | ncy shall submitt the design of loading platform gineer-in-charge. | | |
| | 20.6.1 | Single pile | upto 50 tonne Safe capacity | | |
| | | 20.6.1.1 | Initial test (Test Load 2.5 times the Safe capacity) | per test | 38561.80 |
| | | 20.6.1.2 | Routine test (Test Load 1.5 times the Safe capacity) | per test | 17422.50 |
| | 20.6.2 | Single pile capacity | above 50 tonne and upto 100 tonne Safe | | |
| | | 20.6.2.1 | Initial test (Test Load 2.5 times the Safe capacity) | per test | 46808.45 |
| | | 20.6.2.2 | Routine test (Test Load 1.5 times the Safe capacity) | per test | 26714.50 |
| | 20.6.3 | Group of t | wo or more piles upto 50 tonne Safe capacity | | |
| | | 20.6.3.1 | Initial test (Test Load 2.5 times the Safe capacity) | per test | 56332.75 |
| | | 20.6.3.2 | Routine test (Test Load 1.5 times the Safe capacity) | per test | 34264.25 |
| 20.7 | practice | | esting of pile in accordance with IS Code of IV) by Kentledge method including preparation | | |
| | 20.7.1 | Single pile | | | |
| | | 20.7.1.1 | Upto 50 tonne Safe capacity pile | per test | 17422.50 |
| | | 20.7.1.2 | Above 50 tonne and upto 100 tonne Safe capacity pile | per test | 26714.50 |
| | 20.7.2 | Group of to | vo or more piles | | |
| | | 20.7.2.1 | Upto 400 tonne Safe capacity of group | per test | 34264.25 |
| 20.8 | | IS: 2911 (P | of single pile in accordance with IS Code of lart IV) for determining safe allowable lateral | | |
| | 20.8.1 | Upto 50 to | nne capacity pile | per test | 17422.50 |
| | 20.8.2 | Above 50 t | onne and upto 100 tonne capacity pile | per test | 27411.40 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|----------|-----------|
| 20.9 | Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge. | per test | 750.95 |
| | Note :- The inclusion of the above item in the schedule of work shall be judiciously decided by the technical sanctioning authority, keeping in view the quality control, type of soil strata & importance of the project. | | |



BASIC RATES (SH: 21.0 ALUMINIUM WORK)

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|---------|-----------|
| 0100 | Bandhani | day | 407.00 |
| 0111 | Carpenter 1st class | day | 487.00 |
| 0112 | Carpenter 2nd class | day | 448.00 |
| 0114 | Beldar | day | 368.00 |
| 0116 | Fitter (grade 1) | day | 487.00 |
| 0119 | Glazier | day | 448.00 |
| 0123 | Mason (brick layer) 1st class | day | 487.00 |
| 0124 | Mason (brick layer) 2nd class | day | 448.00 |
| 0139 | Skilled Beldar (for floor rubbing etc.) | day | 407.00 |
| 0589 | Chromium plated Brass screws 20 mm | 100 Nos | 170.00 |
| 0689 | Anodised Aluminium butt hinges 100x75x4 mm | 10 Nos | 400.00 |
| 0992 | Galvanised steel plain sheets | quintal | 5600.00 |
| 2406 | Float glass sheet of nominal thickness 4 mm (weight not less than 10 kg/sqm) | sqm | 286.00 |
| 2407 | Float glass sheet of nominal thickness 5.5 mm (weight not less than 13.50 kg/sqm) | sqm | 490.00 |
| 2408 | Float glass sheet of nominal thickness 8 mm (weight not less than 20.00 kg/sqm) | sqm | 605.00 |
| 2704 | Aluminium Strip 40 mm wide and 2 mm thick | kg | 225.00 |
| 7001 | Brass 100mm mortice latch and lock with 6 levers without pair of handles | each | 220.00 |
| 7019 | Dash fastener/chemical fastener | each | 15.00 |
| 7048 | Rawl plug 50 mm (designation 10 nos) | each | 10.00 |
| 7306 | Aluminium T or L sections | kg | 200.00 |
| 7313 | Expandable fastener with plastic sleeve and MS screws. 32 mm long | each | 11.00 |
| 7347 | Cadmium plated full threaded steel screws (30x4 mm dia) | 100 Nos | 28.00 |
| 7348 | Aluminium washer 2 mm thick 15 mm dia | 100 Nos | 10.00 |
| 7388 | Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt | each | 12.00 |
| 7389 | Anodising 15 microns on aluminium sections | kg | 40.00 |
| 7390 | EPDM Gasket for uPVC window/door | metre | 20.00 |
| 7391 | Anodising 25 microns on aluminium sections | kg | 50.00 |
| 7392 | Powder coating 50 microns on aluminium sections | kg | 64.00 |
| 7393 | Polyester powder coating 50 microns on aluminium sections | kg | 70.00 |
| 7394 | Double action hydraulic floor spring with stainless steel cover plate | each | 1550.00 |
| 7395 | 6 mm dia G.I. adjustable hangers including clips (up to 1.2 m length) | each | 20.00 |
| 7396 | Double action hydraulic floor spring with brass cover plate | each | 1700.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-----------|-----------|
| 7477 | Prelaminated particle board with one side decorative and other side balancing lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS: 12823 (exterior grade) 12 mm thick | sqm | 563.00 |
| 7480 | Prelaminated particle board with both sides decorative lamination, flat pressed 3 layer & graded (medium density) Grade I, Type II conforming to IS: 12823 (exterior grade) 12 mm thick | sqm | 596.00 |
| 8646 | Silicon sealant | cartridge | 100.00 |
| 8647 | Stainless steel screws 30 x 4 mm | 100 Nos | 32.00 |
| 8648 | Hermetically sealed double glazed unit made with 6 mm thick clear float glass both side having 12 mm air gap | sqm | 2108.00 |
| 8649 | Stainless steel (SS 304 grade) adjustable friction window stay 205 x 19 mm | each | 169.00 |
| 8650 | Stainless steel (SS 304 grade) adjustable friction window stay $255 \times 19 \text{ mm}$ | each | 219.00 |
| 8651 | Stainless steel (SS 304 grade) adjustable friction window stay 355 x 19 mm | each | 191.00 |
| 8652 | Stainless steel (SS 304 grade) adjustable friction window stay $510 \times 19 \text{ mm}$ | each | 515.00 |
| 8653 | Stainless steel (SS 304 grade) adjustable friction window stay $710 \times 19 \text{ mm}$ | each | 889.00 |
| 8654 | Masking tape | metre | 2.30 |
| 8660 | Aluminium casement window fastener (Anodised AC 15) | each | 40.00 |
| 8661 | Aluminium casement window fastener (powder coated) | each | 43.00 |
| 8662 | Aluminium casement window fastener (polyester powder coated) | each | 42.00 |
| 8663 | Aluminium round shape handle (anodised AC 15) outer dia 100mm | each | 49.00 |
| 8664 | Aluminium round shape handle (powder coated) outer dia 100 mm | each | 54.00 |
| 8665 | Aluminium round shape handle (polyester powder coated) outer dia 100 mm | each | 59.00 |
| 8666 | Stainless steel screws 25 x 4 mm | 100 Nos | 35.00 |
| 8774 | Aluminium Grill | kg | 250.00 |
| 8776 | Stainless steel dash fastener of 8 mm dia and 75 mm long bolt | each | 14.00 |
| 8778 | Toughened glass 12 mm thickness | sqm | 1747.00 |
| 9977 | Carriage | L.S. | 1.73 |
| 9988 | Carriage and sundries | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |

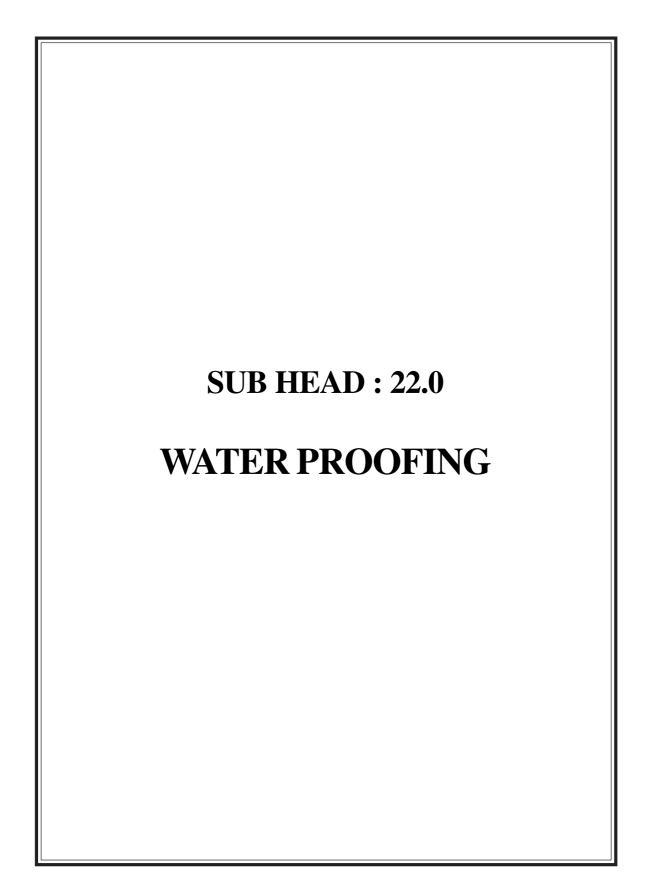
21.0 ALUMINIUM WORK

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|---|--|--|------|-----------|
| 21.1 | and parti appropria conforming required junctions neoprene free, stratincluding C.P. brast drawings | itions with eate Z section to IS: 733 dia and size, i.e. at top, be gasket etclight, mitred cleat angle, as / stainless and the direction. | luminium work for doors, windows, ventilators extruded built up standard tubular sections/ons and other sections of approved make 3 and IS: 1285, fixing with dash fasteners of e, including necessary filling up the gaps at cottom and sides with required EPDM rubber/e. Aluminium sections shall be smooth, rust and jointed mechanically wherever required Aluminium snap beading for glazing / paneling, steel screws, all complete as per architectural ctions of Engineer-in-charge. (Glazing, paneling o be paid for separately): | | |
| | 21.1.1 | For fixed | portion | | |
| | | 21.1.1.1 | Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) | kg | 355.20 |
| | | 21.1.1.2 | Powder coated aluminium (minimum thickness of powder coating 50 micron) | kg | 384.50 |
| | | 21.1.1.3 | Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron) | kg | 391.80 |
| | 21.1.2 | providing for fixing of of EPDM | ers of doors, windows & ventilators including and fixing hinges/ pivots and making provision of fittings wherever required including the cost rubber / neoprene gasket required (Fittings aid for separately) | | |
| | | 21.1.2.1 | Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) | kg | 415.05 |
| | | 21.1.2.2 | Powder coated aluminium (minimum thickness of powder coating 50 micron) | kg | 444.90 |
| | | 21.1.2.3 | Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron) | kg | 452.40 |
| 21.2 | pressed t 12823 Gr shutters a etc. com | hree layer or ade I Type II, and partition | 12 mm thick prelaminated particle board flat graded wood particle board conforming to IS: in panelling fixed in aluminum doors, windows frames with C.P. brass / stainless steel screws or architectural drawings and directions of | | |
| | 21.2.1 | | nated particle board with decorative lamination de and balancing lamination on other side | sqm | 826.35 |
| | 21.2.2 | Pre-lamin on both s | nated particle board with decorative lamination ides | sqm | 866.60 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|--|------|-----------|
| 21.3 | shutters etc. comp of Engine | g and fixing glazing in aluminium door, window, ventilator and partitions etc. with EPDM rubber / neoprene gasket plete as per the architectural drawings and the directions eer-in-charge. (Cost of aluminium snap beading shall be asic item): | | |
| | 21.3.1 | With float glass panes of 4.0 mm thickness | sqm | 741.50 |
| | 21.3.2 | With float glass panes of 5.50 mm thickness | sqm | 1003.95 |
| | 21.3.3 | With float glass panes of 8 mm thickness | sqm | 1153.90 |
| 21.4 | brand and embossedoor weig embeddir to the exi | and fixing double action hydraulic floor spring of approved d manufacture conforming to IS: 6315, having brand logo and on the body / plate with double spring mechanism and ght upto 125 kg, for doors, including cost of cutting floors, and in floors as required and making good the same matching sting floor finishing and cover plates with brass pivot and see M.S. sheet outer box with slide plate etc. complete as rection of Engineer-in-charge. | | |
| | 21.4.1 | With stainless steel cover plate minimum 1.25 mm thickness | each | 2054.40 |
| | 21.4.2 | With brass cover plate minimum 1.25 mm thickness | each | 2228.60 |
| 21.5 | thickness sections, ceiling ind stainless wall with fixing the necessar approved charge (le | g and fixing powder coated aluminium work (minimum of of powder coating 50 micron) consisting of tee/ angle of approved make conforming to IS: 733 in frames of false cluding aluminium angle cleats with necessary C.P. brass/ steel sunk screws, aluminium perimeter angles fixed to stainless steel rawl plugs @ 450 mm centre to centre and frame work to G.I. level adjusting hangers 6 mm dia. with ry cadmium plated machine screws all complete as per diarchitectural drawings and direction of the Engineer-inevel adjusting hangers, ceiling cleats and expansion hold at to be paid for separately). | kg | 478.85 |
| 21.6 | Providing 1200mm out of G expandab | g and fixing 6 mm dia. G.I. level adjusting hangers (upto length), fixed to roof slabs by means of ceiling cleats made. I. flat 40x3mm size 60 mm long and stainless steel ble dash fastener of 12.5 mm dia and 50 mm long, complete ection of Engineer-in-charge. | each | 55.20 |
| 21.7 | Providing pattern 8 machine vertical si side of jo of 8 mm washers centre to providing | and fixing machine moulded aluminium covering of approved a design, made out of machine cut aluminium sheet and holed for receiving dash fastener, over expansion joints on urfaces/ceiling floors, the fixing on plate in one row on one int only shall be done with stainless steel dash fasteners dia and 75 mm long bolt including providing aluminium 2 mm thick & 15 mm dia, at a staggered pitch of 200mm centre including drilling holes in the receiving surface and expandable plastic sleeves in holes etc. complete as per of Engineer-in-charge. | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|-------|-----------|
| | 21.7.1 | Anodised aluminium sheet 2.5mm thick (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15) | kg | 455.85 |
| | 21.7.2 | Powder coated aluminium sheet 2.5mm thick (minimum thickness of powder coating 50 micron) | kg | 485.15 |
| 21.8 | Stone wo | e gap in between aluminium frame & adjacent RCC/ Brick/ ork by providing weather silicon sealant over backer rod of d quality as per architectural drawings and direction of -in-charge complete. | | |
| | 21.8.1 | Upto 5mm depth and 5 mm width | metre | 62.45 |
| 21.9 | | applying additional anodic coating AC 25 instead of AC 15 ium extruded sections. | | |
| | 21.9.1 | For fixed portion | kg | 11.60 |
| | 21.9.2 | For shutters of doors, windows & ventilators | kg | 11.60 |
| 21.10 | aluminiur clear floa EPDM ga (Both pri | g and fixing double glazed hermetically sealed glazing in m windows, ventilators and partition etc. with 6 mm thick t glass both side, having 12 mm air gap, including providing asket, perforated aluminium spacers, desiccants, sealant mary and secondary sealant) etc. as per specifications, and direction of Engineer-in-charge complete. | sqm | 3176.20 |
| 21.11 | windows screws e | and fixing stainless steel (SS 304 grade) adjustable friction stays of approved quality with necessary stainless steel to. to the side hung windows as per direction of Engineer-complete. | | |
| | 21.11.1 | 205 X 19 mm | each | 211.60 |
| | 21.11.2 | 255 X 19 mm | each | 269.65 |
| | 21.11.3 | 355 X 19 mm | each | 237.15 |
| | 21.11.4 | 510 X 19 mm | each | 613.45 |
| | 21.11.5 | 710 X 19 mm | each | 1047.85 |
| 21.12 | 3.0 mm tl | and fixing aluminium tubular handle bar 32 mm outer dia, nick & 2100 mm long with SS screws etc .complete as per of Engineer-in-Charge. | | |
| | 21.12.1 | Anodized (AC 15) aluminium tubular handle bar | each | 463.75 |
| | 21.12.2 | Powder coated minimum thickness 50 micron aluminium tubular handle bar | each | 509.30 |
| | 21.12.3 | Polyester powder coated minimum thickness 50 micron aluminium tubular handle bar | each | 520.70 |
| 21.13 | quality) fo | g and fixing 100mm brass locks (best make of approved or aluminium doors including necessary cutting and making complete. | each | 359.00 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|-------|-----------|
| 21.14 | dyed to r coating of with extr make con | g and fixing anodised aluminium (anodised transparent or required shade according to IS: 1868. Minimum anodic f grade AC 15) sub frame work for windows and ventilators uded built up standard tubular sections of approved aforming to IS: 733 and IS: 1285, fixed with dash fastener of dia and size (Dash fastener to be paid for separately). | kg | 315.10 |
| 21.15 | _ | and fixing aluminium casement windows fastener of required aluminium windows with necessary screws etc. complete. | | |
| | 21.15.1 | Anodized (AC 15) aluminium | each | 52.00 |
| | 21.15.2 | Powder coated minimum thickness 50 micron aluminium | each | 55.50 |
| | 21.15.3 | Polyester powder coated minimum thickness 50 micron aluminium | each | 54.35 |
| 21.16 | _ | and fixing aluminium round shape handle of outer dia 100 SS screws etc. complete as per direction of Engineer-in- | | |
| | 21.16.1 | Anodized (AC 15) aluminium | each | 62.50 |
| | 21.16.2 | Powder coated minimum thickness 50 micron aluminium | each | 68.30 |
| | 21.16.3 | Polyester powder coated minimum thickness 50 micron aluminium | each | 74.10 |
| 21.17 | or dyed to coating of standard brass/ sta cutting th handles a around th | and fixing anodised aluminium grill (anodised transparent required shade according to IS: 1868 with minimum anodic f grade AC 15) of approved design/pattern, with approved section and fixed to the existing window frame with C.P. ainless steel screws @ 200 mm centre to centre, including the grill to proper opening size for fixing and operation of and fixing approved anodised aluminium standard section the opening, all complete as per requirement and direction the eer-in-charge. (Only weight of grill to be measured for | kg | 408.85 |
| 21.18 | Providing shutter of fixing top necessar as per dire | g and fixing 12 mm thick frameless toughened glass door approved brand and manufacture, including providing and & bottom pivot & spring type fixing arrangement and making by holes etc. for fixing required door fittings, all complete ection of Engineer-in-charge (Door handle, lock and stopper | | |
| 21.19 | Filling the and adjace by proving sealant architect complete | paid separately). he gap in between aluminium/ stone/ wood frame cent RCC/ Brick/ Stone/ wood/ Ceramic/ Gypsum work iding weather/structural non sag elastomeric PU over backer rod of approved quality as per tural drawings and direction of Engineer-in-charge e, complying to ASTM C920, DIN 18540-F & ISO 11600 | sqm | 4608.85 |
| | 21.19.1 | Upto 5 mm depth and 5 mm width | metre | 96.65 |
| | 21.19.2 | Upto 10 mm depth and 10 mm width | metre | 133.20 |
| | 21.19.3 | Upto 20 mm depth and 20 mm width | metre | 245.85 |



BASIC RATES (SH: 22.0 WATER PROOFING)

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|---------|-----------|
| 0002 | Hire charges of Concrete Mixer 0.25 to 0.40 cum with Hopper | day | 800.00 |
| 0012 | Vibrator (needle type 40 mm) | day | 350.00 |
| 0101 | Bhisti | day | 407.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0123 | Mason (brick layer) 1st class | day | 487.00 |
| 0124 | Mason (brick layer) 2nd class | day | 448.00 |
| 0125 | Mason (for plain stone work) 2nd class | day | 448.00 |
| 0128 | Mate | day | 407.00 |
| 0130 | Mistry | day | 487.00 |
| 0131 | Painter | day | 448.00 |
| 0155 | Mason (average) | day | 467.00 |
| 0159 | Skilled torch operator for laying tack | day | 487.00 |
| 0285 | Brick Aggregate (single size): 63 mm nominal size | cum | 750.00 |
| 0295 | Stone Aggregate (single size) : 20 mm nominal size | cum | 1300.00 |
| 0296 | Stone Aggregate (single size): 12.5 mm nominal size | cum | 1300.00 |
| 0297 | Stone Aggregate (single size): 10 mm nominal size | cum | 1300.00 |
| 0313 | Blown type petroleum bitumen of penetration 85/25 of approved quality | tonne | 34561.00 |
| 0316 | Bitumen solution primer of approved quality | litre | 50.00 |
| 0318 | Bitumen felt fibre base (vegetable or animal):As per IS 7193 Grade I | sqm | 70.00 |
| 0319 | Bitumen felt as per IS 7193 Grade-II | sqm | 80.00 |
| 0322 | Bitumen felt :Type 3 Grade I | sqm | 70.00 |
| 0367 | Portland Cement (OPC-43 Grade) | tonne | 5700.00 |
| 0370 | Coal (steam) | quintal | 400.00 |
| 0982 | Coarse sand (zone III) | cum | 1200.00 |
| 1169 | Kota stone slab 25mm thick (rough chiseled) | sqm | 280.00 |
| 1177 | Stone grit 6 mm and down size or pea sized gravel | cum | 795.00 |
| 1213 | Water proofing materials | kg | 35.00 |
| 1241 | Commercial LPG in cylinder | kg | 65.00 |
| 2200 | Carriage of Steam coal | tonne | 118.59 |
| 2202 | Carriage of Stone aggregate below 40 mm nominal size | cum | 103.77 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-------|-----------|
| 2203 | Carriage of coarse sand | cum | 103.77 |
| 2209 | Carriage of cement | tonne | 92.24 |
| 2211 | Carriage of Tar / Bitumen | tonne | 103.77 |
| 2216 | Carriage of stone blocks white & red sand stone & kota stone slab | tonne | 92.24 |
| 2260 | Carriage of brick aggregate | cum | 112.79 |
| 3002 | Polyvinyl chloride sheet 400 micron thick | sqm | 40.00 |
| 7233 | Fibre glass tissue reinforcement Type II Grade i | sqm | 86.00 |
| 7427 | Water stops serrated with central bulb (225 mm wide, 8-11 mm thick) | metre | 211.00 |
| 7428 | Water stops dumb bell with central bulb | metre | 165.00 |
| 7429 | Kickers | metre | 195.00 |
| 8200 | A.P.P. modified polymeric felt (two layers) 1.5 mm thick | sqm | 75.00 |
| 8201 | A.P.P. modified polymeric felt (two layers) 2 mm thick | sqm | 98.00 |
| 8203 | A.P.P. modified 2 mm thick membrane reinforced with glass fibre matt | sqm | 100.00 |
| 8204 | A.P.P. modified 3 mm thick membrane reinforced with glass fibre matt | sqm | 200.00 |
| 8205 | A.P.P. modified 3 mm thick membrane reinforced with polyester matt | sqm | 205.00 |
| 8206 | Bitumen primer for bitumen membrane | litre | 90.00 |
| 8207 | Geotextile 120 grams per sqm membrane | sqm | 45.00 |
| 8501 | Polymer modified cementation coating | kg | 140.00 |
| 8502 | Fibre glass cloth | sqm | 44.00 |
| 9977 | Carriage | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |

22.0 WATER PROOFING

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|------|-----------|
| 22.1 | Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of: (i) Ist layer of 22 mm to 25 mm thick approved and specified rough stone slab over a 25 mm thick base of cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound. (ii) 2nd layer of 25 mm thick cement mortar 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportions. (iii) Finishing top with stone aggregate of 10 mm to 12 mm nominal size spreading @ 8 cudm/sqm thoroughly embedded in the 2nd layer. | | |
| | 22.1.1 Using rough kota stone. | sqm | 1017.55 |
| 22.2 | Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25 mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20 mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20 mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge : | | |
| | 22.2.1 Using rough Kota stone | sqm | 1253.30 |
| 22.3 | Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. Ind course of 20 mm cement plaster 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. Illrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other | | |
| | with bitumen @ 1.7 kg/ sqm). | sqm | 505.90 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|-------|-----------|
| 22.4 | conformir two RCC | g and Placing in position suitable PVC water stops ng to IS:12200 for construction/ expansion joints between members and fixed to the reinforcement with binding wire uring concrete etc. complete: | | |
| | 22.4.1 | Serrated with central bulb (225 mm wide, 8-11 mm thick) | metre | 254.15 |
| | 22.4.2 | Dumb bell with central bulb (180 mm wide, 8 mm thick) | metre | 200.70 |
| | 22.4.3 | Kickers (320 mm wide, 5 mm thick) | metre | 235.55 |
| 22.5 | WCs, bat proofing of (a) First I proof allow (b) Seco water will be for 48 and s | and laying water proofing treatment in sunken portion of hroom etc., by applying cement slurry mixed with water cement compound consisting of applying: ayer of slurry of cement @ 0.488 kg/sqm mixed with water ing cement compound @ 0.253 kg/ sqm. This layer will be ed to air cure for 4 hours. Ind layer of slurry of cement @ 0.242 kg/sqm mixed with reproofing cement compound @ 0.126 kg/sqm. This layer e allowed to air cure for 4 hours followed with water curing to hours. The rate includes preparation of surface, treatment ealing of all joints, corners, junctions of pipes and masonry polymer mixed slurry. | sqm | 298.30 |
| 22.6 | Providing applying consisting (a) after @ 0.4 @ 0.5 (b) laying still g than (c) third @ 1.2 @ 0.6 be all hours wall a (d) fourth will be | and laying water proofing treatment on roofs of slabs by cement slurry mixed with water proofing cement compound g of applying: surface preparation, first layer of slurry of cement 488 kg/sqm mixed with water proofing cement compound 253 kg/sqm. g second layer of Fibre glass cloth when the first layer is reen. Overlaps of joints of fibre cloth should not be less 10 cm. layer of 1.5 mm thickness consisting of slurry of cement 289 kg/sqm mixed with water proofing cement compound 670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will owed to air cure for 4 hours followed by water curing for 48 s. The entire treatment will be taken upto 30 cm on parapet and tucked into groove in parapet all around. In and final layer of brick tiling with cement mortar (which a paid for separately. For the purpose of measurement the treated surface will be measured. | sqm | 395.00 |
| 22.7 | including balconies (a) Apply ceme IS. 26 including the su (b) Layin mm to coars to IS: | and laying integral cement based water proofing treatment preparation of surface as required for treatment of roofs, s, terraces etc consisting of following operations: ring a slurry coat of neat cement using 2.75 kg/sqm of ent admixed with water proofing compound conforming to e45 and approved by Engineer-in-charge over the RCC slab ding adjoining walls upto 300 mm height including cleaning surface before treatment. g brick bats with mortar using broken bricks/brick bats 25 to 115 mm size with 50% of cement mortar 1:5 (1 cement: 5 to e sand) admixed with water proofing compound conforming 2645 and approved by Engineer-in-charge over 20 mm thick of cement mortar of mix 1:5 (1 cement: 5 coarse sand) admixed | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|------|------------------|
| | by Engadjoini of wall (c) After the slurry composition of mix composition composition to play with a square (e) The with above | ater proofing compound conforming to IS: 2645 and approved gineer-in-charge to required slope and treating similarly the ing walls upto 300 mm height including rounding of junctions is and slabs. We days of proper curing applying a second coat of cement using 2.75 kg/ sqm of cement admixed with water proofing bound conforming to IS: 2645 and approved by Engineering. In the surface with 20 mm thick jointless cement mortar 1:4 (1 cement: 4 coarse sand) admixed with water proofing bound conforming to IS: 2645 and approved by Engineeringe including laying glass fibre cloth of approved quality layer of plaster and finally finishing the surface with trowel eat cement slurry and making pattern of 300x300 mm to 3 mm deep. The hole terrace so finished shall be flooded with water for a um period of two weeks for curing and for final test. All to operations to be done in order and as directed and ited by the Engineer-in-Charge: | | |
| | 22.7.1 | With average thickness of 120 mm and minimum thickness at khurra as 65 mm. | sqm | 1034.65 |
| 22.8 | bitumen fe bitumen 8 Kg per sq roofing feli and fourth peasized | and laying four courses water proofing treatment with elt over roofs consisting of first and third courses of blown 5/25 or 90/15 conforming to IS: 702 applied hot @ 1.45 uare metre of area for each course, second course of type 3 grade-I (hessian based self finished bitumen felt) and final course of stone grit 6 mm and down size or gravel spread at 6 cubic decimeter per square metre, preparation of surface but excluding grading complete | | |
| | 22.8.1 | Bitumen felt (hessian base) type 3 grade I conforming to IS: 1322 | sqm | 312.00 |
| 22.9 | bitumen fe blown bitu 1.45, 1.20 and fourth 1322 (Hes course of s at 6 cubic | and laying six courses water proofing treatment with elt over roofs consisting of first, third and fifth course of men 85/25 or 90/15 conforming to IS: 702 applied hot @ and 1.45 Kg per square metre of area respectively, second courses of roofing felt type 3 grade I conforming to IS: ssian based self finished bitumen felt), sixth and final stone grit 6 mm and down size or pea sized gravel spread decimeter per sqm including preparation of surface but grading, complete. | eam | 493.40 |
| 22.10 | Providing bitumen for blown or / kg per squ of roofing fand final c | and laying six courses water proofing treatment with elt over roofs consisting of first, third and fifth courses of and residual bitumen applied hot at 1.45, 1.20 and 1.70 are metre of area respectively, second and fourth courses felt type 2 grade I (fibre base self finished bitumen felt) six courses of stone grit 6 mm and down size or pea sized ead at 6cu.dm per sqm including preparation of surface, grading, compete. | sqm | 493.40 548.55 |

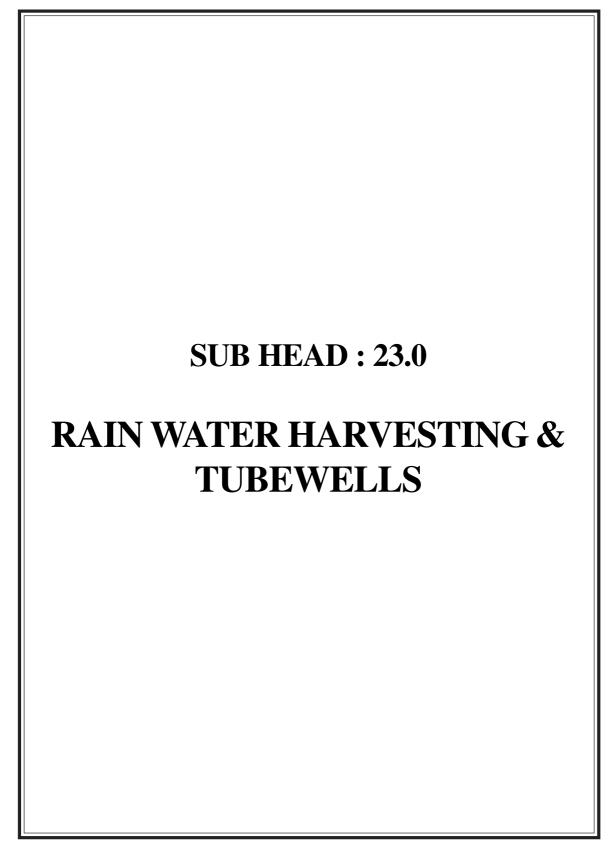
| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|------|-----------|
| 22.11 | Providing and laying six courses water proofing treatment with bitumen felt over roofs consisting of first, third and fifth courses of blown or / and residual bitumen applied hot at 1.45, 1.20 and 1.70 kg per square metre of area respectively, second and fourth courses of roofing felt type 2 grade II (glass fibre base self finished bitumen felt) and sixth and final course of stone grit 6 mm and down size or pea sized gravel spread at 6 cubic decimeter per sqm including preparation of surface but excluding grading, complete. | | sqm | 548.75 |
| 22.12 | • • | bituminous solution primer on roof and / or | sqm | 33.05 |
| 22.13 | | water proofing treatment final course of mm down size or pea sized gravel: | · | |
| | 22.13.1 at 6 cudm p | per sqm | sqm | 11.95 |
| | 22.13.2 at 8 cudm p | per sqm | sqm | 15.10 |
| 22.14 | Grading roof for water p | proofing treatment with | | |
| | | ncrete 1:2:4 (1 cement : 2 coarse sand : one aggregate 20 mm nominal size) | cum | 5583.80 |
| | 22.14.2 Cement mo | ortar 1:3 (1 cement : 3 coarse sand) | cum | 9280.65 |
| | 22.14.3 Cement mo | ortar 1:4 (1cement : 4 coarse sand) | cum | 8404.25 |
| 22.15 | with APP (Atactic poly- over roof consisting of sqm, 2nd, 4th & 6th co which shall consist of ble to IS: 702, 3rd and 5th Polymeric membrane 1 of five layers prefabrica film sandwiched on both mix is protected on both top most layer shall be 10 grouted with cemer with 2% integral water p a 12 mm layer of ceme | situ seven course water proofing treatment propylene) modified Polymeric memberane first coat of bitumen primer @ 0.40 Kg per urses of bonding material @ 1.20 Kg/sqm, pwn type bitumen of grade 85/25 conforming layers of roofing membrane APP modified .5 mm thick of 2.25 Kg/sqm weight consisting ted with centre core as 20 micron HMHDPE in sides with polymeric mix and the polymeric in side with 20 micron HMHDPE film. 7th, the finished with brick tiles of class designation at mortar 1:3 (1 cement: 3 fine sand) mixed proofing compound by weight of cement over nt mortar 1:3 (1 cement: 3 fine sand) and bying brick tiles shall be paid for separately). | sqm | 459.65 |
| 22.16 | APP (Atactic Polypropy roof consisting of first of 2nd & 4th courses of both consist of blown type of 702, 3rd layer of roomembrane 2.0 mm this layers prefabricated with sandwiched on both somix is protected on both top most layer shall be 10 grouted with cement with 2% integral water parts a 12 mm layer of ceme | situ five course water proofing treatment with vlene) modified Polymeric memberane over coat of bitumen primer @ 0.40Kg per sqm, onding material @ 1.20 kg/sqm, which shall be bitumen of grade 85/25 conforming to IS: fing membrane APP modified Polymeric ck of 3.00 Kg/sqm weight consisting of five the centre core as 100 micron HMHDPE film ides with polymeric mix and the polymeric in side with 20 micron HMHDPE film. 5th, the finished with brick tiles of class designation it mortar 1:3 (1 cement: 3 fine sand) mixed proofing compound by weight of cement over not mortar 1:3 (1 cement: 3 fine sand) and bying brick tiles shall be paid for separately). | sqm | 321.50 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 22.17 | Providing and laying in situ seven course water proofing treatment with APP (Atactic Polypropylene) modified Polymeric memberane over roof consisting of first coat of bitumen primer @ 0.40 Kg per sqm, 2nd, 4th & 6th courses of bonding material @ 1.20 kg/sqm, which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, 3rd and 5th layers of roofing membrane APP modified Polymeric membrane 2.0 mm thick of 3.00 Kg/sqm weight consisting of five layers prefabricated with centre core as 100 micron HMHDPE film sandwiched on both sides with polymeric mix and the polymeric mix is protected on both side with 20 micron HMHDPE film. 7th, the top most layer shall be finished with brick tiles of class designation 10 grouted with cement mortar 1:3 (1 cement: 3 fine sand) mixed with 2% integral water proofing compound by weight of cement over a 12 mm layer of cement mortar 1:3 (1 cement: 3 fine sand) and finished neat (item of laying brick tiles shall be paid for separately). | sqm | 518.40 |
| 22.18 | Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrance, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrance manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane. | | |
| | 22.18.1 2mm (for corrugated roof sheets) | sqm | 282.95 |
| 22.19 | Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane: | | |
| | 22.19.1 3 mm thick | sqm | 410.70 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-------|-----------|
| 22.20 | Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/litre and viscocity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane: | | |
| 00.04 | 22.20.1 3 mm thick | sqm | 417.10 |
| 22.21 | Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation. | sqm | 76.65 |
| 22.22 | Providing and mixing integral crystalline admixture for waterproofing treatment to RCC structures like basement raft, retaining walls, reservior, sewage & water treatment plant, tunnels / subway and bridge deck etc. at the time of transporting of concrete into the drum of the ready-mix truck, using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 90%, compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. | kg | 376.40 |
| 22.22A | Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/ system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge. | sqm | 327.55 |
| | respect as per the direction of Engineer-in-ollarge. | əqiii | J21.JJ |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 22.23 | Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservior, sewage & water treatment plant, tunnels/subway and bridge deck etc., prepared by mixing in the ratio of 5:2 (5 parts integral crystalline slurry: 2 parts water) for vertical surfaces and 3:1 (3 parts integral crystalline slurry: 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guaranteed for 10 years against any leakage. | | |
| | 22.23.1 For vertical surface two coats @0.70 kg per sqm per coat | sqm. | 468.10 |
| | 22.23.2 For horizontal surface one coat @1.10 kg per sqm. | sqm. | 362.35 |
| 22.23A | Providing & Applying polymer modified, flexible cementatious negative side waterproofing coating with elastic waterproofing polymers on interior wall plaster surface in three coats @14.35 kg /10 sqm. one coat of self priming of cementatious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementatious waterproofing polymer (dilution with water in the ratio of 3:1) after scrapping and properly cleaning the surface to remove pre-existing paint film & loose particles till plaster is visible, complete in all respect as per the direction of Engineer-in-Charge. | sqm | 368.20 |
| 22.24 | Providing and applying integral crystalline dry shake of hydrophilic in nature for waterproofing treatment to the RCC structures like basement raft, foundation slab, sewage & water treatment plant slab, warehouses floor, parking structures and water tank base slab etc. sprinkled @ 0.60kg per sqm or higher as recommended by the manufacturer's specification over the lean concrete of above cited structures. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e. by reducing permeability of concrete by more than 85%, compared control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline dry-shake shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-incharge. The product performance shall carry guarantee for 10 years against any leakage. | sqm. | 316.15 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-----------|-----------|
| 22.24A | Providing & Applying high quality acrylic modified resin based texture of Dholpur/Red sand stone Pattern with anti algae and UV resistance properties to be applied as intermediate finish in desired pattern @ 43.04 kgs/10 sqm to form film of 1-1.5 mm thickness after scrapping and properly cleaning the surface to remove loose particles from the plaster surface, followed by top coating with Premium Acrylic Smooth exterior paint with Silicone additives of required shade by two or more coats @ 1.43 litres/10 sqm, complete as the direction of Engineer -in-Charge. | sqm | 391.80 |
| 22.25 | Providing and applying crystalline mortar by mixing in the ratio of 4.5 : 1 (4.5 parts crystalline mortar : 1 part water) for the treatment of faulty construction joints, cracks, tie rod holes and spalled & honeycombed surface of RCC underground structures like basement, water tanks, bridge deck etc. to ensure water tightness. The crystallie mortar shall conform to the EN 1504-3 having compressive strength Class R4 \geq 45 MPa and adhesive bond strength Class R3 \geq 1.5 MPa. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. | | |
| | 22.25.1 For sealing cracks and faulty construction joints, by preparing the surface, making U-shape groove size of 25x25mm and then priming the surface with integral crystalline slurry @0.05kg per running meter and while the surface is tacky then filling the groove upto top edge with crystalline mortar @1.50kg per running meter. Once crystalline mortar is touch dry then finally applying two coats of integral crystalline slurry @0.05kg per running meter per coat on treated surface. | metre | 514.00 |
| | 22.25.2 For patching of tie rod holes, preparing tie rod hole surface and then priming the area with integral crystalline slurry @0.070kg per sqm and while the surface is tacky, repairing and then filling the tie rod holes with crystalline mortar @0.040kg per hole. The crystalline mortar shall be tightly rodded into tie rod holes or packed tightly (For 25x25x25 mm tie rod hole, use 0.040 kg to fill the hole) | each hole | 18.45 |
| 22.26 | Providing and applying of swellable type water stop tape, 19mm x 25mm thick in linear meter (expansive nature) for construction joints treatment of RCC structure, such as raft slab, retaining walls, water storage tank and at the junctions of raft slab with the retaining walls etc After cleaning the surface, one coat of required primer for swellable water stop tape shall be applied throughout the length of the joint @3.78 litre per 240 running meter. Over the primed surface swellable type water stop tape shall be placed. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry | | |
| | guaranteed for 10 years against any leakage. | metre | 538.90 |



BASIC RATES (SH: 23.0 RAIN WATER HARVESTING & TUBEWELLS)

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-----------|-----------|
| 0005 | Hire charges of Diesel Truck - 9 tonne | day | 2000.00 |
| 0020 | Hydraulic Excavator (3D) with driver and fuel | day | 6500.00 |
| 0040 | Air compressor 250 cfm with two leads for pneumatic cutters / hammers | day | 1500.00 |
| 0103 | Blacksmith 2nd class | day | 448.00 |
| 0113 | Chowkidar | day | 368.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0123 | Mason (Brick layer) first class | day | 487.00 |
| 0124 | Mason (Brick layer) 2nd class | day | 448.00 |
| 0130 | Mistry | day | 487.00 |
| 0134 | Rock Hole Driller | day | 368.00 |
| 1235 | Diesel | litre | 46.55 |
| 2321 | Carriage of Spun iron S & S pipes 150 mm dia | 100 metre | 378.03 |
| 2322 | Carriage of Spun iron S & S pipes 200 mm dia | 100 metre | 614.93 |
| 2343 | Carriage of Ductile Iron pipes (k7) 100 mm dia | 100 metre | 226.82 |
| 2344 | Carriage of Cast iron pipes 150 mm dia | 100 metre | 378.03 |
| 2345 | Carriage of Cast iron pipes 200 mm dia | 100 metre | 614.93 |
| 7743 | M.S. pipe 150 mm dia casing pipe | metre | 450.00 |
| 7744 | M.S. pipe 200 mm dia casing pipe | metre | 1200.00 |
| 7745 | PVC blind pipe 150 mm dia as per IS: 12818 | metre | 487.00 |
| 7746 | PVC blind pipe 200 mm dia as per IS: 12818 | metre | 519.00 |
| 7747 | M.S. cap 150 mm dia | each | 150.00 |
| 7748 | M.S. cap 200 mm dia | each | 190.00 |
| 7749 | M.S bail plug 150 mm dia | each | 190.00 |
| 7750 | M.S bail plug 200 mm dia | each | 210.00 |
| 7751 | PVC slotted pipe 150 mm dia as per IS: 12818 | metre | 450.00 |
| 7752 | PVC slotted pipe 200 mm dia as per IS: 12818 | metre | 700.00 |
| 7753 | Boulder 50 mm to 200 mm | cum | 700.00 |
| 7754 | Gravel 5 mm to 10 mm | cum | 800.00 |
| 7755 | Gravel 1.5 mm to 2 mm | cum | 800.00 |

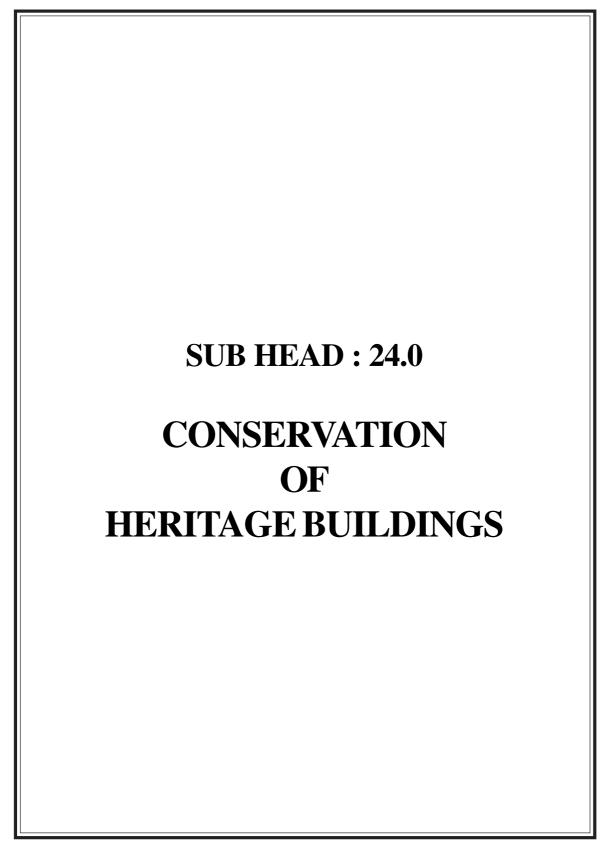
| Code No. | Description | Unit | Rate ₹ |
|-------------|---|-------|-----------|
| 7756 | Gravel 3 mm to 6 mm | cum | 800.00 |
| 7757 | M.S. pipe 100 mm dia casing pipe | metre | 700.00 |
| 7758 | uPVC blind pipe 100 mm dia as per IS: 12818 | metre | 244.00 |
| 7759 | uPVC slotted pipe 100 mm dia as per IS: 12818 | metre | 380.00 |
| 7760 | M.S. cap 100 mm dia | each | 120.00 |
| 7761 | M.S. bail plug 100 mm dia | each | 150.00 |
| 7762 | Precast R.C.C. perforated slab | each | 800.00 |
| 7763 | Water supply by tanker of 5000 litre capacity | each | 750.00 |
| 7764 | M.S. socket 100 mm dia | each | 120.00 |
| 7765 | M.S. socket 150 mm dia | each | 210.00 |
| 7766 | M.S. socket 200 mm dia | each | 270.00 |
| 7772 | Pea Gravel | cum | 900.00 |
| 9988 | Carriage and sundries | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |

23.0 RAIN WATER HARVESTING & TUBEWELLS

| Code No. | | | Description | Unit | Rate ₹ |
|-------------|---|--|--|-------|-----------|
| 23.1 | suitable samples bore log plants & | method presc from different , including hire machineries re | Il of required dia for casing/ strainer pipe, by ribed in IS: 2800 (part I), including collecting strata, preparing and submitting strata chart/ & running charges of all equipments, tools, quired for the job, all complete as per direction upto 90 metre depth below ground level. | | |
| | 23.1.1 | All types o | fsoil | | |
| | | 23.1.1.1 | 300 mm dia | metre | 370.70 |
| | | 23.1.1.2 | 350 mm dia | metre | 405.45 |
| | | 23.1.1.3 | 400 mm dia | metre | 518.95 |
| | 23.1.2 | Rocky stra | ta including Boulders | | |
| | | 23.1.2.1 | 300 mm dia | metre | 855.10 |
| | | 23.1.2.2 | 350 mm dia | metre | 895.25 |
| | | 23.1.2.3 | 400 mm dia | metre | 1034.50 |
| | samples bore log plants & of Engin | from different , including hire machineries re | ribed in IS: 2800 (part I), including collecting strata, preparing and submitting strata chart/ & running charges of all equipments, tools, quired for the job, all complete as per direction b, beyond 90 metre & upto 150 metre depth | | |
| | 23.2.1 | All types of s | soil | | |
| | | 23.2.1.1 | 300 mm dia | metre | 432.45 |
| | | 23.2.1.2 | 350 mm dia | metre | 480.50 |
| | | 23.2.1.3 | 400 mm dia | metre | 648.70 |
| | 23.2.2 | Rocky stra | ta including Boulders | | |
| | | 23.2.2.1 | 300 mm dia | metre | 927.10 |
| | | 23.2.2.2 | 350 mm dia | metre | 962.20 |
| | | 23.2.2.3 | 400 mm dia | metre | 1218.55 |
| 23.3 | well, unp dia, con charges | plasticized PV0 forming to IS: | lowering and fixing in vertical position in bore C medium well casing (CM) pipe of required 12818, including required hire and labour essories etc. all complete, for all depths, as er-in-charge. | | |
| | 23.3.1 | 100 mm no | ominal size dia | metre | 289.85 |
| | 23.3.2 | 150 mm no | ominal size dia | metre | 572.30 |
| | 23.3.3 | 200 mm no | ominal size dia | metre | 610.65 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|--|-------|-----------|
| 23.4 | well unpla | I, assembling, lowering and fixing in vertical position in bore asticized PVC medium well screen (RMS) pipes with ribs, ag to IS: 12818, including hire & labour charges, fittings & es etc. all complete, for all depths, as per direction of in-charge. | | |
| | 23.4.1 | 100 mm nominal size dia | metre | 448.05 |
| | 23.4.2 | 150 mm nominal size dia | metre | 529.35 |
| | 23.4.3 | 200 mm nominal size dia | metre | 821.15 |
| 23.5 | 5 cm to 20 | g, filling, spreading & leveling stone boulders of size range 0 cm, in recharge pit, in the required thickness, for all leads complete as per direction of Engineer-in-charge. | cum | 921.90 |
| 23.6 | 10 mm, ir required t | I, filling, spreading & leveling gravels of size range 5 mm to the recharge pit, over the existing layer of boulders, in hickness, for all leads & lifts, all complete as per direction er-in-charge. | cum | 1038.05 |
| 23.7 | mm to 2 m | n, filling, spreading & leveling coarse sand of size range 1.5 nm in recharge pit, in required thickness over gravel layer, ds & lifts, all complete as per direction of Engineer -in- | cum | 1038.05 |
| 23.8 | Gravel pa | cking in tubewell construction in accordance with IS: 4097, providing gravel fine/ medium/ coarse, in required grading a per actual requirement, all complete as per direction of in-charge. | cum | 1175.60 |
| 23.9 | having cor mm, reinf sectional 7 @ 100 to | and fixing factory made precast RCC perforated drain covers, nerete of strength not less than M-25, of size 1000 x 450x50 orced with 8 mm dia four nos longitudinal & 9 nos cross r.M.T. hoop bars, including providing 50 mm dia perforations 125 mm c/c, including providing edge binding with M.S. e 50 mm x 1.6 mm complete, all as per direction of Engineer- | each | 959.35 |
| 23.10 | well, ERW and socke to IS: 427 outside so brand and fittings & a | I, assembling, lowering and fixing in vertical position in bore of (Electric Resistance Welded) FE 410 mild steel screwed eted/plain ended casing pipes of required dia, conforming 70, of reputed & approved make, including painted with surface with two coats of anticorrosive paint of approved diamanufacture, including required hire & labour charges, accessories, all complete, for all depths, as per direction er-in-charge. | | |
| | 23.10.1 | 100 mm nominal size dia having minimum wall thickness 5.00 mm | metre | 890.10 |
| | 23.10.2 | 150 mm nominal size dia having minimum wall thickness 5.00 mm | metre | 1210.60 |
| | 23.10.3 | 200 mm nominal size dia having minimum wall thickness 5.40 mm | metre | 1525.90 |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|-------|-----------|
| 23.11 | well, ERW slot of siz bevel end reputed a 5.40 mm, anticorros including | I, assembling, lowering and fixing in vertical position in bore I/ (Electric Resistance Welded) FE 410 plain slotted (having the 1.6/3.2 mm) mild steel threaded and socketed/ plain led pipe (type A) of required dia, conforming to IS: 8110, of and approved make, having wall thickness not less than including painted with outside surface with two coats of sive bitumestic paint of approved brand and manufacture, thire & labour charges, fittings & accessories, all complete, ths, as per direction of Engineer -in-charge. | | |
| | 23.11.1 | 100 mm nominal size dia | metre | 950.75 |
| | 23.11.2 | 150 mm nominal size dia | metre | 1291.50 |
| | 23.11.3 | 200 mm nominal size dia | metre | 1607.50 |
| 23.12 | 11189, to content (compress developed approved draw dow approved hire & lab | nent of tube well in accordance with IS: 2800 (part I) and IS: establish maximum rate of usable water yield without sand beyond permissible limit), with required capacity air sor, running the compressor for required time till well is fully d, measuring yield of well by "V" notch method or any other method, measuring static level & draw down etc. by step on method, collecting water samples & getting tested in laboratory, i/c disinfection of tubewell, all complete, including our charges of air compressor, tools & accessories etc., requirement and direction of Engineer-in-charge. | hour | 542.20 |
| 23.13 | welded pla | and fixing suitable size threaded mild steel cap or spot ate to the top of bore well housing/ casing pipe, removable juirement, all complete for borewell of: | | |
| | 23.13.1 | 100 mm dia | each | 146.35 |
| | 23.13.2 | 150 mm dia | each | 182.95 |
| | 23.13.3 | 200 mm dia | each | 231.75 |
| 23.14 | housing p | and fixing M.S. clamp of required dia to the top of casing/ ipe of tubewell as per IS: 2800 (part I), including necessary its of required size complete. | | |
| | 23.14.1 | 100 mm clamp | each | 962.05 |
| | 23.14.2 | 150 mm clamp | each | 1017.70 |
| | 23.14.3 | 200 mm clamp | each | 1154.45 |
| 23.15 | | and fixing Bail plug/ Bottom plug of required dia to the pipe assembly of tubewell as per IS:2800 (part I). | | |
| | 23.15.1 | 100 mm dia | each | 184.30 |
| | 23.15.2 | 150 mm dia | each | 230.75 |
| | 23.15.3 | 200 mm dia | each | 253.95 |
| | | | | |



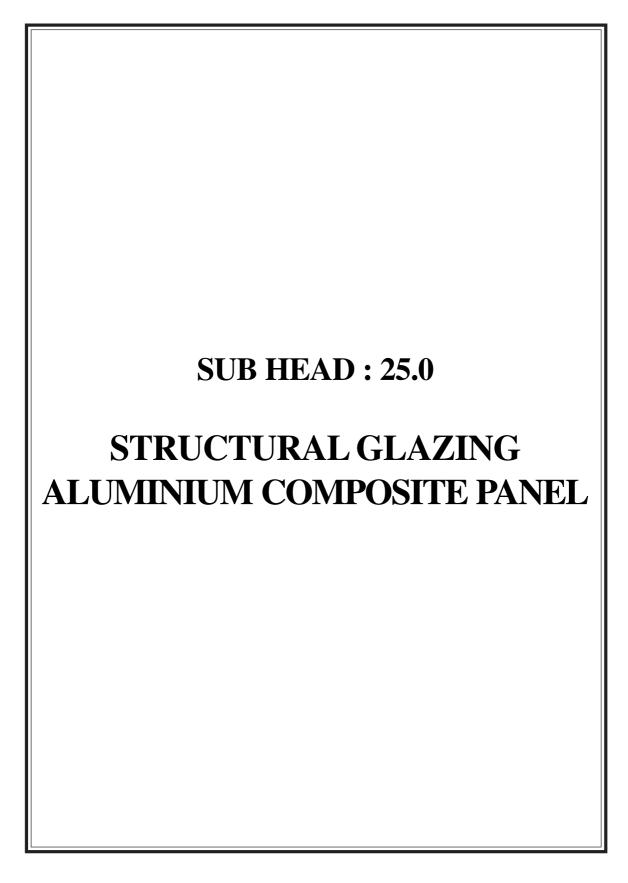
BASIC RATES (SH: 24.0 CONSERVATION OF HERITAGE BUILDINGS)

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|---------|-----------|
| 0101 | Bhisti | day | 407.00 |
| 0103 | Blacksmith 2nd class | day | 448.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0116 | Fitter (grade 1) | day | 487.00 |
| 0124 | Mason (Brick layer) 2 nd class | day | 448.00 |
| 0128 | Mate | day | 407.00 |
| 0131 | Painter | day | 448.00 |
| 0155 | Mason (average) | day | 467.00 |
| 0159 | Skilled torch operator for laying tack | day | 487.00 |
| 0773 | Unslaked lime | quintal | 270.00 |
| 1034 | Bolts and nuts up to 300 mm in length | quintal | 5100.00 |
| 1182 | Surki | cum | 700.00 |
| 2205 | Carriage of Steel | tonne | 92.24 |
| 4009 | Mild steel tubes hot finished welded type | kg | 42.00 |
| 6501 | Sand zone V (Jamuna) | cum | 600.00 |
| 7346 | Double coupler | each | 48.00 |
| 7387 | Spigot for standard jointing | kg | 45.00 |
| 7397 | Base Jack | each | 150.00 |
| 7398 | Challies | each | 800.00 |
| 7399 | Cup locks | each | 50.00 |
| 7767 | Stone cleaning chemical approved by ASI | litre | 165.00 |
| 7768 | Water repellent chemical approved by ASI | litre | 650.00 |
| 7769 | Stone surface strengthening chemical approved by ASI | litre | 1020.00 |
| 7770 | Turpentine oil | litre | 55.00 |
| 7771 | Liquid Amonia 5% | litre | 161.00 |
| 7775 | Sodium pentachlorophenate | kg | 630.00 |
| 9999 | Sundries | L.S. | 1.73 |
| | | | |

24.0 CONSERVATION OF HERITAGE BUILDINGS

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|------|-----------|
| 24.1 | Raking out joints of stone masonry surface to the required width and depth, with due care and precaution, by mechanical / manual means, including preparing and cleaning the surface for re-pointing/refilling of joints, including disposal of rubbish to the dumping ground within 50 metre lead. | sqm | 29.65 |
| 24.2 | Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge. | | |
| | Note:- (1) The elevational area of the scaffolding shall be measured for payment purpose.(2) The payment will be made once only for execution of all items for such works. | sqm | 160.10 |
| 24.3 | Cleaning the sand stone surface and removing dirt, dust, bird dropping, grease, oil, algae, fungus, monkey beats, vegetable growth etc., including providing, applying and washing the surface with liquid Ammonia Chemical of 5% solution and other chemical cleaning agent as approved by Archaeological Survey of India/ Engineer-incharge, of approved brand and manufacturer, with the help of required scrubbers and also cleaning with machine operated water jet mixed with desired quantity of fine silica where ever required, without causing any scratching/ damage to the stone surface and finally washing the surface with clean water with the help of pressure jet machine, complete in all respect, including taking all precautions to safeguard ventilators, windows, doors etc. by suitable covering so as to avoid any damage to the building/ structure, all as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding). | sqm | 90.70 |
| 24.4 | Providing and applying antifungal wash treatment using 3% solution of sodium pentachlorophenate, of reputed brand and manufacturer, on cleaned sand stone surface at desired locations as per direction of Engineer-in-charge (The rate is inclusive of all materials & labours involved except scaffolding). | sqm | 36.90 |
| 24.5 | Ruled / Flush pointing on Red sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime: 1.5 surkhi (50% red and 50% light yellow surkhi): 1/2 marble dust}. (The rate is inclusive of all materials & labours involved except | • | |
| | scaffolding). | sqm | 159.70 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|------|-----------|
| 24.6 | Ruled/ Flush pointing on White sand stone masonry surface with lime, surkhi and marble dust mortar in the ratio of 1:1.5:1/2 {One lime: 1.5 surkhi (15% dark red and 85% light yellow surkhi): 1/2 marble dust}. (The rate is inclusive of all materials & labours involved except scaffolding). | sqm | 159.70 |
| 24.7 | Applying two or more coat of Ethyl Silicate chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacturer, with brush or spray on the existing stone masonry surface till there is no further absorption of chemical by stone surface, including protecting the applied surface from direct sunlight by suitable means during application, all complete as per direction of the Engineer-in-Charge (The rate is inclusive of all materials & labours involved except scaffolding). | sqm | 267.80 |
| 24.8 | Applying breathable, non-reactive, antifungal, and water repellant Silane/Siloxane chemical as approved by Archaeological Survey of India/Engineer-in-charge, of approved brand and manufacture, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical:12 Part of Turpentine oil), on the existing sand stone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per direction of Engineer-In-charge (The rate is inclusive of all materials & labours involved except scaffolding). | sqm | 55.15 |



BASIC RATES (SH: 25.0 STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-----------|-----------|
| 2605 | Structural sealant - 6 x 12 mm | metre | 30.00 |
| 2606 | Spacer tape 6.4 mm thick x 6 mm wide | metre | 20.00 |
| 2607 | Weather Sealant - Non Staining (600 ml) | each | 420.00 |
| 2608 | Weather Sealant - Normal (300 ml) | each | 125.00 |
| 2609 | MS Brackets/Aluminium Alloy Brackets | kg | 100.00 |
| 2610 | Silicon Gasket in Kg (Above 50 g / m) | kg | 570.00 |
| 2611 | EPDM Gasket in Kg (Above 60 g / m) | kg | 150.00 |
| 2612 | Anchor Fastner - M10 | each | 10.00 |
| 2613 | SS Bolt with washer of different sizes for structural glazing / ACP Cladding | each | 35.00 |
| 2614 | SS Screws of sizes for structural glazing / ACP Cladding | each | 4.00 |
| 2615 | Protective Tape | metre | 20.00 |
| 2616 | GI flashing - 1.2 mm thick | kg | 58.00 |
| 2617 | 6 mm thick high performance glass | sqm | 1850.00 |
| 2618 | 6 mm thick clear heat strengthened glass | sqm | 640.00 |
| 2619 | 6 mm thick clear heat strengthened glass | each | 128.00 |
| 2620 | ARMS GS HD - Top Hung -20"- Type P- Couple | pair | 1550.00 |
| 2621 | Connection Block for vision glass panel | each | 39.00 |
| 2622 | Curtain wall striker for vision glass panel | each | 100.00 |
| 2623 | Adjustable fastening pawl for vision glass panel | each | 38.00 |
| 2624 | Corner drive for vision glass panel | each | 295.00 |
| 2625 | Top wedge block for vision glass panel | each | 135.00 |
| 2626 | Glass wool of denisity @ 48 Kg / cum with black glass tissue (BGT) | sqm | 230.00 |
| 2627 | SS Screws - # 8 x 19 | each | 10.00 |
| 2628 | Weather Sealant - DC 789 | cartridge | 130.00 |
| 2629 | Cement Board | sqm | 250.00 |
| 2630 | Baker rod | metre | 5.00 |
| 2631 | 4 mm thick ACP | sqm | 1000.00 |
| 2632 | Fire Stop | metre | 550.00 |
| 2634 | GI/Aluminium Sheet (0.8 mm thick) | kg | 45.00 |
| 7306 | Aluminium T or L sections | kg | 200.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-------|-----------|
| 7392 | Powder coating 50 microns on aluminium sections | kg | 64.00 |
| 8654 | Masking tape | metre | 2.30 |
| 8945 | 4 Point facade glass bracket without flat head bolts | each | 3318.00 |
| 8946 | 2 Point facade glass bracket (wall mounted without flat head bolt) | each | 1659.00 |
| 8947 | 1 Point facade glass bracket (wall mounted without flat head bolt) | each | 1300.00 |
| 8948 | Flate head bolt for brackets of spider glazing | each | 651.00 |
| 8949 | 400 mm long fin plate without fastners | pair | 5931.00 |
| 9999 | Sundries | L.S. | 1.73 |

25.0 STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 25.1 | Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474,including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). | kg | 338.25 |
| 25.2 | Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including: (a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including: (b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimentional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon seperator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers. (c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass. (d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal | | 300.20 |

Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, dully approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer- in-Charge.

Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this subhead. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places.

Note:- 2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accreditated by NABL(National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. Cost of testing is payable separately. The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NBL Certified laboratories

- (1) Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr
- (2) Static Water Penetration Test. (50pa to 1500pa) as per ASTME- 331-09 testing method for a range up to 2000 ml.

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| | (3) Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml | | |
| | (4) Structural Performance Deflection and deformation by static air pressure test (1.5 times desing wind pressure without any failure) as per ASTME-330-10 testing method for a range upto 50 mm | | |
| | (5) Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test. Tests to be conducted on site. | | |
| | (6) Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml | sqm | 2409.90 |
| 25.3 | Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12-6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthned clear float glass 6mm thick, spacer tube 12mm wide, dessicants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.26.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm." (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat | | |
| | Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement. | sqm | 3730.70 |
| 25.4 | Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardwares for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4 -point cremone locking sets with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per | • | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 25.5 | Providing, fabricating and supplying shadow box of required size and shape, for fixing in the spandrel portion of the structural glazing, in linear as well as curvilinear portions of the building by providing semi -rigid, inorganic, non-combustible fibre glass wool insulation 50 mm thick, conforming to IS: 8183 and BS: 3958 Part 5. The insulation layer shall have facing (factory bonded on surface # 10f the fibre glass insulation layer), of black non-woven fibre glass tissue of nominal thickness 0.5 mm and nominal mass not less than 60 gm / sqm, made of randomly oriented glass fibres distributed in a binder by a wet-lay process including fixing 1.5 mm thick solid aluminum sheet backing using, 6 mm thick cement board including SS rivets, nuts, bolts, washers etc complete. | sqm | 1542.60 |
| 25.6 | Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. ,all complete for the required performances as specified, as per the Architectural drawings, as per the approved shop drawings, as specified, and as directed by the Engineer-in-Charge. "For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevent Item*). (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20%, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m² K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement. | sqm | 2798.70 |
| 25.7 | Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including: (a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. (b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metalic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. | | |

(c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places."

sqm 3405.90

Design supply & installation of suspended Spider Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/ beams by means of SS-316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof.

25.8

The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured.

sqm 6928.55



BASIC RATES (SH: 26.0 NEW TECHNOLOGIES AND MATERIALS)

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|------|-----------|
| 0009 | Pumping charges of concrete including Hire charges of pump, | | |
| | piping work & accessories etc. | cum | 200.00 |
| 0011 | Hire charges of Pump set of capacity 4000 litres/hour | day | 650.00 |
| 0012 | Vibrator (Needle type 40 mm) | day | 350.00 |
| 0014 | Front end loader capacity 1.00 cum | day | 6000.00 |
| 0086 | Compressor, gun, rubber pipes & other accessories- hire charge of plant & machinery i/c necessary fuel | day | 4000.00 |
| 0088 | Hire charges of Drill machine upto 30 mm dia | day | 150.00 |
| 0089 | Hire charges of sand blasting equipment | day | 400.00 |
| 0090 | Hire charges of compressor | day | 600.00 |
| 0091 | Welding charges of shear key to existing reinforcement | each | 2.00 |
| 0092 | Hire charges of plant and Machinery that can inject 350 kg/day | day | 100.00 |
| 0100 | Bandhani | day | 407.00 |
| 0101 | Bhisti | day | 407.00 |
| 0102 | Blacksmith 1st class | day | 487.00 |
| 0103 | Blacksmith 2nd class | day | 448.00 |
| 0111 | Carpenter 1st class | day | 487.00 |
| 0112 | Carpenter 2nd class | day | 448.00 |
| 0113 | Chowkidar | day | 368.00 |
| 0114 | Beldar | day | 368.00 |
| 0115 | Coolie | day | 368.00 |
| 0116 | Fitter (grade 1) | day | 487.00 |
| 0117 | Assistant Fitter or 2nd class Fitter | day | 448.00 |
| 0119 | Glazier | day | 448.00 |
| 0122 | Mason (for plaster of paris work) 1st class | day | 487.00 |
| 0123 | Mason (brick layer) 1st class | day | 487.00 |
| 0124 | Mason (brick layer) 2nd class | day | 448.00 |
| 0125 | Mason (for plain stone work) 2nd class | day | 448.00 |
| 0126 | Mason (for ornamental stone work) 1st class | day | 487.00 |
| 0127 | Driver (for Road Roller, Concrete Mixer, Truck etc.) | day | 487.00 |
| 0128 | Mate | day | 407.00 |
| 0129 | Sewerman | day | 390.00 |
| 0130 | Mistry | day | 487.00 |
| 0131 | Painter | day | 448.00 |
| 0132 | Rock Excavator | day | 368.00 |
| 0133 | Rock Breaker | day | 368.00 |
| 0134 | Rock Hole Driller | day | 368.00 |
| 0135 | Stone Chiseller | day | 407.00 |

SUB HEAD: 26.0 NEW TECHNOLOGIES AND MATERIALS

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|---------|-----------|
| 0138 | Sprayer (for bitumen, tar etc.) | day | 407.00 |
| 0139 | Skilled Beldar (for floor rubbing etc.) | day | 407.00 |
| 0141 | White Washer | day | 407.00 |
| 0154 | Nozzel man/ gun man | day | 487.00 |
| 0155 | Mason (average) | day | 467.00 |
| 0156 | Carpenter (average) | day | 467.00 |
| 0157 | Operator (Pile/ Special machine) | day | 487.00 |
| 0159 | Skilled torch operator for laying tack | day | 487.00 |
| 0160 | Technician | day | 775.00 |
| 0161 | Helper (Technician) | day | 368.00 |
| 0164 | Security guard without gun (8 hours shift duty per day) | day | 407.00 |
| 0165 | Security guard with gun (8 hours shift duty per day) | day | 448.00 |
| 0238 | 6 mm thick heavy duty fiber cement board | sqm | 440.00 |
| 0239 | 8mm thick heavy duty fiber cement board | sqm | 322.00 |
| 0240 | 9 mm thick heavy duty fiber cement board | sqm | 659.00 |
| 0241 | 12.5 mm thick Gypsum plaster board | sqm | 160.00 |
| 0367 | Portland Cement (OPC-43 grade) | tonne | 5700.00 |
| 0764 | Calcium silicate base compound for jointing calcium silicate tiles | kg | 25.00 |
| 0982 | Coarse sand (zone III) | cum | 1200.00 |
| 1021 | Hard drawn steel wire fabric size 75 X 25 mm mesh of weight not less than $7.75\ kg/sq.m$ | sqm | 400.00 |
| 1023 | Galvanised steel J or L hooks 8 mm dia | 10 Nos | 115.00 |
| 1190 | Second class teak wood in planks | 10 cudm | 675.00 |
| 1208 | Bitumen washer | 100 Nos | 30.00 |
| 1209 | G.I. plain washer thick | 100 Nos | 35.00 |
| 1246 | Silicon based Joint Sealant for Tiles | kg | 150.00 |
| 1247 | Rubber base Adhesive | kg | 160.00 |
| 1248 | Epoxy based sealing Compound | kg | 502.00 |
| 1249 | Acrylic based sealing compound | kg | 481.00 |
| 1250 | Non woven reinforcement Tape | metre | 0.14 |
| 2491 | Pre laminated both side solid foam uPVC profile (45x20mm) (Accuplist/Accucel/Sintex or equivalent) | metre | 125.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|-----------|-----------|
| 2492 | Solid foam uPVC sheet 20mm thick pre laminated on both side (Accuplist/Accucel/Sintex) | sqm | 2075.00 |
| 2493 | PVC edge beading | metre | 30.00 |
| 2494 | Expandable fastner with plastic sleeve | each | 5.00 |
| 2635 | GI Screws of gauge 10, length 25 mm for fixing cement fibre board to C section | each | 2.75 |
| 2636 | GI Screws of gauge 10, length 45 mm for fixing cement fibre board to C section | each | 3.00 |
| 2637 | Vapour barrier | sqm | 170.00 |
| 7009 | 12.5 mm thick tapered edge gypsum plain borad | sqm | 160.00 |
| 7025 | self tapping pan head nickle coated mild steel screws of size 13 x 3.2 mm $$ | 1000 Nos | 550.00 |
| 7026 | Fibre joint tape 50 mm wide (90 metre) roll | each roll | 170.00 |
| 7274 | Glass wool 50 mm thick | sqm | 250.00 |
| 7367 | Galvanised M.S. sheet 0.5 mm thick pressed channel section of size 50x32 mm | metre | 60.00 |
| 7369 | Galvanised M.S. sheet 0.50 mm thick pressed stud: 48x34x36 mm | metre | 75.00 |
| 7383 | 12 mm dia 50 mm long wedge type expanded zinc alloy dash fastner | each | 7.00 |
| 7388 | Dash hold fastener 12.5 mm dia, 50 mm long with 6 mm dia bolt | each | 12.00 |
| 7911 | Chemical Rust Remover | litre | 200.00 |
| 7912 | Hire charges of Drill machine upto 30 mm dia | day | 150.00 |
| 7913 | Ероху | kg | 550.00 |
| 7914 | SBR Polymer | kg | 180.00 |
| 7915 | Wooven PVC cloth | sqm | 25.00 |
| 7916 | Hire charges of sand blasting equipment | day | 400.00 |
| 7917 | Hire charges of compressure | day | 600.00 |
| 7918 | 25mm thick cement concrete shotcrete(gunting) with compressor | sqm | 100.00 |
| 7921 | Adhesive chemical | ml | 2.36 |
| 7922 | Bit of drilling machine for Hole upto 30mm dia | each | 475.00 |
| 7923 | GI injection nipple 12mm dia, 75mm long | each | 40.00 |
| 7924 | Blowing compressed air for cleaning holes upto 30mm dia | each | 10.00 |
| 7925 | L shaped 100mm long, 10mm dia mild steel shear key | kg | 67.10 |
| 7927 | Acrylic Polymer chemical for cracks | kg | 30.00 |
| 8013 | Factory made EPS Core wallpanel /roof panel sandwiched between two Engineered welded wire fabric mesh of 3 mm dia G.I. wire mesh, with 50 mm pitch in both the directions, kept at 120-135 mm gap and interconnected by the zig zag G.I. wire of 3 mm dia at alternate row | | 1050.00 |
| | by welding. | sqm | 1650.00 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|---------|-----------|
| 8015 | Expanded poly ethylene Foam sheet 4mm thick of Density 40kg/m3 | sqm | 18.00 |
| 8016 | High Density expanded poly ethylene (EPE) Foam 1mm thick | sqm | 850.00 |
| 8021 | Bamboo wood Tile Flooring 14mm thick of minimum size 1800mm x 130mm | sqm | 3775.00 |
| 8022 | Bamboo wood Quarter Round 18mm thick of size 1900mm x 18mm | metre | 125.00 |
| 8023 | Bamboo wood door reducer 14mm thick of size 1900mm x 44mm | metre | 275.00 |
| 8024 | Bamboo wood Skirting 14mm thick of Size 1900mm x 85mm | sqm | 325.00 |
| 8025 | Bamboo wood Tile Wall Cladding 10mm thick of size 1900mm x 135mm | sqm | 3375.00 |
| 8026 | Bamboo wood T-mold 14mm thick of size 1900mm x 44mm | metre | 275.00 |
| 8027 | Bamboo wood Threshold 14mm thick of size 1900mm x 44mm | metre | 275.00 |
| 8028 | Bamboo wood shutter of doors | 10 cudm | 1800.00 |
| 8029 | Bamboo wood panelling (10mm thick) | 10 cudm | 1800.00 |
| 8030 | Superior class Bamboo wood door frame 65 mm thick, | 10 cudm | 1800.00 |
| 8031 | Aluminium sheets Grade 5052, 4 mm thick for wall panel/deck panel/WRB panel/Kicker Panels/door closing panels | sqm | 8500.00 |
| 8032 | Aluminium sheets Grade 5052, 4 mm thick for Internal Corner/ Column Corners/ | sqm | 11500.00 |
| 8033 | Aluminium sheets Grade 5052, 4 mm thick for Mid Soldier/ End soldier | sqm | 32000.00 |
| 8034 | External Corner 2050 mm | each | 1400.00 |
| 8035 | External Corner 825 mm | each | 565.00 |
| 8036 | Soldier Tie 370 mm | each | 274.00 |
| 8037 | Adjustable Prop - 2.00 x 2.00m | each | 1080.00 |
| 8038 | Pin-50 | each | 15.00 |
| 8039 | Pin-127 | each | 52.00 |
| 8040 | Wedge | each | 14.00 |
| 8041 | Wall Tie - 150 (355)mm | each | 45.00 |
| 8042 | Polythene Sleeve 90 x 150mm | each | 3.00 |
| 8043 | Polythene Roll - 150mm Long. | each | 6.00 |
| 8044 | Vertical Soldier -1100mm | each | 351.00 |
| 8045 | Wall Attached Bracket 600x1000mm | each | 936.00 |
| 8046 | Allignment Pipe - 3.00 Mtr. | each | 960.00 |
| 8047 | Allignment Bracket | each | 450.00 |
| 8048 | Tie Rod for Bracket - 500mm | each | 108.00 |
| 8049 | Anchor Wing Nut Ø100 mm | each | 60.00 |
| 8050 | Debit Pin - 250mm | each | 56.00 |

| Code No. | · · | | Rate ₹ | |
|-------------|---|---------|-----------|--|
| 8051 | PVC Pipe Ø20mm - 150mm long | each | 5.00 | |
| 8052 | PVC Cone | each | 5.00 | |
| 8053 | Bolt+Nut - 16 x 80 mm | each | 30.00 | |
| 8054 | Flat Washer Ø16, 3mm thik | each | 5.00 | |
| 8055 | Bolt+Nut - 16 x 30 mm | each | 18.00 | |
| 8056 | Door Spacer 45x45x5 -1135mm Long | each | 340.00 | |
| 8057 | Door Spacer 45x45x5 - 985mm long | each | 295.00 | |
| 8210 | Stainless steel screws 50 mm | 100 Nos | 260.00 | |
| 8211 | Stainless steel screws 40 mm | 100 Nos | 208.00 | |
| 8212 | Stainless steel screws 30 mm | 100 Nos | 180.00 | |
| 8214 | Stainless steel screws 20 mm | 100 Nos | 120.00 | |
| 8215 | Stainless steel butt hinges 125x64x1.9 mm IS: 12817 marked | 10 Nos | 250.00 | |
| 8216 | Stainless steel butt hinges 100x58x1.9 mm IS: 12817 marked | 10 Nos | 230.00 | |
| 8217 | Stainless steel butt hinges 75x47x1.8 mm IS: 12817 marked | 10 Nos | 150.00 | |
| 8218 | Stainless steel butt hinges 50x37x1.5 mm IS: 12817 marked | 10 Nos | 130.00 | |
| 8226 | Concealed zinc coated hinges 19-20 mm thick with mounting plate hettich make(code 1078660) | 10 Nos | 400.00 | |
| 8514 | 40 mm long S.S screws with plastic rawl plugs | each | 38.00 | |
| 8515 | Galavanised MS 8 mm outer diameter M-6 dash fastener 50mm long | each | 1.00 | |
| 8552 | Mineral fibre beveled tegular edged ceiling tiles 595x595 mm, 16 mm thick | sqm | 786.00 | |
| 8553 | Mineral fibre beveled tegular edged ceiling tiles 595x595 mm, 16 mm thick with bioblock, confirming to ISO 5 (class 100) specifications | sqm | 857.00 | |
| 8554 | Mineral fibre beveled tegular edged ceiling tiles 595x595mm, 20 mm thick | sqm | 990.00 | |
| 8555 | G.I. main runner 15X32mm of 3000 mm length, 0.33mm thick | each | 177.00 | |
| 8556 | G.I. cross Tee 15X32mm of 1200mm length 0.33mm thick | each | 73.00 | |
| 8557 | G.I. cross Tee 15X32mm of 600mm length, 0.33 mm thick | each | 34.00 | |
| 8558 | Galvanised Iron hanger rod 6mm dia fully threaded upto 1000mm length | each | 25.00 | |
| 8559 | Stainless steel U Channel of size (50x25x2mm) | metre | 150.00 | |
| 8560 | Non staining water resistant Clear silicon | metre | 61.00 | |
| 8561 | Extruded polystyrene rigid insulation board 50 mm thick | sqm | 500.00 | |
| 8563 | 15 mm thick, light weight, integral densified micro look edged,false ceiling tiles of size 595x595 mm. | sqm | 900.00 | |
| 8564 | 15 mm thick, light weight, fully perforated square/butt edge integral densified, false ceiling tiles of size 595x595 mm. | sqm | 865.00 | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 8565 | Galavanised MS hanger rod 6 mm dia MS fully threaded up to 1000 mm length | each | 25.00 |
| 8566 | Powder coated steel section main-T ceiling sections 15x42x 0.40 mm (3000 mm long) | each | 225.00 |
| 8567 | Galvanized mild steel perimeter wall angle 22x19x0.40 mm (3000 mm long) | each | 110.00 |
| 8568 | Powder coated Galvanised Iron intermediate cross-T section 15x42x0.40 mm (1200 mm long) | each | 90.00 |
| 8569 | Powder coated Galvanized Iron intermediate cross-T section 15x42x0.40mm (600 mm long) | each | 45.00 |
| 8579 | Cold form light gauge Steel C-section of thickness 0.75mm i/c zink coating/sliting etc. | kg | 126.00 |
| 8580 | Scrap value wastage of cold form light gauge steel | kg | 17.00 |
| 8581 | 12 mm thick micro tegular edged semi perforated GRG (Glass Reinforced Gypsum) false celing tiles of Size 595x595 mm | sqm | 624.00 |
| 8582 | 12 mm thick micro tegular edged fully perforated GRG (Glass Reinforced Gypsum) false celing tiles of Size 595x595 mm | sqm | 706.00 |
| 8583 | 10 mm thick square edge fully perforated GRG (Glass Reinforced Gypsum) false celing tiles of Size 595x595 mm | sqm | 706.00 |
| 8584 | Galvanized iron main-T ceiling sections 15x32x0.33 mm (3000 mm long) | each | 189.00 |
| 8585 | Galvanized iron perimeter wall angle 24x24x0.40 mm (3000 mm long) | each | 117.00 |
| 8586 | Galvanized iron intermediate cross-T section 15x32x0.33 mm (1200 mm long) | each | 77.00 |
| 8587 | Galvanized iron intermediate cross-T section 15x32x0.33 mm (600 mm long) | each | 34.00 |
| 8588 | Galvanised MS hanger rod 6mm dia MS fully threaded up to 1000 mm length | each | 25.00 |
| 8589 | Calcium Silicate tegular edged celling tiles 495x495 mm and 15 mm thick on edges | sqm | 860.00 |
| 8590 | Galvanised Steel main Tee ceiling section Size 24x38x0.33 mm (3 metre long) | each | 113.00 |
| 8591 | Galvanised Steel perimeter wall Angle Size $24 \times 24 \times 0.40 \text{ mm}$ (3.00 metre long) | each | 63.00 |
| 8592 | Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (1.2 metre long) | each | 38.00 |
| 8593 | Galvanised Steel intermediate cross T section Size 24 x 25 x 0.33 mm (0.6 metre long) | each | 19.00 |
| 8594 | Galvanised Steel soffit cleat size 25x35x1.60 mm | each | 4.00 |
| 8595 | Wooden screws with plastic rawl plugs 35x8 mm | each | 1.00 |

| Code No. | Description | | Rate ₹ | |
|-------------|--|-------|-----------|--|
| 8596 | Galvanised MS 8mm outer diameter M-6 dash fastener 25mm long | each | 31.00 | |
| 8597 | Gi Metal Tile Clip in Plain Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick | sqm | 650.00 | |
| 8598 | GI Metal Tile Clip in Perforated Beveled edge global white colour tiles of size 600x600 mm and 0.5 mm thick | | 812.00 | |
| 8604 | Spring T-section 24x34x0.45 mm (3.00 meter long) | metre | 180.00 | |
| 8605 | C Wall angle section 20x30x20x0.50 mm (3.00 meter long) | metre | 90.00 | |
| 8606 | Main C Carrier Size 10x38x10x0.70 mm (3.00 meter long) | metre | 110.00 | |
| 8607 | Spring T-connector | each | 5.00 | |
| 8608 | C Carrier Connector | each | 11.00 | |
| 8609 | C Suspension Clip | each | 8.00 | |
| 8610 | Wire Coupling Clip | each | 9.00 | |
| 8611 | Main T ceiling sections 24x38x0.3 mm (3 metre long) | each | 101.00 | |
| 8612 | Perimeter wall angle 24 x 24 x 0.3 mm (3 metre long) | each | 75.00 | |
| 8613 | Intermediate cross T-Section 24x25x0.3 mm (1.2 m long) | each | 34.00 | |
| 8614 | Intermediate cross T-Section 24x25x0.3 mm (0.6 m long) | each | 17.00 | |
| 8615 | Hanger rod 4 mm thick | each | 8.00 | |
| 8616 | Adjustment clip 85x30x0.8 mm | each | 5.00 | |
| 8617 | Soffit cleat (Size 27x37x25x1.60 mm) | each | 4.00 | |
| 8618 | Dash fastener 6 mm dia 50 mm long | each | 8.00 | |
| 8619 | Galavanised MS L-shape level adjuster of size 85x25x2 mm | each | 14.00 | |
| 8784 | 8 mm thick Calcium silicate perforated tiles of size 595 x595 mm | sqm | 690.00 | |
| 8956 | Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 15 kN/m in the longitudinal and transverse direction | sqm | 95.00 | |
| 8957 | Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 20kN/m in the longitudinal and transverse direction | sqm | 109.00 | |
| 8958 | Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 30kN/m in the longitudinal and transverse direction | sqm | 178.00 | |
| 8959 | Bi-Axial Extruded GeoGrids of Minimum Tensile Strength 40kN/m in the longitudinal and transverse direction | sqm | 260.00 | |
| 8960 | Geosynthetic Drainagewith two filtering nonwoven geotextiles having a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven geotextile of minimum thickness of 0.75mm having pores of 150 micron and tensile strength of 8.0 kN/m and having plane flow capacity of 2.1 L / (m.s) at hydraulic gradient of 1.0 $\&$ 20 kPa pressure ,tensile strength of 18 kN/m , with mass per unit area of 740 gsm. | sqm | 504.00 | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|------|-----------|
| 8961 | Geosynthetic Drainage Composite having thermobonding a draining core - HDPE geonet comprises of two sets of parallel overlayed ribs integrally connected to have a rhomboidal shape with a polyethylene film and a nonwoven geotextile having mass per unit area 130 g/m2 and tensile strength of 8.0 kN/m having in plane flow capacity of 0.7 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 13.5 kN/m , with mass per unit area of 830 gsm, | sqm | 600.00 |
| 8962 | Synthetic Geogrid having Ultimate tensile strength- 100 kN/m | sqm | 200.00 |
| 8963 | Synthetic Geogrid Ultimate tensile strength- 150 kN/m | sqm | 220.00 |
| 8964 | Synthetic Geogrid Ultimate tensile strength- 200 kN/m | sqm | 300.00 |
| 8965 | Synthetic Geogrid Ultimate tensile strength- 250 kN/m | sqm | 330.00 |
| 8966 | Synthetic Geogrid Ultimate tensile strength- 300kN/m | sqm | 350.00 |
| 8967 | Synthetic Geogrid Ultimate tensile strength- 350kN/m | sqm | 390.00 |
| 8968 | Synthetic Geogrid Ultimate tensile strength- 400kN/m | sqm | 420.00 |
| 8969 | Synthetic Geogrid Ultimate tensile strength- 500kN/m | sqm | 500.00 |
| 8970 | Synthetic Geogrid Ultimate tensile strength- 600kN/m | sqm | 550.00 |
| 8971 | Synthetic Geogrid Ultimate tensile strength- 700kN/m | sqm | 650.00 |
| 8972 | Synthetic Geogrid Ultimate tensile strength- 800kN/m | sqm | 708.00 |
| 8973 | Synthetic Geogrid Ultimate tensile strength- 900kN/m | sqm | 841.00 |
| 8974 | Synthetic Geogrid Ultimate tensile strength- 1000kN/m | sqm | 950.00 |
| 8975 | Synthetic Geogrid Ultimate tensile strength- 1100kN/m | sqm | 1000.00 |
| 8976 | Synthetic Geogrid Ultimate tensile strength- 1200kN/m | sqm | 1088.00 |
| 8977 | Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676, 0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm. | sqm | 570.00 |
| 8978 | Aluminium profile industrial troughed sheet of Alloy 31500/31000/40800, conforming to IS 1254, IS 737, IS 2676, 0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm. | sqm | 736.00 |
| 9977 | Carriage | L.S. | 1.73 |
| 9988 | Carriage and sundries | L.S. | 1.73 |
| 9999 | Sundries | L.S. | 1.73 |
| | | | |

26.0 NEW TECHNOLOGIES AND MATERIALS

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 26.1 | Providing & fixing in position Phenol bonded Bamboowood flooring with planks of sizes 14mm thick, 1800mm length (minimum) and 130 mm wide(minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The flooring shall be fixed with tongue and groove interlocking system, with underlayment of 4mm thick expanded poly ethylene foam sheets having density 40kg/cum, over prepared surface with necessary quarter round planks of size 1900mm x 18mm and door reducer of size 1900mm x 44mm, wherever required. The bomboowood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of Engineer in-charge. | sqm | 4959.20 |
| 26.2 | Providing & fixing in position Phenol bonded Bamboo wood in wall skirting with planks of sizes 14mm thick, 1900mm length (minimum) and 85mm wide(minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC). The skirting shall be fixed with SS screws & rawl plugs, over underlayment of 4mm thick, expanded poly ethylene foam sheets having 40kg/cum density over prepared surface. The bomboowood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of Engineer in-charge. | sqm | 4769.55 |
| 26.3 | Providing & fixing in position Phenol bonded Bamboo wood wall cladding at all height with planks of sizes 10mm thick, 1800mm length (minimum) and 130 mm wide (minimum), in approved colour, texture and finish, having Performance Appraisal Certificate (PAC) issued by Building Materials & Technology Promotion Council (BMTPC), with necessary profiled edges fixed with 40mm SS screws 5 nos in each tile to frame work made of second class teak wood of size 20x15 mm in centre of each tile and bottom and top of work height, 40x15mm placed at ends of each tile. The cladding shall be laid over backlayment of 1.00 mm thick expanded poly ethylene foam of density 40kg/cum in two layers, first layer on wall surface before fixing wooden frame and second layer on frame under cladding. The bomboowood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. with Eco friendly UV coating, all complete as per direction of Engineer in-charge. | sqm | 4784.75 |
| 26.4 | Providing & fixing in position Phenol bonded Bamboo wood panelled or panelled and glazed shutters for doors, windows, clerestorey windows with pre-molded 30mm thick planks, in approved colours, texture & finish. It shall have 10mm wide, 25mm deep groove to fit in panels. The bamboo wood shall have minimum density of 1000 Kg/cum, minimum Hardness 1000 Kgf. All styles and rails shall have profiled interlocking system locked in place by bamboo pins, all complete as per direction of Engineer in charge. (The panelling will be paid for separately). | sqm | 4918.00 |

| Description | Unit | Rate ₹ |
|--|---|---|
| Providing & fixing in position Phenol bonded Bamboo wood panelling of 10mm thick, in 25 to 40 mm thick panelled or panelled & glazed shutters for doors, windows, clerestorey windows, in approved colour, texture & finish. The bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. The panels shall have profiled interlocking system locked in place with bamboo pins all complete as per directions of Engineer in-charge. (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). | sqm | 3016.10 |
| Providing & fixing in position 65 mm thick factory made door frame of Phenol bonded Bamboo wood (superior class, interior use), in approved colour, texture and finish. The bamboo wood shall have minimum density of 1000 Kg/cum, minimum hardness 1000 Kgf. The door frame shall have tenon & mortise interlocking system, to be fixed to the wall with 100 mm size G.I screws all complete as per directions of Engineer-in charge. | cudm | 228.65 |
| Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size between cavity wall, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM C 578 (measured as per IS 3346), compressive strength of > 350 kPa listed as per ASTM D 1621, density of 34-36 kg/cum as per ASTM D 1622, water absorption ≤ 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardant property as per DIN 4102, Part 1 of class B2 and as per ASTM E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the directions of Engineer-in-Charge. | sgm | 649.10 |
| Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size underdeck on ceiling surface, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM C 578 (measured as per IS 3346), compressive strength of > 350 kPa listed as per ASTM D 1621, density of 34-36 kg/m³ as per ASTM D 1622, water absorption < 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardent property as per DIN 4102, Part 1 of class B2 and as per ASTM E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the directions of Engineer-in-Charge. | sqm | 685.75 |
| Providing and fixing factory made solid Foam uPVC profile for kitchen cabinet frame (45x20 mm) of approved shade, quality and make. The profile shall be laminated on both sides, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and the exposed edges sealed with PVC edge beading of same shade and colour. The frame shall be fire retardent with necessary screw holding capacity. Frame shall be fixed to wall using Expendable Fastener with necessary stainless steel screws, all complete as per directions of Engineer-in-charge. | metre | 294.65 |
| | Providing & fixing in position Phenol bonded Bamboo wood panelling of 10mm thick, in 25 to 40 mm thick panelled or panelled & glazed shutters for doors, windows, clerestorey windows, in approved colour, texture & finish. The bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. The panels shall have profiled interlocking system locked in place with bamboo pins all complete as per directions of Engineer in-charge. (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Providing & fixing in position 65 mm thick factory made door frame of Phenol bonded Bamboo wood (superior class, interior use), in approved colour, texture and finish. The bamboo wood shall have minimum density of 1000 Kg/cum, minimum hardness 1000 Kgf. The door frame shall have tenon & mortise interlocking system, to be fixed to the wall with 100 mm size G.I screws all complete as per directions of Engineer-in charge. Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size between cavity wall, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM C 578 (measured as per IS 3346), compressive strength of > 350 kPa listed as per ASTM D 1621, density of 34-36 kg/cum as per ASTM D 1622, water absorption ≤ 1% by volume as per ASTM D 2884, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardant property as per DIN 4102, Part 1 of class B2 and as per ASTM E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the directions of Engineer-in-Charge. Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size underdeck on ceiling surface, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM D 578. (22, water absorption ≤ 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as | Providing & fixing in position Phenol bonded Bamboo wood panelling of 10mm thick, in 25 to 40 mm thick panelled or panelled & glazed shutters for doors, windows, clerestorey windows, in approved colour, texture & finish. The bomboo wood planks shall have minimum density of 1000 Kg/cum & minimum Hardness 1000 Kgf. The panels shall have profiled interlocking system locked in place with bamboo pins all complete as per directions of Engineer in-charge. (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Providing & fixing in position 65 mm thick factory made door frame of Phenol bonded Bamboo wood (superior class, interior use), in approved colour, texture and finish. The bamboo wood shall have minimum density of 1000 Kg/cum, minimum hardness 1000 Kgf. The door frame shall have tenon & mortise interlocking system, to be fixed to the wall with 100 mm size G.I screws all complete as per directions of Engineer-in charge. Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size between cavity wall, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 2863, cell size 0.4 mm of dia (max) as per ASTM D 3576. Fire retardant property as per DIN 4102, Part 1 of class B2 and as per ASTM E84 class A, fixed with suitable water based adhesive and fastener, complete in all respect as per the directions of Engineer-in-Charge. Providing and fixing 50 mm thick extruded polystyrene rigid insulation board of required size underdeck on ceiling surface, complying with ISO 4898:2008 & ASTM C 578-08b - type VI, having thermal conductivity of 0.0289 W/m K as per ASTM D 582, water absorption ≤ 1% by volume as per ASTM D 2842, oxygen index of 24.1 to 28.1 listed as per ASTM D 3636, cell size 0.4 mm of dia (max) as per IS 3346), compressive strength of > 350 kPa listed as per ASTM D 1622, water absorption ≤ 13346), compressive strength of > 35 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 26.10 | Providing and fixing factory made Kitchen Cabinet Shutter/Partition 20 mm nominal thickness of approved shade, quality and make, made from rigid foam sheets (Single extruded) having density 600 Kg/cum and laminated on both side by laminate Sheet/PVC foil lamination. The exposed edges shall be sealed with PVC edge beading of same shade and colour. The shutter shall be fire retardent having necessary screw holding capacity. Shutter shall be fixed to frame using approved hinges with necessary stainless steel screws, all complete as per direction of Engineer-in-charge. | sqm | 3536.05 |
| 26.11 | Providing and fixing concealed hinge of approved quality for 19-20mm thick door with stainless steel screws complete: | each | 82.30 |
| 26.12 | Supplying & laying of bi-axial extruded high modulus polypropylene geogrid conforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 15kN/m in the longitudinal and transverse direction, with 5kN/m and 7kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening. | sqm | 135.20 |
| 26.13 | Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 20kN/m in the longitudinal and transverse direction, with 7kN/m and 14kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening. | sqm | 153.10 |
| 26.14 | Supplying & laying of bi-axial extruded high modulus polypropylene geogrid coforming to MORTH SPECIFICATION for base/sub-base reinforcement having minimum tensile strength 30kN/m in the longitudinal and transverse direction, with 10.5 kN/m and 21kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening. | sqm | 241.25 |
| 26.15 | Supplying & laying of bi-axial extruded high modulus polypropylene geogrid for base/sub-base reinforcement having minimum tensile strength 40kN/m in the longitudinal and transverse direction, with 14kN/m and 28kN/m tensile strength at 2% and 5% strain respectively in the longitudinal and transverse direction, junction efficiency not less than 95% and with 38mm X 38mm mesh opening. | sqm | 346.00 |
| 26.16 | Supplying & laying of drainage composite for use behind walls, between two different fills, along side-drains of road, below concrete lining of canals etc. Geocomposite for planar drainage, realized by thermo bonding a draining core in extruded monofilaments with two filtering nonwoven geotextiles that may also be working as separation or protecting layers. The draining three dimensional core will have a "W" configuration as longitudinal parallel channels. Minimum thickness to be 7.2mm, with two filtering UV stabilized polypropylene nonwoven geotextile of minimum thickness of 0.75mm charecteristic opening size (O90) of 110 micron and tensile strength of 8.0 kN/m that will be working as separation or protecting layer, geocomposite | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|--|------|-----------|
| | 1.0 & 20 k per unit easy trans | plane flow capacity of 2.1 L / (m.s) at hydraulic gradient of Pa pressure and tensile strength of 18 kN/m, with mass area of 740 gsm, supplied in the form of roll for sportation to site of work as per detailed specification all as per directions of Engineer in charge. | sqm | 657.80 |
| 26.17 | Supplying & laying of drainage composite for use behind walls, between two different fills, alongside drains of road, below concrete lining of canals etc. having thermobonding a draining core - HDPE geonet comprises of two sets of parallel overlayed ribs integrally connected to have a rhomboidal shape with a polyethylene film and a nonwoven geotextile having mass per unit area 130 gsm and tensile strength of 8.0 kN/m that will be working as separation or protecting layer, geocomposite having in plane flow capacity of 0.7 L / (m.s) at hydraulic gradient of 1.0 & 20 kPa pressure and tensile strength of 13.5 kN/m, with mass per unit area of 830 gsm, at easily accessible location including top and bottom, with all leads and lifts, manpower and machinery, materials, labour etc. complete and as directed by Engineer -in - Charge. | | sqm | 780.45 |
| 26.18 | reinforcen 113, made with minim | and laying high strength flexible geogrids (HSFG) as soil nent / basal reinforcement as per MORTH 3100 and IRC of high tenacity polyester core with polyethylene coating num Long Term Design Strength (LTDS) of more than 50% tensile strength at 30 degree Celcius corresponding to in . | ŕ | |
| | 26.18.1 | Ultimate tensile strength- 100 kN/m | sqm | 269.35 |
| | 26.18.2 | Ultimate tensile strength- 150 kN/m | sqm | 294.95 |
| | 26.18.3 | Ultimate tensile strength- 200 kN/m | sqm | 397.15 |
| | 26.18.4 | Ultimate tensile strength- 250 kN/m | sqm | 435.45 |
| | 26.18.5 | Ultimate tensile strength- 300 kN/m | sqm | 461.00 |
| | 26.18.6 | Ultimate tensile strength- 350 kN/m | sqm | 512.15 |
| | 26.18.7 | Ultimate tensile strength- 400 kN/m | sqm | 550.45 |
| | 26.18.8 | Ultimate tensile strength- 500 kN/m | sqm | 652.65 |
| | 26.18.9 | Ultimate tensile strength- 600 kN/m | sqm | 716.55 |
| | 26.18.10 | Ultimate tensile strength- 700 kN/m | sqm | 844.30 |
| | 26.18.11 | Ultimate tensile strength- 800 kN/m | sqm | 918.40 |
| | 26.18.12 | Ultimate tensile strength- 900 kN/m | sqm | 1088.35 |
| | 26.18.13 | Ultimate tensile strength- 1000 kN/m | sqm | 1227.60 |
| | 26.18.14 | Ultimate tensile strength- 1100 kN/m | sqm | 1291.50 |
| | 26.18.15 | Ultimate tensile strength- 1200 kN/m | sqm | 1403.95 |
| 26.19 | industrial to IS 1254 | at all heights, levels and locations Aluminium profile troughed sheet of Alloy 31500/31000/40800, conforming 4, IS 737, IS 2676. The sheet shall be fixed using self of tapping SS screws of size 5.5x65 mm with EPDM seal | | |

| Code No. | Description complete upto required pitch in horizontal, vertical or curved surfaces i/c cutting to size and shape where required as per specifications, detail drawings and direction of Engineer-in-Charge. The rate shall be inclusive of all screws, seal, ridge, labour, scaffolding, machinery for fixing and approved sealent where required etc. but excluding the cost of purlins, rafters and trusses. | | Unit | Rate ₹ |
|-------------|---|---|----------|-----------|
| | | | | |
| | 26.19.1 | 0.71 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm. | sqm | 790.30 |
| | 26.19.2 | 0.91 mm thick, the profile detail width 1044/920 mm, cover width 1000/875 mm. | sqm | 997.10 |
| 26.20 | ward of G neatly dre T&P like to | round the clock security guard without gun for watch & overnment premises and its all belongings by deploying ssed security guards in 8 hour's shift including necessary orch, lathi and uniform etc.complete, as per directions of in-charge. (One job means 8 hour's duty). | each job | 487.95 |
| 26.21 | of Govern dressed s T&P like to | round the clock security guard with gun for watch & ward ment premises and its all belongings by deploying neatly security guards in 8 hour's shift including necessary orch, lathi and uniform etc.complete,as per directions of in-charge.(One job means 8 hour's duty). | each job | 535.10 |
| 26.22 | Engineer-in-charge. (One job means 8 hour's duty). Providing and fixing false ceiling at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 24x38 mm of length 3000 mm, cross - T of size 24x32 mm of length 1200 mm and secondary intermediate cross-T of size 24x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of Engineer-in-Charge. | | | |
| | 26.22.1 | With 15 mm thick tegular edged light weight calcium silicate false ceiling tiles. | sqm | 1533.45 |
| 26.23 | calcium si | and fixing false ceiling at all heights with integral densified ilicate reinforced with fibre and natural filler false ceiling to 595x595 mm of approved texture, design and patterns | | |

Code Description Unit Rate No. ₹

having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 & 7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, in true horizontal level suspended on interlocking metal powder coated T-Grid of hot dipped galvanised iron section of 0.40 mm thick on Silhouette profile, rotary stiched double webbed white with 6 mm reveal profile (white/black), comprising of main-T runners of size 15x42 mm of length 3000 mm, cross - T of size 15x42 mm of length 1200 mm and secondary intermediate cross-T of size 15x42 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 22x19x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40mm long dry wall S.S screws. The work shall be carried out as per specifications, drawing and as per directions of the Engineer-in-Charge.

26.23.1 With 15 mm thick integral densified micro edge light weight calcium silicate false ceiling tiles

sqm 1761.15

26.24

Providing and fixing in position wall panelling at all heights with integral densified calcium silicate panels/tiles of size 595 x 595mm. having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 & 7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991, comprising of a frame made from especially fabricated galvanised mild steel sheet 0.50 mm thick pressed section (galvanizing @120 grams per sqm including both sides) i.e.vertical studs of size 48 x 34 x 36 mm are placed at 600mm center to center in a floor and ceiling channel section of size 50 x 32m fixed to the floor and soffit at 600mm centers using 12mm dia,50mm long wedge type expanded zinc alloy dash fastner with 10mm bolt. This same channel is then to be fixed in horiziontal direction at 600mm center to center so as to form a grid of 600mm x 600mm. Glasswool of 50mm thickness is then to be inserted in the slots and finally calcium silicate non combustible panels/tiles are to be screw fixed with self tapping pan head nickel coated mild steel screws of size 13 x 3.2mm on to this grid leaving an even groove of 1 mm between the panels. The joints between the panels are to be duly jointed and finished using recommended jointing calcium silicate based compound and fiber joint tape roll 50mm wide (90 metre) roll and two coats of primer suitable for panelling as per manufacturer's specification as per direction of Engineer-in-Charge all complete.

26.24.1 With 15 mm thick fully perforated square/butt edge light weight calcium silicate panels/ tiles

sqm 2150.20

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 26.25 | Providing and fixing 15 mm thick false ceiling tiles at all heights with integral densified calcium silicate reinforced with fibre and natural filler false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having NRC (Noise Reduction coefficient) of 0.50 (minimum) as per IS 8225:1987, Light reflectance of 85% (minimum). Non combustible as per BS:476 (part-4), fire performance as per BS:476 (part 6 &7), humidity resistance of 100%, thermal conductivity < 0.043 W/m K as per ASTM 518:1991,in true horizontal level on the existing frame work consisting of T-sections and Lsections suitably fixed according to tile size as per direction of Engineer-in-charge. | sqm | 1291.20 |
| 26.26 | Providing & fixing false ceiling at all heights with GRG (Glass Fibre Reinforced Gypsum) false ceiling tiles of Size 595x595 mm of approved texture, design and patterns having moisture content less than 2%, humidity resistance of 99%, NRC 0.50 to 0.75 as per IS 8225:1987, Non combustible as per BS 476 (part-4)-1970 and light reflectance of 85% (minimum) to be laid in true horizontal level suspended on inter-locking metal T-Grid of hot dipped galvanised iron section of 0.33mm thick (galvanized @ 120 grams per sqm including both sides) comprising of main-T runners of size 15x32 mm of length 3000 mm, cross - T of size 15x32 mm of length 1200 mm and secondary intermediate cross-T of size 15x32 mm of length 600mm to form grid module of size 600 x 600 mm, suspended from ceiling using galvanised mild steel items (galvanizing @ 80 grams per sqm) i.e. 50 mm long, 8 mm outer diameter M-6 dash fasteners, 6 mm dia fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm. Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall SS screws. The work shall be carried out as per specifications, drawing and as per directions of Engineer-in-Charge. | | |
| | 26.26.1 With semi perforated 12 mm thick micro tegular edged GRG false ceiling tiles. | sqm | 1352.90 |
| | 26.26.2 With fully perforated 12 mm thick micro tegular edged or 10 mm thick square edged GRG false ceiling tiles. | sqm | 1452.90 |
| 26.27 | Providing and fixing mineral fibre false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance ≥ 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 &7)in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised @80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod upto 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced | | |

| Code No. | | Description | Unit | Rate ₹ | |
|-------------|---|--|-------|-----------|--|
| | at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be prepainted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge. | | | | |
| | 26.27.1 | With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6) | sqm | 1535.00 | |
| | 26.27.2 | With 20 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.7) | sqm | 1783.80 | |
| | 26.27.3 | With 16 mm thick beveled tegular mineral fibre Anti- microbial false ceiling tile | sqm | 1621.60 | |
| | REPAIR A | AND REHABILITATION ITEMS | | | |
| 26.28 | Chipping of unsound/weak concrete material from slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge | | | | |
| | 26.28.1 | 75mm average thickness | sqm | 167.15 | |
| | 26.28.2 | 50mm average thickness | sqm | 111.55 | |
| | 26.28.3 | 25 mm average thickness | sqm | 56.20 | |
| 26.29 | Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge. | | | | |
| | 26.29.1 | Bars upto 12 mm diameter | metre | 4.15 | |
| | 26.29.2 | Bars above 12 mm diameter | metre | 8.30 | |
| 26.30 | Drilling suitable holes in reinforced or plain cement concrete with power driven drill machine to a minimum depth of 100mm upto 200mm in RCC beams, lintels, columns and slabs to introduce steel bars for sunshades/balconies including fixing the steel bars in position using epoxy resin anchor grout of approved make but excluding the cost of reinforcement, all complete as per direction of Engineer-In-Charge. | | | | |
| | 26.30.1 | Upto and including 12mm dia. | each | 71.15 | |
| 26.31 | on chippe | , mixing and applying bonding coat of approved adhesive ed portion of RCC as per specifications and direction of -In-charge complete in all respect. | | | |

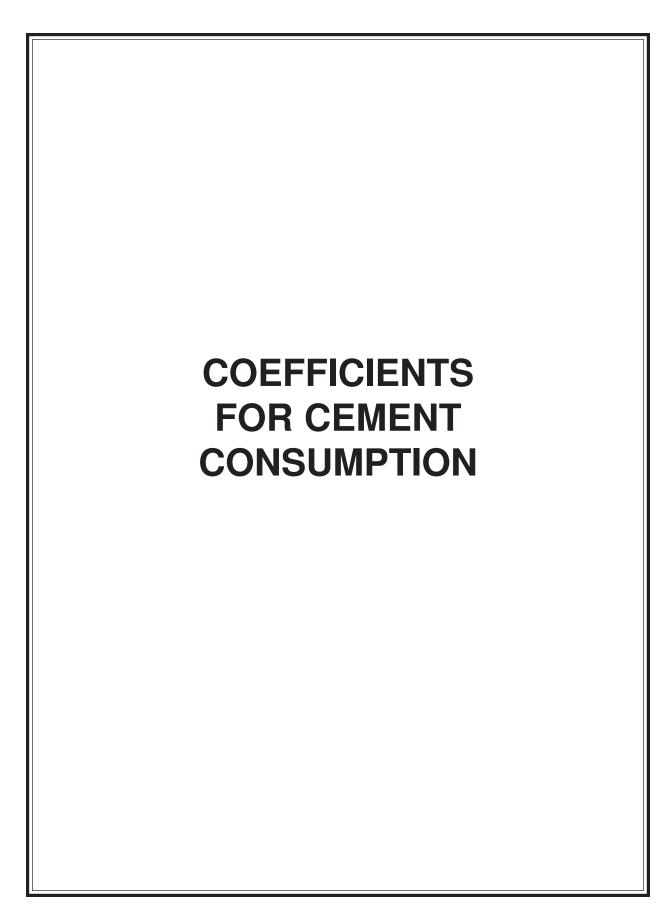
| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|------|-----------|
| | 26.31.1 | SBR Polymer (@10% of cement weight) modified cementitious bond coat @2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer | sqm | 87.55 |
| | 26.31.2 | Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make | sqm | 314.95 |
| 26.32 | Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge. Note: Measurement and payment: The pre-measurement of thickness shall be done just after the surface preparation is completed and Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding / tapping with a blunt metal instrument and/or the 75mm size cube crushing strength at the end of 28 days to be not less than 30 N/ mm²). | | | |
| | 26.32.1 | 12 mm average thickness. | sqm | 203.85 |
| | 26.32.2 | 25 mm average thickness in 2 layers. | sqm | 330.90 |
| | 26.32.3 | 50 mm average thickness in 3 layers. | sqm | 661.75 |
| 26.33 | minimum cement of character coarse sa | , mixing and applying SBR polymer (of approved make @ 2% by wt. of cement used) modified plain/reinforced concrete for structural members having minimum istic compressive strength [with ordinary portland cement, and and graded stone aggregate of 10mm maximum size ion as per design criteria] with specified average thickness. | | |
| | Note: Rates shall be for finished surface area of concrete and shall include the cost of labour, concrete and appropriate approved Super-Plasticiser for rendering concrete as flowable and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument) | | | |
| | 26.33.1 | 50mm thick in Grade M 25 with cement content not less than 330 kg per cum | sqm | 478.40 |
| | 26.33.2 | 75mm thick in Grade M 25 with cement content not less than 330 kg per cum | sqm | 717.65 |
| 26.34 | Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars, piers, beams etc with concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10mm maximum size in proportion as per design criteria] with specified average thickness all-round existing core of RCC member. | | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|--|---|------|-----------|
| | Note: Rates shall be for finished surface area of concrete and shall include the cost of making holes in existing RCC slab, if required, for pouring concrete in shuttering mould of jacket and appropriate approved Super-Plasticiser for rendering concrete as flowable self compacting and SBR polymer but shall exclude cost of reinforcement, bond coat, Shear Keys, centering and shuttering, strutting, propping etc (Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument) | | | |
| | 26.34.1 | 50mm thick in Grade M 25 with cement content not less than 330 kg per cum | sqm | 478.40 |
| | 26.34.2 | 75mm thick in Grade M 25 with cement content not less than 330 kg per cum | sqm | 717.65 |
| | 26.34.3 | 100mm thick in Grade M 25 with cement content not less than 330 kg per cum | sqm | 956.85 |
| 26.35 | Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/ masonry by suitable gun/pump at required pressure including cutting of nipples after curing etc. complete as per directions of Engineer- in-Charge. | | | |
| | (The payn grout inje | nent shall be made on the basis of actual weight of approved cted.) | | |
| | 26.35.1 | Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of cement used) modified Cement slurry made with non shrink compound in concrete/RCC work | kg | 69.50 |
| | 26.35.2 | Stirrer mixed SBR Polymer (of approved make) modified Cement slurry made with Shrinkage Compensating Cement in concrete/RCC work. | kg | 73.00 |
| | 26.35.3 | Epoxy injection grout in concrete/RCC work of approved make | kg | 644.45 |
| 26.36 | Providing, erecting, maintaining and removing temporary protective screens made out of specified fabric with all necessary fixing arrangement to ensure that it remains in position for the work duration as required by the Engineer-in-charge. | | | |
| | 26.36.1 | Wooven PVC cloth | sqm | 39.05 |
| 26.37 | Cleaning of exposed concrete surface of sticking material including loose and foreign material by sand blasting with coarse sand followed by and including cleaning with oil free air blast as per direction of Engineer in charge. | | sqm | 252.60 |
| 26.38 | Shotcreting R.C.C. columns, beams and slabs etc. in layers with approved design mix concrete having the specified minimum characteristic compressive strength [with ordinary portland cement, coarse sand and graded stone aggregate of 10 mm maximum size in proportion as per design criteria] including the cost of centering and shuttering at edges and corners etc. as directed by Engineer-in-Charge | | | |

| Code No. | | Description | Unit | Rate ₹ |
|-------------|---|---|------|-----------|
| | Note: Rates shall include the providing necessary ground wires etc. The levelling gauges, if used, shall be paid for separately. Payment under this item shall be made only after proper wet curing has been done and surface has been satisfactorily evaluated by sounding/tapping with a blunt metal instrument. | | | |
| | 26.38.1 | 25mm thick in Grade M 25 with cement content not less than 330 kg per cum | sqm | 498.45 |
| | 26.38.2 | 50mm thick in Grade M 25 with cement content not less than 330 kg per cum | sqm | 831.30 |
| | 26.38.3 | 75mm thick in Grade M 25 with cement content not less than 330 kg per cum | sqm | 1217.60 |
| 26.39 | Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diametre (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-In-Charge. | | each | 147.50 |
| 26.40 | mesh or o to the co shear key | and fixing hard drawn steel wire fabric of size 75 x25 mm other suitable size wire mesh to be fixed & firmly anchored concrete surface by means of "L" shaped mild steel with existing reinforcement including the cost of labour, tool & plants as approved by engineer-in-charge. | sqm | 601.60 |
| | NEW TE | CHNOLOGYITEMS | | |
| 26.41 | designed comprising out of management Aluminium 300-550 cold form 1987, ISC per provist as per IS: CAD Pro- 2011 or et Heavy D connect to | g, providing, installing and fixing factory finished custom I cold form Light Gauge Steel Framed super structure ing of steel wall panel, trusses, purlins etc manufactured ininimum 0.75 mm thick steel sheet as per design ents. The steel sheet shall be galvanized (AZ-150 gms im Zinc Alloy coated steel having minimum yield strength Mpa) conforming to AISI specifications and IBC 2009 for ed steel framing and construction and also as per IS: 875-0 800-1984 and IS: 801-1975. The wind load shall be as sions of IS 875 (part -III). LGSFS frame shall be designed 801 using commercially available software such as Frame 11.7/ STAAD PRO-V8i/ArchitekV2.5.16/ Revit architecture-equivalent. Proper usage of Connection Accessories like the uty Tension Ties, Light Duty Hold-ons, Twist Straps (to truss with wall frames), Strong Tie, Tie Rod, H-Brackets, ections, L-Shaped Angles for better structural stability. | | |
| | depth 89 structura required I centre lin from botl | ing section shall be cold form C-type having minimum web mm x 39mm flange x 11mm lip in required length as per I design requirement duly punched with dimple/slot at ocations as per approved drawings. The slots will be along the of webs and shall be spaced minimum 250mm away in ends of the member. The frame can be supplied in the dor knock down condition in specific dimensions and | | |

| Code No. | Description | Unit | Rate ₹ |
|-------------|--|------|-----------|
| | fastened with screws extending through the steel beyond by minimum of three exposed threads. All self drilling tapping screws for joining the members shall have a Type II coating in accordance with ASTM B633(13) or equivalent corrosion protection of gauge 10 & 12, TPI 16 & 8 of length 20mm. The frames shall be fixed to RCC slab or Tie beam over Neoprene rubber using self expanding carbon steel anchor bolt of dia as per approved drawings. design subject to minimum 12mm diameter and 121mm length conforming to AISI 304 and 316 at 500mm c/c with minimum embedment of 100mm in RCC (RCC to be paid separately) and located not more than 300mm from corners or termination of bottom tracks complete in all respects. The item also includes the submission of stability reports duly examined and issued by any NIT/IIT. The rate includes the concept design, detailed design, fabrication of sections, transportation, installation and all required fixing arrangement at site as described above. | Kg | 174.10 |
| 26.42 | Providing and fixing of external wall system on Light gauge steel frame work with . Outer face having 6mm thick heavy duty fiber cement board fixed on 9mm thick heavy duty fiber cement board confirming to IS 14862:2000, category IV type A (High pressure steam cured) as per standard sizes fixed with self-drilling / taping screws / fasteners @ 60cm c/c of approved make. A grove of 2 mm to 3mm shall be maintained and groves shall be sealed with silicon based sealant. The board shall be fixed in a staggered pattern. Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm and internal face 12.5mm thick gypsum plaster board fixed on 8mm thick fiber cement board confirming to IS 14862:2000 of category III type B (High pressure steam cured) as per standard sizes fixed with self-drilling / taping screws / fasteners @ 60cm c/c of approved make, proper taping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound for seamless finish. (cost of frame work to be paid for separately). | Sgm | 2783.65 |
| 26.43 | Providing and fixing internal wall panels on Light gauge steel frame work with 12.5mm thick gypsum plaster board conforming IS 2095:2011 fixed on 8mm thick fiber cement board conforming to IS 14862:2000 of category III type B (High pressure steam cured) as per standard sizes fixed with self-drilling / taping screws / fasteners @ 60cm c/c of approved make, Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm. Proper taping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound for seamless finish.(cost of frame work to be paid for separately) | Sqm | 1738.45 |
| 26.44 | Providing and fixing in all exterior face panels breathable vapour barrier underneath the cement fiber board as per National Building Code 2009 complete as per direction of Engineer-in-charge. | Sqm | 238.05 |
| 26.45 | Supplying and installation of moisture resistant/fire resistant 6 mm thick Heavy duty fiber cement board (High pressure steam cured) conforming to IS 14862:2000 of category III type B as per standard sizes fixed with self-drilling / taping screws. Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of | | |
| | length varying from 25 to 45 mm. | Sqm | 869.15 |

| Code No. | Description | Unit | Rate ₹ |
|-------------|---|------|-----------|
| 26.46 | Providing and fixing in position, 200 mm thick factory made Expanded Polystyrene Core (EPS Core) wall panels consisting of EPS core sandwiched between two Engineered sheets of welded wire fabric mesh duly finished with shortcrete materials on outer faces. The fabric mesh shall be made of 3 mm dia G.I. wire mesh with 50 mm pitch in both the directions and on both faces of the wall, kept at 120-135 mm gap and connected by the zig zag G.I. wire of 3 mm dia at alternate row by welding (at an angle ranging from 50-70 degree). The EPS core shall consist of 100 mm thick EPS of density not less than 20 kg/ per cum. Both the outer faces of the panel shall be finished by applying the layer of 50 mm thick cement mortar 1:3 {1 cement: 3 coarse sand (not having more than 40% stone chips of size upto 6 mm)} À with the help of shotcreting/guniting equipment etc at a pressure not less than 1 bar (100Kn/m2) and both surfaces finished with trowel. Fixing operations of wall panels shall be completed in all respect as per drawings and specifications and under the overall direction of the Engineer-in-charge. | sqm | 3246.15 |
| 26.47 | Providing and fixing in position, 230mm thick factory made Expanded Polystyrene Core (EPS Core) roof/floor panels made of 3 mm dia G.I. wire mesh with 50 mm pitch in both the directions and on both faces of panel, kept at 120-135 mm gap and connected by the zig zag G.I. wire of 3 mm dia at alternate row by welding (at an angle ranging from 50-70 degree). The EPS core shall consist of 100 mm thick EPS of density not less than 20kg/ per cum. The bottom side of the panel shall be finished by applying a layer of 60-65 mm thick cement mortar 1: 3 {1 cement: 3 coarse sand (not having more than 40% stone chips of size upto 6 mm)} À with the help of shotcreting equipment etc at a pressure of not less than 1 bar (100Kn/m2) and surface finished with trowel. The top face of the panel shall be provided and finished by applying 70-75 mm thick layer of cement concrete 1:1.5: 3 (1 cement :1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size). Fixing operations of roof/floor panels shall be completed in all respect as per drawings and specifications and under the overall direction of the Engineer-in-charge. | sqm | 3436.35 |
| 26.48 | Providing and fixing of costomized Aluminium formwork for monolithic construction RCC members with a repetitive usage of 100 times using grade 5052 aluminium for panel sheets of minimum 4 mm thick and grade 6061 (Type-6) aluminium for extruded sections. The form work includes of beam components i.e. beam side panel,prop head for soffit beam,beams soffit panel,beam soffit bulk head and deck componets i.e. deck panel, deck prop, prop length, deck mid, soffit length, deck beam bar and wall components i.e. wall panel, rocker, kiker and internal soffit corner, external soffit corner,external corner,internal corner etc.,The panels are held in position by a simple pin and wedge system that passes through holes in the out side rib of each panel. The tolerance of finished panels to be (-1 mm), and shall conform to IS 14687-1999. Pins and wedges to be made of high grade mild steel,all complete as per direction of Engineer-incharge. (Cost of RCC work shall be paid seperately) | sqm | 149.45 |



1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 3.0 MORTAR

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|---|------|---|
| 3.1 | Cement Mortar 1:1 (1 cement : 1 fine sand). | cum | 10.20 |
| 3.2 | Cement mortar 1:2 (1 cement : 2 fine sand). | cum | 6.80 |
| 3.3 | Cement mortar 1:3 (1 cement : 3 fine sand). | cum | 5.10 |
| 3.4 | Cement mortar 1:4 (1 cement : 4 fine sand). | cum | 3.80 |
| 3.5 | Cement mortar 1:5 (1 cement : 5 fine sand). | cum | 3.10 |
| 3.6 | Cement mortar 1:6 (1 cement : 6 fine sand). | cum | 2.50 |
| 3.7 | Cement mortar 1:2 (1 cement : 2 coarse sand). | cum | 6.80 |
| 3.8 | Cement mortar 1:3 (1 cement : 3 coarse sand). | cum | 5.10 |
| 3.9 | Cement mortar 1:4 (1 cement : 4 coarse sand). | cum | 3.80 |
| 3.10 | Cement mortar 1:5 (1 cement : 5 coarse sand). | cum | 3.10 |
| 3.11 | Cement mortar 1:6 (1 cement : 6 coarse sand). | cum | 2.50 |
| 3.12 | Cement mortar 1:2 (1 cement : 2 stone dust). | cum | 6.80 |
| 3.13 | Cement mortar 1:2 (1 cement : 2 marble dust). | cum | 6.80 |
| 3.14 | Cement mortar 1:5 (1 cement : 5 marble dust). | cum | 3.10 |
| 3.15 | White cement mortar 1:2 (1 white cement : 2 marble dust). | cum | 6.80* |
| 3.16 | White cement mortar 1:3 (1 white cement : 3 marble dust). | cum | 5.10* |
| 3.17 | White cement mortar 1:5 (1 white cement : 5 marble dust). | cum | 3.10* |

^{*} white cement

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 4.0 CONCRETE WORK

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|---------|--|------|---|
| | CEMEN | T CONCRETE (CAST - IN- SITU) | | |
| 4.1 | P/L cem | ent concrete - all works upto plinth level : | | |
| | 4.1.2 | 1:1½:3 (1 Cement : 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size) | cum | 4.00 |
| | 4.1.3 | 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) | cum | 3.20 |
| | 4.1.4 | 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size) | cum | 3.20 |
| | 4.1.5 | 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) | cum | 2.20 |
| | 4.1.6 | 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) | cum | 2.20 |
| | 4.1.8 | 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) | cum | 1.70 |
| | 4.1.10 | 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) | cum | 1.30 |
| | 4.1.11 | 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) | cum | 1.30 |
| | 4.1.12 | 1:2:3½:9 (1 ordinary portland cement : 2 Fly ash : 3½ coarse sand : 9 graded stone aggregate 40 mm nominal size) | cum | 1.70 |
| | 4.1.13 | 1:2½:4:11 (1 ordinary portland cement : 2½ fly ash : 4 coarse sand : 11 graded stone aggregate 40 mm nominal size) | cum | 1.30 |
| 4.2 | P/L cem | ent concrete in retaining walls, return walls etc.: | | |
| | 4.2.2 | $1:1\frac{1}{2}:3$ (1 cement: $1\frac{1}{2}$ coarse sand:3 graded stone aggregate 20 mm nominal size) | cum | 4.00 |
| | 4.2.3 | 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) | cum | 3.20 |
| | 4.2.5 | 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) | cum | 2.20 |
| | 4.2.8 | 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) | cum | 1.30 |

| | | | per unit quantity of work (Quintals) |
|-----------|---|--|--|
| P/L ceme | ent concrete in kerbs, steps etc.: | | |
| 4.4.1 | 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) | cum | 4.00 |
| CEMENT | CONCRETE (PRE-CAST) | | |
| | | | |
| 4.5.1 | 1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size) | cum | 4.05 |
| P/L preca | ast cement concrete in kerbs, edgings etc.: | | |
| 4.6.1 | 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size) | cum | 4.05 |
| P/L preca | ast cement concrete solid blocks: | | |
| 4.7.1 | 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) | cum | 4.56 |
| P/L preca | ast cement concrete hollow blocks: | | |
| 4.8.1 | 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) | cum | 2.899 |
| | | each | 0.097 |
| DAMP- P | ROOF COURSE | | |
| P/L D.P.C | C. 40 mm thick with C.C. (1:2:4). | sqm | 0.13 |
| P/L D.P.C | C. 50 mm thick with C.C. (1:2:4). | sqm | 0.16 |
| MISCELL | ANEOUS | | |
| Making p | linth protection 50 mm thick of cement concrete 1:3:6 | sqm | 0.11 |
| P/L Read | y mixed concrete using flyash: | | |
| 4.19.1 | All works upto plinth level | | |
| 4.19.1.1 | M-15 grade plain cement concrete | cum | 2.40 |
| 4.19.1.2 | M-10 grade plain cement concrete | cum | 2.20 |
| 4.19.2 | All works above plinth and upto floor V level | | |
| 4.19.2.1 | M-15 grade plain cement concrete | cum | 2.40 |
| 4.19.2.2 | M-10 grade plain cement concrete | cum | 2.20 |
| | 4.4.1 CEMENT P/L precacopings 6 4.5.1 P/L precacopings 6 4.5.1 P/L precacopings 6 4.6.1 P/L | Aggregate 20 mm nominal size) CEMENT CONCRETE (PRE-CAST) P/L precast cement concrete string or lacing courses, copings etc.: 4.5.1 1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size) P/L precast cement concrete in kerbs, edgings etc.: 4.6.1 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) P/L precast cement concrete solid blocks: 4.7.1 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) P/L precast cement concrete hollow blocks: 4.8.1 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) Precasting and placing in position 125 mm dia Bollards 600 mm high. DAMP-PROOF COURSE P/L D.P.C. 40 mm thick with C.C. (1:2:4). P/L D.P.C. 50 mm thick with C.C. (1:2:4). MISCELLANEOUS Making plinth protection 50 mm thick of cement concrete 1:3:6 P/L Ready mixed concrete using flyash: 4.19.1 All works upto plinth level 4.19.1.1 M-15 grade plain cement concrete 4.19.2 All works above plinth and upto floor V level 4.19.2.1 M-15 grade plain cement concrete | CEMENT CONCRETE (PRE-CAST) P/L precast cement concrete string or lacing courses, copings etc.: 4.5.1 1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size) cum P/L precast cement concrete in kerbs, edgings etc.: 4.6.1 1:1.5:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size) cum P/L precast cement concrete in kerbs, edgings etc.: 4.6.1 1:1.5:3 (1 cement:1.5 coarse sand:3 graded stone aggregate 20 mm nominal size) cum P/L precast cement concrete solid blocks: 4.7.1 1:1.5:3 (1 cement:1.5 coarse sand:3 graded stone aggregate 20 mm nominal size) cum P/L precast cement concrete hollow blocks: 4.8.1 1:1.5:3 (1 cement:1.5 coarse sand:3 graded stone aggregate 20 mm nominal size) cum Precasting and placing in position 125 mm dia Bollards 600 mm high. cum Precasting and placing in position 125 mm dia Bollards 600 mm high. cach DAMP- PROOF COURSE P/L D.P.C. 40 mm thick with C.C. (1:2:4). sqm MISCELLANEOUS Making plinth protection 50 mm thick of cement concrete 1:3:6 sqm P/L Ready mixed concrete using flyash: 4.19.1 All works upto plinth level 4.19.1.1 M-15 grade plain cement concrete 4.19.2 All works above plinth and upto floor V level 4.19.2 All works above plinth and upto floor V level 4.19.2.1 M-15 grade plain cement concrete cum |

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|-----------|---|------|---|
| 4.20 | P/L ready | y mix plain cement concrete : | | |
| | 4.20.1 | All works upto plinth level | | |
| | 4.20.1.1 | M-15 grade plain cement concrete | cum | 2.40 |
| | 4.20.1.2 | M-10 grade plain cement concrete | cum | 2.20 |
| | 4.20.2 | All works above plinth and upto floor V level | | |
| | 4.20.2.1 | M-15 grade plain cement concrete | cum | 2.40 |
| | 4.20.2.2 | M-10 grade plain cement concrete | cum | 2.20 |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION **5.0 REINFORCED CEMENT CONCRETE**

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|----------|--|---------|---|
| | CAST-IN | N-SITU | | |
| 5.1 | P/L R.C | .C. upto plinth level : | | |
| | 5.1.2 | 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) | cum | 4.00 |
| | 5.1.3 | 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) | cum | 3.20 |
| 5.2 | R.C.C w | ork in walls etc.: | | |
| | 5.2.2 | 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) | cum | 4.00 |
| 5.3 | R.C.C. (| 1:1.5:3) work in beams etc. | cum | 4.00 |
| 5.4 | R.C.C. (| 1:1.5:3) work in kerbs, steps etc. | cum | 4.00 |
| 5.5 | R.C.C. (| 1:1.5:3) work in arches,domes etc. | cum | 4.00 |
| 5.6 | R.C.C. (| 1:1.5:3) work in chimneys & shafts. | cum | 4.00 |
| 5.7 | R.C.C. (| 1:1.5:3) work in well-steining. | cum | 4.00 |
| 5.8 | , | 1:1.5:3) work in vertical and horizontal fins individually ng box louvers, facias and eaves boards. | cum | 4.00 |
| | PRE - C | AST R.C.C. | | |
| 5.12 | • | cast R.C.C. (1:1.5:3) work in string courses, bands, , bed plates, anchor blocks, plain window sills etc. | cum | 4.00 |
| 5.13 | • | cast R.C.C. (1:1.5:3) in small lintels not exceeding ear span. | cum | 4.00 |
| 5.14 | • | cast R.C.C. (1:1.5:3) in mouldings as in cornices, s sills etc. | cum | 4.00 |
| 5.15 | P/F pred | east R.C.C. (1:1.5:3) in lintels, beams and bressumers etc. | cum | 4.00 |
| 5.16 | P/F pred | east R.C.C. (1:1.5:3) in shelves. | cum | 4.05 |
| 5.17 | | ast R.C.C. (1:1.5:3) in vertical & horizontal fins individually ng box louvers. | cum | 4.00 |
| 5.18 | Fixing p | recast cement concrete Jali (1:2:4). | | |
| | 5.18.1 | 50 mm thick | 100 sqm | 1.64* |
| | 5.18.2 | 40 mm thick | 100 sqm | 1.64* |
| | 5.18.3 | 25 mm thick | 100 sqm | |
| | * Ceme | nt for fixing only. | | |

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|----------------------|---|-------------------|---|
| | ENCASI | NG ROLLED STEEL SECTION | | |
| 5.19 | | g rolled steel sections, in beams and columns, with concrete (1:1.5:3). | cum | 4.00 |
| 5.20 | , | g rolled steel section in grillages with cement (1:1.5:3). | cum | 4.00 |
| | MISCEL | LANEOUS | | |
| 5.23 | | finishing of exposed surface of R.C.C. work with ck cement mortar (1:3). | 100 sqm | 3.67 |
| 5.24 | Renderir | ng smooth the top of suspended floors, landings and | | |
| | staircase | es with cement mortar (1:2). | 100 sqm | 4.17 |
| 5.27 | Providing | g and filling in position bitumen mix filler. | cum | 0.032 |
| | DESIGN | MIX CONCRETE | | |
| 5.33 | P/L Desi | gn mix concrete (M-25). | cum | 3.30* |
| 5.34 | Extra for | providing richer mixes at all floor levels: | | |
| | 5.34.1 | Providing M-30 grade concrete instead of M-25 grade B.M.C/ R.M.C. | cum | 0.10* |
| | 5.34.2 | Providing M-35 grade concrete instead of M-25 grade B.M.C./ R.M.C. | cum | 0.20* |
| | 5.34.3 | Providing M-40 grade concrete instead of M-25 grade B.M.C./ R.M.C. | cum | 0.30* |
| 5.36 | P/F prec | ast R.C.C. in waffle units. | cum | 4.16* |
| 5.37 | | manufactured in fully automatic batching plant de R.C.C. | cum | 3.30* |
| 5.40 | * Actual | gn mix cement concrete M-25 using Fly ash. weight for design mix will be worked out taking in ration the cement requirement as per particular ign. | cum nto | 3.30* |
| 5:47:1 | P/F facto | ory made precast RCC M-40 doors & windows | metre | 0.049 |
| 5:47:2 | P/F facto | ory made precast RCC M-40 doors & windows | metre | 0.044 |
| 5:47:3 | P/F facto | ory made precast RCC M-40 doors & windows | metre | 0.041 |
| 5.48 | Providing portal fra | g and laying RCC for construction of piers abutments mes etc. | cum | 4.80 |
| 5.49 | Construc | cting cast insitu RCC diaphram wall by providing | cum. | 4.14 |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 6.0 BRICK WORK

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|---------------|-----------------------|---|-----------|---|
| 6.1 | Brick wo | ork in foundation & plinth with non modular bricks. | | |
| | 6.1.1 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 0.95 |
| | 6.1.2 | Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 0.625 |
| 6.2 | Brick wo | ork in foundation & plinth with modular bricks. | | |
| | 6.2.1 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 0.836 |
| | 6.2.2 | Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 0.55 |
| 6.3 | Brick wo | rk with machine moulded perforated bricks. | | |
| | 6.3.1 | With non modular bricks. | cum | 0.625 |
| | 6.3.2 | With modular bricks. | cum | 0.55 |
| 6.4 | Brick wo | ork in superstructure. | | |
| | 6.4.1 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 0.95 |
| | 6.4.2 | Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 0.625 |
| 6.7 | | k masonry in cement mortar (1:3) for closing cavity cm wide in cavity wall. | 100 metre | 3.86 |
| 6.8 | Brick wo | ork 7 cm in cement mortar (1:3). | 100 sqm | 9.23 |
| 6.9& 6.10 | | ork in plain & gauged arches in cement mortar (1:3). | cum | 1.28 |
| | HALF B | RICK MASONRY | | |
| 6.12& 6.13 | Half bric | k masonry in foundations & plinth and superstructure. | | |
| | 6.12.1 & 6.13.1 | Cement mortar 1:3 (1 cement : 3 coarse sand) | 100 sqm | 14.28 |
| | 6.12.2 & 6.13.2 | Cement mortar 1:4 (1 cement : 4 coarse sand) | 100 sqm | 10.64 |
| | BRICK | TILE WORK | | |
| 6.16 | ile brick | masonry in foundation and plinth. : | | |
| | 6.16.1 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 1.52 |
| | 6.16.2 | Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 1.00 |
| 6.17& | Tile brick | k masonry with m/c moulded tiles in cement mortar | | |
| 6.18 | • | ement : 6 coarse sand). | cum | 1.00 |
| 6.20 & | | k masonry with tile bricks in plain/gauged arches | | 1.00 |
| 6.21 | | n cement mortar (1:4). | cum | 1.33 |
| 6.22 | i iie bric | k masonry work 5 cm thick in cement mortar (1:3). | 100 sqm | 7.65 |

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|-----------------------|--|-----------|---|
| | HONEY | COMB WORK | | · · · · · |
| 6.23 | Honey-c | comb brick work 10/11.4 cm thick in cement mortar 1:4. | 100 sqm | 6.56 |
| | EXPOSE | ED BRICK WORK | | |
| 6.26 | Brick wo | ork with selected bricks in cement mortar (1:6). | cum | 0.625 |
| 6.27 | Brick wo | rk with modular bricks in cement mortar (1:6). | cum | 0.55 |
| 6.28 | Brick wo mortar (1 | rk with machine moulded modular bricks in cement 1:6). | cum | 0.55 |
| 6.29 | Brick wo mortar (1 | ork with m/c moulded F.P.S. bricks in cement (1:6). | cum | 0.625 |
| 6.30 | | ork with machine moulded perforated F.P.S. bricks in mortar (1:6). | cum | 0.625 |
| 6.31 | | rk with machine moulded perforated modular bricks in mortar (1:6). | cum | 0.55 |
| 6.32 | Brick wo | ork with clay flyash F.P.S. brick. | | |
| | 6.32.1 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 0.95 |
| | 6.32.2 | Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 0.625 |
| 6.34 | Brick wo | ork with non modular fly ash lime bricks (FALG Bricks) | in : | |
| | 6.34.1 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 0.95 |
| | 6.34.2 | Cement mortar 1:6 (1 cement : 6 Coarse sand) | cum | 0.625 |
| 6.35 | Brick wo moulded | rk with modular calcium silicate bricks machine I in : | | |
| | 6.35.1 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 0.836 |
| | 6.35.3 | Cement mortar 1:6 (1 cement : 6 Coarse sand) | cum | 0.55 |
| 6.36 | Brick wo bricks in | rk with modular extruded burnt fly ash clay sewer : | | |
| | 6.36.1 | Cement Mortar 1:4 (1 cement : 4 coarse sand) | cum | 0.836 |
| 6.37 | | rk with modular extruded burnt fly ash clay sewer cement mortar (1:3). | cum | 1.275 |
| 6.38 | | ved aerated cement blocks masonry with 100mm C blocks in cement mortar (1:4). | cum | 0.57 |
| 6.44 | Brick ed | ging 7 cm wide in cement mortar (1:4). | 100 metre | 0.137 |
| 6.45 | Half bric | k masonry with non modular FALG bricks. | | |
| | 6.45.1 | Cement mortar 1:3 (1 cement :3 coarse sand). | 100 sqm | 14.28 |
| | 6.45.2 | Cement mortar 1:4 (1 cement :4 coarse sand). | 100 sqm | 10.64 |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 7.0 STONE WORK

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|---------------|--|---------------|---|
| | RANDOM RUBBLE MASONRY | | |
| 7.1& | Random rubble masonry with cement mortar (1:6). | cum | 0.825 |
| 7.2 | COURSED RUBBLE MASONRY | | |
| 7.6 | Coursed rubble masonry (first sort) with: | | |
| | 7.6.1 Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 0.750 |
| 7.7 | Coursed rubble masonry (second sort) with: | | |
| | 7.7.1 Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 0.750 |
| | ASHLAR MASONRY | | |
| 7.12 | Stone work in plain ashlar in cement mortar (1:6) including pointing with white cement mortar (1:2). | cum | 0.54 |
| 7.13& 7.14 | Stone work plain ashlar in arches/domes in cement mortar (1:3 including pointing with white cement mortar (1:2). | cum | 1.07 |
| 7.15 | Stone work ashlar punched in cement mortar 1:6) including pointing with white cement mortar (1:2). | cum | 0.54 |
| | SUNK, MOULDED, CARVED ASHLAR MASONRY | | |
| 7.20 | Stone work sunk and / or moulded including pointing with white cement mortar (1:2). | cum | 0.54 |
| | MISCELLANEOUS STONE WORK | | |
| 7.23 | Stone work (machine cut edges) for wall lining etc. (veneer work in cement mortar (1:3) including pointing in white cement mortar (1:2). | k) 100 sqm | 9.18 + 1.56* |
| 7.25 | P/F stainless steel cramps in stone wall lining in cement mortar (1:2). | kg | 0.07 |
| 7.26 | P/F stone dowels 10x5x2.50 cm in cement mortar (1:2) . | each | 0.007 |
| 7.27 | P/F copper pins 7.5 cm long 6 mm diameter in stone wall lining in cement mortar (1:2). | each | 0.007 |
| 7.28 | P/F sloping chajja of stone 40 mm thick and upto 80 cm wide i cement mortar (1:4) i/c pointing in white cement mortar (1:2). | n 100 sqm | 5.59 |
| 7.29 | P/F horizontal chajja of stone 40 mm thick and upto 80 cm projection in cement mortar (1:4) i/c pointing in white cement mortar (1:2). | 100 sqm | 4.94 + 0.03* |
| 7.30 | P/F 30 mm red sand stone sun-shade with cement mortar 1:4 including finishing complete. | 100 sqm | 2.19 |
| 7.31 | Providing and fixing red sand stone brackets 55x22.5x45cm. | 100nos | 3.02 |

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|---|---------|---|
| 7.32 | Stone work, plain in copings, cornices, string courses etc. in Cement mortar 1:6 including pointing with white cement mortar (1:2). | cum | 0.54 |
| 7.36 | Wall lining butch work with Dholpur stone 40 mm thick, in cement mortar (1:3) including ruled pointing in cement mortar (1:2). | 100 sqm | 15.50 +1.70* |
| 7.37 | Stone work (machine cut edges) for wall lining with grout of 12 mm thick in cement mortar (1:3) and jointed with Cement mortar (1:2). | 100 sqm | 13.744 |
| 7.38 | Stone tile work for wall lining with 12 mm thick bed in cement mortar (1:3). | sqm | 10.44 + 1.70* |
| | STONE WORK IN DRY CLADDING | | |
| 7.41 | P/F structural steel frame (for dry stone cladding) embedded in brick wall with cement concrete block (1:2:4) | 100kg | 1.05 |

^{*} White cement

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 8.0 MARBLE & GRANITE WORK

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|-----------|--|----------|---|
| 8.1 | | work 18 mm thick for wall lining in cement mortar 1:3 100 g pointing with white cement mortar 1:2. |) sqm | 8.67 + 1.70* |
| 8.2 | prepolis | m thick gang saw cut mirror polished premoulded and hed) machine cut for kitchen platforms, vanity counters laid over 20mm thick base cement mortar 1:4. | sqm | 9.12 |
| 8.4 | ponding | fixing marble /granite stone over and above corresbasic item, in facia and drops of width upto 150 mm xy 100 resin based adhesive including cleaning etc. e. | metre | 1.27 |
| 8.7 | P/F cran | nps in RCC/ CC backing with cement mortar 1:2. | | |
| | 8.7.1 | Gunmetal cramps | kg | 0.0635 |
| | 8.7.2 | Stainless steel cramps | kg | 0.0701 |
| 8.9 | mortar (| e work for wall lining over 12mm thick bed of cement 1:3) and cement slurry @ 3.3 kg/sqm including pointing hite cement complete. | sqm | 10.44 + 1.90* |
| 8.11 | | hine cut mirror/edge polished | 100 sqm. | |
| 8.12 | | | | |
| | | ed finish granite stone flooring | 100 sqm. | |
| 8.13 | P/L polis | shed granite stone | 100 sqm. | 13.50 |

^{*} White cement

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 9.0 WOOD AND P.V.C. WORK

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|--------------|---|-----------|---|
| | MISCELLANEOUS - WOOD WORK | | |
| 9.32 | P/F 50x50x50 mm 2nd class teak wood plugs in cement mortar 1:3. | 100 nos. | 0.01 |
| 9.34 9.46 | P/F 2nd class teak wood plain lining with wooden plugs. P/F curtain rods of 1.25 mm thick chromium plated brass brackets with wooden plugs, etc. | 100 sqm | 0.055 |
| 9.47 | Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets. | 100 metre | 0.01 |
| 9.53 | Providing 40x5 mm flat iron hold fast 40 cm long with cement concrete block 30x10x15cm 1:3:6 mix. | 100 nos | 1.10 |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 10.0 MARBLE & GRANITE WORK

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|----------------------|---|---------|---|
| 10.4 | P/F 1 mm thick M.S. sheet sliding-shutters with frame. | 100 sqm | 0.35 |
| 10.5 | P/F 1 mm thick M.S. sheet door with frame. | 100 sqm | 0.35 |
| 10.6 | Supplying and fixing rolling shutters. | 100 sqm | 0.35 |
| 10.10.1 & 10.11.1 | Fixing standard steel glaze door windows etc. | 100 kg | 0.13 |
| 10.13.1 | P/F 'T' iron froms for doors windows & ventilators | 100 kg | 0.11 |
| 10.15 | Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with 15x3 mm lugs 10 cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 mix. | 100 kg | 0.28 |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 11.0 FLOORING

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|-----------|--|------|---|
| 11.1 | Brick on | edge flooring. | | |
| | 11.1.1 | 1:4 (1 cement : 4 coarse sand) | sqm | 0.1850 |
| | 11.1.2 | 1:6 (1cement : 6 coarse sand) | sqm | 0.1285 |
| 11.3 | Cement | concrete flooring 1:2:4. | | |
| | 11.3.1 | 40mm thick with 20mm nominal size stone aggregate | sqm | 0.17 |
| 11.4 | 52 mm th | nick cement concrete flooring. | sqm | 0.231 |
| 11.5 | 62 mm th | nick cement concrete flooring. | sqm | 0.263 |
| 11.6 | Cement | plaster skirting with cement mortar (1:3). | sqm | 0.14 |
| 11.7 | Cement | concrete pavement with C.C. (1:2:4). | cum | 3.20 |
| | TERRAZ | O FLOORING | | |
| 11.9 | | nick marble chips flooring with under layer 34 mm nent concrete (1:2:4). | | |
| | 11.9.1 | Dark shade pigment with ordinary cement | sqm | 0.1695 |
| | 11.9.2 | Light shade pigment with white cement | sqm | 0.129+0.0405* |
| | 11.9.3 | Medium shade pigment with 50% white cement and 50% ordinary cement | sqm | 0.1492+0.0202* |
| | 11.9.4 W | hite cement without any pigment | sqm | 0.129+0.0202* |
| | 11.9.5 Li | ght shade pigment with ordinary cement | sqm | 0.1695 |
| | 11.9.6 O | rdinary cement without any pigment | sqm | 0.1695 |
| 11.10 | | nick marble chips flooring with under layer 31mm thick concrete 1:2:4. | | |
| | 11.10.1 | Dark shade pigment with Ordinary cement | sqm | 0.1783 |
| | 11.10.2 | Light shade pigment with white cement | sqm | 0.1205+0.0578* |
| | 11.10.3 | Medium shade pigment with 50% white cement and 50% ordinary cement | sqm | 0.1494+0.0289* |
| | 11.10.4 | White cement without any pigment | sqm | 0.1205+0.0578* |
| | 11.10.5 | Light shade pigment with ordinary cement | sqm | 0.1783 |
| | 11.10.6 | Ordinary cement without any pigment | sqm | 0.1783 |
| 11.11 | | nick marble chips flooring with under layer 28 mm thick concrete 1:2:4. | | |
| | 11.11.1 | Dark shade pigment with ordinary cement | sqm | 0.1907 |
| | 11.11.2 | Light shade pigment with white cement | sqm | 0.1097+0.081* |
| | 11.11.3 | Medium shade pigment with 50% white cement and 50% ordinary cement | sqm | 0.1502+0.0405* |
| | 11.11.4 | White cement without any pigment | sqm | 0.1097+0.081* |

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|--|---|------|---|
| | 11.11.5 | Light shade pigment with ordinary cement | sqm | 0.1097 |
| | 11.11.6 | Ordinary cement without any pigment | sqm | 0.1097 |
| 11.12 | Marble ch | nips skirting : | | |
| | 11.12.1 | 18 mm thick with under layer 12 mm thick in cement plaster 1:3 (1 cement : 3 coarse sand) : | | |
| | 11.12.1.1 | Dark shade pigment with ordinary cement | sqm | 0.1292 |
| | 11.12.1.2 | Light shade pigment with white cement | sqm | 0.0887+0.0405* |
| | 11.12.1.3 | Medium shade pigment with 50% white cement and 50% ordinary cement | sqm | 0.109+0.0203* |
| | 11.12.1.4 | White cement without any pigment | sqm | 0.109+0.0405* |
| | 11.12.1.5 | Light shade pigment with ordinary cement | sqm | 0.1292 |
| | 11.12.1.6 | Ordinary cement without any pigment | sqm | 0.1292 |
| 11.15 | Crazy ma | rble stone flooring. | | |
| | 11.15.1 | 18 mm thick crazy marble stone white, black or as specified * White Cement | sqm | 0.1200+0.0405* |
| | TILE FLO | ORING | | |
| 11.16 | | errazo tiles 22mm thick in floors, and landings on ck bed of cement mortar (1:4). | | |
| | 11.16.1 | Light shade using white cement | sqm | 0.0895+0.044* |
| | 11.16.2 | Medium shade using 50%white cement and | | |
| | | 50% ordinary cement | sqm | 0.0917+0.0220* |
| | 11.16.3 | Dark shade using ordinary cement | sqm | 0.0939 |
| | 11.16.4 | Ordinary cement without any pigment | sqm | 0.0939 |
| 11.18 | Precast to of steps. | errazo tiles 22 mm thick in skirting and risers | | |
| | 11.18.1 | Light shade using white cement. | sqm | 0.0734+0.066* |
| | 11.18.2 | Medium shades using 50% white cement and 50% ordinary cement. | sqm | 0.1064+0.033* |
| | 11.18.3 | Dark shade using ordinary cement | sqm | 0.1394 |
| | 11.18.4 | Ordinary cement without any pigment | sqm | 0.1394 |
| 11.19 | Chequered terrazo tiles 22 mm thick in floors on 20 mm thick bed of cement mortar (1:4). | | | |
| | 11.19.1 | Light shade using white cement | sqm | 0.0895+0.044* |
| | 11.19.2 | Medium shade using 50% white cement, 50% ordinary cement | sqm | 0.0917+0.024* |
| | 11.19.3 | Dark shade using ordinary cement | sqm | 0.0939 |
| | 11.19.4 | Ordinary cement without any pigment | sqm | 0.0939 |

| vad myaaaat aamant aanayata tilaa 00 mm thiak in | | per unit quantity of work (Quintals) |
|---|---|--|
| red precast cement concrete tiles 22 mm thick in on 20 mm thick bed of cement mortar (1:4). | | |
| Light shade using white cement | sqm | 0.1291+0.066* |
| Medium shade using 50% white cement 50% Grey cement | sqm | 0.1621+0.033* |
| Dark shade using ordinary cement | sqm | 0.1951 |
| Ordinary cement without any pigment | sqm | 0.1951 |
| and fixing 10mm thick acid and or alkali resistant tiles. | | |
| In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) | | |
| Acid and alkali resistant tile | sqm | 0.0786** |
| In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) | | |
| Acid and alkali resistant tile | sqm | 0.0862** |
| | sqm | 0.1044 |
| FLOORING | · | |
| | sqm | 0.13512 |
| ONE FLOORING | | |
| | sqm | 0.1491 |
| | sqm | 0.1374 |
| TONE FLOORING | | |
| | sqm | 0.0775 |
| e of cement mortar 1:5 including pointing with | sqm | 0.0931 |
| ement mortar 1:5 with joints 3mm thick, side buttered | sqm | 0.0931 |
| C GLAZED TILES | | |
| , | sqm | 0.1044 |
| <u> </u> | sqm | 0.1242 |
| | Medium shade using 50% white cement 50% Grey cement Dark shade using ordinary cement Ordinary cement without any pigment g and fixing 10mm thick acid and or alkali resistant tiles. In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) Acid and alkali resistant tile In dado/skirting on 12 mm thick mortar 1:4 | Medium shade using 50% white cement 50% Grey cement sqm Dark shade using ordinary cement sqm Ordinary cement without any pigment sqm sqm g and fixing 10mm thick acid and or alkali resistant tiles. In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) I Acid and alkali resistant tile In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand) I Acid and alkali resistant tile In dado/skirting, risers of steps etc. with 8 mm thick le. FLOORING It is skirting, risers of steps etc. with 8 mm thick le. FLOORING It ne slab flooring with 18 mm thick marble stone over nick cement mortar (1:4). FONE FLOORING In e slab flooring over 20 mm thick bed of cement sqm (average) thick cement mortar 1:3. TONE FLOORING Inck fine dressed stone flooring over 20 mm (average) see of cement mortar 1:5 with joints finished flush. Inck fine dressed stone flooring over 20 mm (average) see of cement mortar 1:5 with joints finished flush. Inck fine dressed stone flooring over 20 mm (average) see of cement mortar 1:5 including pointing with mortar 1:2. Inck rubbed stone flooring over 20 mm (average) thick rement mortar 1:5 with joints 3mm thick, side buttered tent mortar 1:5. Inck came the came to the come to the come to the came the came to t |

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-----------------|--|------|---|
| 11.38 | P/L ceramic glazed floor tiles laid on 20mm thick bed of Cement Mortar (1:4). | sqm | 0.1242 |
| 11.39& 11.40 | P/L rectified Glazed Ceramic floor tiles laid on 20mm thick cement mortar (1:4). | sqm | 0.1242 |
| | VITRIFIED FLOOR TILES | | |
| 11.41 | P/L vitrified floor tile laid on 20mm thick cement mortar (1:4). | sqm | 0.1242 |
| 11.44 | Crazy ceramic tile flooring. | sqm | 0.0646 |
| 11.46 | P/L vitrified tile in skirting in cement mortar (1:3). | sqm | 0.088 |
| 11.51 | P/L Machine cut, Mirror polished, Italian Marble stone flooring | Sqm. | 0.085 + 0.05* |
| 11.52 | P/L Machine cut Mirror polished Marble stone flooring | Sqm. | 0.085 + 0.05* |

^{*} White cement

^{**} Acid alkali resistant cement.

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 12.0 ROOFING

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|---|---------|---|
| 12.16 | 10 cm thick mud phaska with flat tile bricks grouted with cement mortar (1:3). | 100 sqm | 3.11 |
| 12.17 | 10cm thick mud phaska with machine moulded tile bricks grouted with cement mortar (1:3). | 100 sqm | 3.11 |
| 12.19 | Providing and laying brick tiles over mumty roofs grouted with cement mortar (1:3). | 100 sqm | 9.13 |
| 12.20 | Providing and laying pressed clay tiles on roofs jointed with cement mortar (1:4). | 100 sqm | 9.92 |
| 12.21 | Providing gola 75x75 mm in cement concrete (1:2:4). | metre | 0.031 |
| 12.22 | Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete (1:2:4). | each | 0.06 |
| 12.23 | Providing sand stone slab for roofing and laying cement mortar (1 : 4). | 100 sqm | 0.74 |
| 12.38 | Providing and fixing M.S. holder bat clamps in cement concrete blocks 10x10x10cm of 1:2:4 mix. | each | 0.005 |
| 12.55 | P/F heat resistant tile on roof with cement mortar (1:4) and filling joints with white cement marble mix. | sqm | 0.1367 |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 13.0 FINISHING

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|---------------------|---|---------|---|
| | CEMEN | T PLASTER (IN FINE SAND) | | |
| 13.1 | 12 mm c | ement plaster: | | |
| | 13.1.1 | 1:4 (1 cement : 4 fine sand) | 100 sqm | 5.47 |
| | 13.1.2 | 1:6 (1 cement : 6 fine sand) | 100 sqm | 3.60 |
| 13.2 | 15 mm c | ement plaster: | | |
| | 13.2.1 | 1:4 (1 cement : 4 fine sand) | 100 sqm | 6.54 |
| | 13.2.2 | 1:6 (1 cement : 6 fine sand) | 100 sqm | 4.30 |
| 13.3 | 20 mm c | cement plaster: | | |
| | 13.3.1 | 1:4 (1 cement : 4 fine sand) | 100 sqm | 8.51 |
| | 13.3.2 | 1:6 (1 cement : 6 fine sand) | 100 sqm | 5.60 |
| | CEMEN | T PLASTER (IN COARSE SAND) | | |
| 13.4 | 12 mm c | cement plaster : | | |
| | 13.4.1 | 1:4 (1 cement : 4 coarse sand) | 100 sqm | 5.47 |
| | 13.4.2 | 1:6 (1 cement : 6 coarse sand) | 100 sqm | 3.60 |
| 13.5 | 15 mm c | cement plaster : | | |
| | 13.5.1 | 1:4 (1 cement : 4 coarse sand) | 100 sqm | 6.54 |
| | 13.5.2 | 1:6 (1 cement : 6 coarse sand) | 100 sqm | 4.30 |
| 13.6 | 20 mm c | cement plaster : | | |
| | 13.6.1 | 1:4 (1 cement : 4 coarse sand) | 100 sqm | 8.51 |
| | 13.6.2 | 1:6 (1 cement : 6 coarse sand) | 100 sqm | 5.60 |
| | CEMEN NEAT CI | T PLASTER WITH A FLOATING COAT OF EMENT | | |
| 13.7 | 12 mm c neat cer | rement plaster finished with a floating coat of ment: | | |
| | 13.7.1 | 1:3 (1 cement : 3 fine sand) | 100 sqm | 9.54 |
| | 13.7.2 | 1:4 (1 cement : 4 fine sand) | 100 sqm | 7.67 |
| 13.8 | 15 mm c neat cer | ement plaster finished with a floating coat of nent: | | |
| | 13.8.1 | 1:3 (1 cement : 3 fine sand) | 100 sqm | 10.97 |
| | 13.8.2 | 1:4 (1 cement : 4 fine sand) | 100 sqm | 8.74 |
| 13.9 | Cement neat cen | plaster (1:3) finished with a floating coat of | · | |
| | 13.9.1 | 12 mm Cement Plaster | 100 sqm | 9.54 |
| | 13.9.2 | 20 mm Cement Plaster | 100 sqm | 13.62 |

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|--|--------------------------|---|
| 13.10 | 15 mm cement plaster (1:3) finished with a floating coat of neat cement. | 100 sqm | 10.97 |
| | CEMENT PLASTER IN TWO COATS | | |
| 13.11 | 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 finished with a top layer 6mm thick cement plaster 1:6. | 100 sqm | 6.26 |
| 13.12 | 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 and a top layer 6mm thick cement plaster (1:3). | 100 sqm | 8.13 |
| 13.13 | 12 mm cement plaster 1:2 (1 cement : 2 stone dust). | 100 sqm | 9.79 |
| 13.14 | 15 mm cement plaster 1:2 (1 cement : 2 stone dust). | 100 sqm | 11.70 |
| 13.15 | 20 mm cement plaster 1:2 (1 cement : 2 stone dust). | 100 sqm | 15.23 |
| | 6 MM CEMENT PLASTER | | |
| 13.16 | 6 mm cement plaster of mix : | | |
| | 13.16.1 1:3 (1 cement : 3 fine sand) | 100 sqm | 3.67 |
| 13.17 | 6 mm cement plaster (1:3) finished with a floating coat of neat cement. | 100 sqm | 5.87 |
| 13.18 | Neat cement punning | 100 sqm | 2.20 |
| | ROUGH CAST PLASTER | • | |
| 13.19 | Rough cast plaster in two layers, under layer 12 mm cement plaster (1:4) and top layer 10mm cement plaster (1:3). | 100 sqm | 11.59 |
| | PEBBLE DASH PLASTER | | |
| 13.20 | Pebble dash plaster in two layers, under layer 12mm cement plaster 1:4 and top layer 10mm cement plaster with cement mortar (1:3). | 100 sqm | 11.59 |
| | PLAIN CEMENT MORTAR BANDS | | |
| 13.28 | 12 mm thick plain cement mortar bands in cement mortar (1:4) : (Flush /Sunk / Raised / Moulded Band). | 100 metre 1cm wide | |
| 13.29 | 18 mm thick plain cement mortar band in cement mortar (1:4). | 100 metre 1cm wide | |
| 13.30 | 18 mm thick moulded cement mortar band in two coats under layer 12mm thick with cement mortar 1:5, top layer 6mm thick with cement mortar (1:4). | 100 metre 1cm wide | 0.07 |
| | POINTING OF BRICK WORK | | |
| 13.31 | Pointing on brick work with cement mortar (1:3): | | |
| | 13.31.1 Flush / Ruled/ Struck or weathered pointing | 100 sqm | 1.53 |
| | 13.31.2 Raised and cut pointing | 100 sqm | 2.04 |

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|-----------------------|--|---------|---|
| | POINTIN | IG ON TILE BRICK WORK | | |
| 13.32 | Pointing | on tile brick work with cement mortar (1:3). | | |
| | 13.32.1 | Flush/ Ruled/ Struck or weathered pointing | 100 sqm | 2.35 |
| | POINTIN | IG ON STONE WORK | | |
| 13.33 | Pointing | on stone work with cement mortar (1:3). | | |
| | 13.33.1 | Flush/ Ruled pointing | 100 sqm | 1.17 |
| | 13.33.2 | Raised and cut pointing | 100 sqm | 2.35 |
| 13.34 | Raised a mortar (1 | nd cut pointing on stone work in white cement :3). | 100 sqm | 2.35* |
| 13.35 | Pointing | on stone slab ceiling with cement mortar (1:2). | 100 sqm | 1.02 |
| 13.72 | under lay | stone grit plaster on exterior walls in two layers, ver 12mm cement plaster (1:4), top layer 15mm plaster 1:1/2:2. | 100 sqm | 17.472 |
| | | ement consumption for pointing is same for & non modular bricks. | | |

^{*} White cement

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 14.0 REPAIR TO BUILDING

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|--|----------------|---|
| 14.1 | Repairs to plaster of thickness 12 mm to 20 mm in patcl with cement mortar 1:4. | hes 100 sqm | 6.95 |
| 14.2 | Fixing chowkhats in existing opening with hold fasts in cement concrete blocks with cement concrete 1:3:6. | | |
| | 14.2.1 Door chowkhats | each | 0.12 |
| | 14.2.2 Window chowkhats | each | 0.06 |
| | 14.2.3 Clerestory window chowkhats | each | 0.03 |
| 14.12 | Providing and fixing 16 mm M.S. Fan clamps in existing R.C.C. slab. | each | 0.016 |
| 14.13 | Regrading terracing of mud phaska to proper slope. | 100 sqm | 3.11 |
| 14.14 | Replacing sand stone slabs in roofing in cement mortar | 1:4. 100 sqm | 0.78 |
| 14.15 | Renewing wooden battens in roofs & making good the ho in walls. | oles cum | 0.36 |
| 14.16 | Renewing wooden beams in roofs & making good the ho in walls. | les cum | 0.13 |
| 14.18 | Flush pointing with cement mortar 1:3 for flat tile bricks of top of mud phaska. | on 100 sqm | 0.76 |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 16.0 ROAD WORK

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|--|-----------|---|
| | FENCING | | |
| 16.23 | P/F boundary stone including finishing smooth with cement mortar (1:3). | each | 0.082 |
| 16.24 | P/F precast R.C.C. kilometre stone including finishing smooth in cement mortar (1:3). | | |
| | 16.24.1 35x111x25 cm size | each | 0.37 |
| | 16.24.2 50x152.5x25 cm size | each | 0.698 |
| | 16.24.3 35x93.5x18 cm size | each | 0.23 |
| | CONCRETE PAVEMENT | | |
| 16.42 | Cement concrete (1:2:4) in pavements. | cum | 3.20 |
| 16.43 | Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix. | cum | 3.40 |
| | MISCELLANEOUS | | |
| 16.49 | Making bell mouth opening including providing cement concrete (1:3:6) & plastering with cement mortar (1:3). | 10 nos | 6.60 |
| 16.52 | Providing and fixing precast lime fly ash concrete blocks including finishing with 10mm thick cement mortar (1:3), in | | 0.05 |
| 10.00 | foot paths. | sqm | 0.05 |
| 16.63 | P/L kerb channel 30cm wide and 50mm thick of cement | motro | 0.11 |
| 16.67 | concrete (1:3:6). Providing and fixing factory made RCC pavement slab of M-30 grade in footpath over a bed of 20mm average thick cement | metre | 0.11 |
| | mortar (1:5). | 100 sqm | 7.75 |
| 16.69 | Providing and laying factory made kerb stone of M-25 grade | 100 04111 | 7.70 |
| | jointed with cement mortar (1:3). | cum | 0.05 |
| 16.75 | Providing and laying C.C. pavement of mix M-25 with ready | | |
| | mixed concrete. | cum | 3.30 |
| 16.80 | Dry lean cement concrete sub base. | cum | 1.50 |
| 16.85 | Laying old kerb stones, jointed with cement mortar (1:3). | 100 metre | 0.3723 |
| 16.86 | P/L gang saw cut 18 mm thick, morror polished | sqm. | 0.09 |
| 16.87 | P/L gang saw cut 30 mm thick mirror polished | sqm. | 0.09 |
| 16.88 | P/L Matt finished vitrified tile of size | sqm. | 0.12 |
| 16.89 | P/L Matt finished vitrifid tile of size | sqm. | 0.12 |
| 16.90 | P/L tactile tile | sqm. | 0.12 |
| 16.92 | P/F 10x10x7.5 cm. granite stone block | sqm. | 1.85 |
| 16.93 | Providing and Placing in position 100mm thick precast RCC covers on drain of footpath | sqm. | 0.352 |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 17.0 SANITARY INSTALLATIONS

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|------------------|---|---|------|---|
| 17.1/17. 17.3 | | ndian European type W.C. pan. | each | 0.05 |
| 17.4 | • | rhite vitreous china urinal basin : | odon | 0.00 |
| ., | 17.4.1 | One urinal basin with 5 litre white P.V.C. automatic flushing cistern | each | 0.025 |
| | 17.4.2 | Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern | each | 0.04 |
| | 17.4.3 | Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern | each | 0.067 |
| | 17.4.4 | Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern | each | 0.095 |
| 17.5 | Fixing w | hite vitreous china flat back half stall urinal : | | |
| | 17.5.1 | Single half stall urinal with 5 litre P.V.C. automatic flushing cistern | each | 0.051 |
| | 17.5.2 | Range of two half stall urinals with 5 litre P.V.C. automatic flushing cistern | each | 0.102 |
| | 17.5.3 | Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern | each | 0.153 |
| | 17.5.4 | Range of four half stall urinals with 10 litre P.V.C. automatic flushing cistern | each | 0.203 |
| 17.6 | Fixing or | ne piece construction white vitreous china squatting plate | e: | |
| | 17.6.1 | Single squatting plate with 5 litre P.V.C. automatic flushing cistern | each | 0.051 |
| | 17.6.2 | Range of two squatting plates with 5 litre P.V.C. automatic flushing cistern | each | 0.102 |
| | 17.6.3 | Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern | each | 0.153 |
| | 17.6.4 | Range of four squatting plates with 10 litre P.V.C. automatic flushing cistern | each | 0.203 |
| 17.7 | Fixing w | rash basin with C.I. brackets. | each | 0.025 |
| 17.8 | Fixing w | hite vitreous china pedestal for wash basin. | each | 0.016* |
| 17.9 | Fixing ki | itchen sink with C.I. brackets. | each | 0.025 |
| 17.10 | Fixing kitchen sink with C.I. brackets. | | each | 0.025 |
| 17.11 | Fixing kitchen sink with C.I. brackets. | | each | 0.025 |
| 17.12 | Fixing d | raining board with C.I. brackets. | each | 0.014 |

| Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|--|---|---|
| Fixing White vitreous china water closet squatting pan. | each | 0.025 |
| Fixing a pair of white vitreous china foot rests. | each | 0.025 |
| Fixing white vitreous china flat urinal basin. | each | 0.01 |
| Fixing white vitreous china squatting plate urinal. | each | 0.02 |
| Fixing white vitreous china wash basin. | each | 0.015 |
| Fixing kitchen sink. | each | 0.015 |
| Fixing kitchen sink. | each | 0.015 |
| Providing and fixing M.S. holder-bat clamps. | each | 0.005 |
| Providing and fixing M.S. stays and clamps. | each | 0.005 |
| Providing and fixing trap of self-cleansing design. | each | 0.025 |
| Cutting chases in brick masonry walls for sand cast iron centrifugally cast (spun) iron pipes and making good the same with C.C.(1:3:6). | | |
| 17.61.1 100 mm dia | 100 metre | e 5.40 |
| 17.61.2 75 mm dia | 100 metre | 3.70 |
| 17.61.3 50 mm dia | 100 metre | 1.87 |
| | Fixing White vitreous china water closet squatting pan. Fixing a pair of white vitreous china foot rests. Fixing white vitreous china flat urinal basin. Fixing white vitreous china squatting plate urinal. Fixing white vitreous china wash basin. Fixing kitchen sink. Fixing kitchen sink. Providing and fixing M.S. holder-bat clamps. Providing and fixing trap of self-cleansing design. Cutting chases in brick masonry walls for sand cast iron centrifugally cast (spun) iron pipes and making good the same with C.C.(1:3:6). 17.61.1 100 mm dia 17.61.2 75 mm dia | Fixing White vitreous china water closet squatting pan. Fixing a pair of white vitreous china foot rests. Fixing white vitreous china flat urinal basin. Fixing white vitreous china squatting plate urinal. Fixing white vitreous china wash basin. Fixing white vitreous china wash basin. Fixing kitchen sink. Fixing kitchen sink. Providing and fixing M.S. holder-bat clamps. Providing and fixing M.S. stays and clamps. Providing and fixing trap of self-cleansing design. Cutting chases in brick masonry walls for sand cast iron/centrifugally cast (spun) iron pipes and making good the same with C.C.(1:3:6). 17.61.1 100 mm dia 100 metre 17.61.2 75 mm dia 100 metre 17.61.2 75 mm dia 100 metre 17.61.2 100 |

^{*} White Cement.

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 18.0 WATER SUPPLY

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|--------------------------|--|----------------------------------|---|
| 18.1/18.4/ | Providing and fixing G.I./ PE-AL-PE | / PP-R pipes. | |
| 18.7/18.10 | Internal work - Exposed on wall | | |
| | 18.10.1 15 mm dia nominal bore | e 100 metre | 0.05 |
| | 18.10.2 20 mm dia nominal bore | e 100 metre | 0.06 |
| | 18.10.3 25 mm dia nominal bore | e 100 metre | 0.07 |
| | 18.10.4 32 mm dia nominal bore | e 100 metre | 0.075 |
| | 18.10.5 40 mm dia nominal bore | e 100 metre | 0.08 |
| | 18.10.6 50 mm dia nominal bore | e 100 metre | 0.08 |
| 18.2/18.5/ 18.8/18.11 | P/F concealed pipes. | 100 metre | 9 0.88 |
| 18.32 | Constructing masonry Chamber 30: stop cock. | x30x50 cm, for each | 0.26 |
| 18.33 | Constructing masonry Chamber 60: sluice valve. | x60x75 cm, for each | 1.44 |
| 18.34 | Constructing masonry Chamber 90: sluice valve. | x90x100 cm, for each | 2.48 |
| 18.35 | Constructing masonry Chamber 120 sluice valve. | 0x120x100 cm, for each | 3.50 |
| 18.36 | Constructing masonry Chamber 602 hydrants. | x60x75 cm, for fire each | 1.30 |
| 18.37 | Constructing masonry Chamber 602 water meter. | x45x50 cm, for each | 1.34 |
| 18.76 | Cutting holes up to 30x30 cm in wa good the same. | lls including making 100 nos. | 2.92 |
| 18.77 | Cutting holes up to 15x15 cm in R.C and repairing the hole after insertion with cement concrete (1:2:4). | | 0.70 |
| 18.78 | Making chases up to 7.5x7.5 cm in | | |
| 18.79 | Making hole up to 20x20 cm and en 150 mm diameter in masonry and fi concrete (1:3:6). | nbedding pipes up to | |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 19.0 DRAINAGE

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|----------------------|--|-----------|---|
| 19.1 | _ | glazed stoneware pipes with stiff mixture of cement the proportion of (1:1). | | |
| | 19.1.1 | 100 mm diameter | 100 metre | 2.17 |
| | 19.1.2 | 150 mm diameter | 100 metre | 3.23 |
| | 19.1.3 | 200 mm diameter | 100 metre | 4.33 |
| | 19.1.5 | 250 mm diameter | 100 metre | 5.40 |
| | 19.1.6 | 300 mm diameter | 100 metre | 6.47 |
| 19.2 | Laying c | ement concrete (1:5:10) alround S.W. pipes: | | |
| | 19.2.1 | 100 mm diameter S.W. pipe | 100 metre | 19.24 |
| | 19.2.2 | 150 mm diameter S.W. pipe | 100 metre | 23.53 |
| | 19.2.3 | 200 mm diameter S.W. pipe | 100 metre | 27.43 |
| | 19.2.5 | 250 mm diameter S.W. pipe | 100 metre | 31.72 |
| 19.3 | Laying c S.W. pip | ement concrete (1:5:10) upto haunches of pes: | | |
| | 19.3.1 | 100 mm diameter S.W. pipe | 100 metre | 9.14 |
| | 19.3.2 | 150 mm diameter S.W. pipe | 100 metre | 14.82 |
| | 19.3.3 | 200 mm diameter S.W. pipe | 100 metre | 17.42 |
| | 19.3.5 | 250 mm diameter S.W. pipe | 100 metre | 20.28 |
| | 19.3.6 | 300 mm diameter S.W. pipe | 100 metre | 23.40 |
| 19.4 | Providin | g and fixing square-mouth S.W. gully trap : | | |
| | 19.4.1 | 100x100 mm size P type | each | 0.27 |
| | 19.4.2 | 150 x 100 mm size P type. | each | 0.26 |
| | 19.4.3 | 180x150 mm size P type | each | 0.25 |
| 19.6 P/L | | ss R.C.C. pipes with collars jointed with ure of cement mortar in the proportion of (1:2): | | |
| | 19.6.1 | 100 mm dia. R.C.C. pipe | 100 metre | 0.50 |
| | 19.6.2 | 150 mm dia. R.C.C. pipe | 100 metre | 0.60 |
| | 19.6.3 | 250 mm dia. R.C.C. pipe | 100 metre | 0.90 |
| | 19.6.4 | 300 mm dia. R.C.C. pipe | 100 metre | 1.10 |
| | 19.6.5 | 450 mm dia. R.C.C. pipe | 100 metre | 2.40 |
| | 19.6.6 | 500 mm dia. R.C.C. pipe | 100 metre | 2.60 |
| | 19.6.7 | 600 mm dia. R.C.C. pipe | 100 metre | 3.20 |
| | 19.6.8 | 700 mm dia. R.C.C. pipe | 100 metre | 3.70 |
| | 19.6.9 | 800 mm dia. R.C.C. pipe | 100 metre | 4.20 |

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|---------------------|---|-----------|---|
| | 19.6.10 | 900 mm dia. R.C.C. pipe | 100 metre | 4.90 |
| | 19.6.11 | 1000 mm dia. R.C.C. pipe | 100 metre | 5.50 |
| | 19.6.12 | 1100 mm dia. R.C.C. pipe | 100 metre | 6.10 |
| | 19.6.13 | 1200 mm dia. R.C.C. pipe | 100 metre | 6.80 |
| 19.7 | Construc | ting brick masonry manhole in cement mortar (1:4). | | |
| | 19.7.1 | Inside size 90x80 cm and 45 cm deep | each | 2.92 |
| | 19.7.2& 19.7.3 | Inside size 120x90 cm and 90 cm.deep | each | 4.73 |
| 19.8 | Extra for | depth for manholes | | |
| | 19.8.1 | Size 90x80 cm | metre | 1.26 |
| | 19.8.2 | Size 120x90 cm | metre | 1.52 |
| 19.9 | | ting brick masonry circular type manhole 0.91 m lia at bottom and 0.56m dia at top in cement :4). | | |
| | 19.9.1 | 0.91 m deep | each | 2.75 |
| 19.10 | | oth for circular type manhole 0.91m internal dia n) with beyond 0.91m to 1.67m | metre | 1.40 |
| 19.11 | | ting brick masonry circular manhole 1.22m lia at bottom and 0.56m dia at top in cement :4). | | |
| | 19.11.1 | 1.68 m deep | each | 5.39 |
| 19.12 | | oth for circular type manhole 1.22m internal dia m) beyond 1.68 m to 2.29 m. | metre | 1.43 |
| 19.13 | | ting brick masonry circular manhole 1.52 m internal tom and 0.56 m dia at top in cement mortar (1:4). | | |
| | 19.13.1 | 2.30 m deep | each | 10.86 |
| 19.14 | | oth for circular type manhole 1.52 m internal dia m) beyond 2.30 m. | metre | 3.11 |
| 19.15 | | g M.S. foot rests including fixing in manholes with 0 cm cement concrete blocks (1:3:6). | 100 nos. | 0.88 |
| 19.16 | Providing | orange colour safety foot rest. | 100 nos | 1.98 |
| 19.17 | | ment of M.S. foot rests in manholes with 0 cm C.C. blocks (1:3:6) mix. | 100 nos | 0.88 |
| 19.19 | Providing cover and | g and fixing in position precast R.C.C. manhole I frame. | | |
| | 19.19.1 L | D-2.5 | | |
| | 19.19.1.1 | Rectangular shape 600x450mm internal dimensions | each | 0.128 |
| | 19.19.1.2 | 2 Square shape 450mm internal dimensions | each | 0.096 |
| | 19.19.1.3 | Circular shape 450mm internal diameter | each | 0.096 |

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|--------------------|--|-------|---|
| | 19.19.2 | M D - 10 | | |
| | 19.19.2.1 | Square shape 450mm internal dimension | each | 0.128 |
| | 19.19.2.2 | 2 Circular shape 500mm internal diameter | each | 0.096 |
| | 19.19.3 | H D - 20 | | |
| | 19.19.3.1 | Circular shape 560 mm internal diameter | each | 0.096 |
| | 19.19.4 | EHD - 35 | | |
| | 19.19.4.1 | Circular shape 560 mm internal dia | each | 0.096 |
| 19.21 | _ | onnection of drain or sewer line with existing and making good the walls, floors with 4) mix. | | |
| | 19.21.1 | For pipes 100 to 250 mm diameter | each | 0.056 |
| | 19.21.2 | For pipes 250 to 300 mm diameter | each | 0.095 |
| | 19.21.3 | For pipes 350 to 450 mm diameter | each | 0.153 |
| 19.22 | | g sand cast iron drop connection externally for op from branch sewer line to main sewer manhole. : | | |
| | 19.22.1 | 100 mm dia sand cast iron drop connection | each | 0.34 |
| | 19.22.2 | 150 mm dia sand cast iron drop connection | each | 0.46 |
| 19.23 | Extra for connecti | depths beyond 60 cm of sand cast iron drop on. : | | |
| | 19.23.1 | For 100 mm dia. sand cast iron drop connection | metre | 0.21 |
| | 19.23.2 | For 150 mm dia. sand cast iron drop connection | metre | 0.26 |
| 19.27 | | eting brick masonry road gully chamber 50x45x cement mortar (1:4). | each | 0.93 |
| 19.28 | | eting brick masonry road gully chamber 45x45x in cement mortar (1:4). | each | 0.82 |
| 19.29 | | eting brick masonry road gully chamber 110x50x in cement mortar (1:4). | each | 1.66 |
| 19.30 | | ting brick masonry chamber for underground ection chamber and bends in cement mortar (1:4). | | |
| | 19.30.1 | Inside dimensions 455x610 mm and 45 cm deep for single pipe line | each | 0.90 |
| | 19.30.2 | Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets | each | 1.02 |
| | 19.30.3 | Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets | each | 1.27 |
| 19.31 | Extra for | depth beyond 45 cm of brick masonry chamber : | | |
| | 19.31.1 | For 455x610 mm size | metre | 0.87 |
| | 19.31.2 | For 500x700 mm size | metre | 0.95 |
| | 19.31.3 | For 600x850 mm size | metre | 1.12 |

| | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-----------|--|--|--|
| Making s | oak pit 2.5 m diameter 3.0 metre deep. | each | 0.072 |
| • | , , , | | |
| 19.34.1 1 | 100 mm dia | each | 0.013 |
| 19.34.21 | 50 mm dia | each | 0.019 |
| P/L Non | pressure Np-3 class | | |
| 19:35:1 | 450 mm dia RCC pipe | 100 Mtrs. | 1.20 |
| 19:35:2 | 600 mm dia R.C.C. pipe | 100 mtrs. | 1.60 |
| 19:35:3 | 900 mm dia R.C.C. pipe | 100 mtrs. | 2.50 |
| 19:35:4 | 1000 mm dia RCC pipe | 100 mtrs. | 2.80 |
| 19:35:5 | 1200 mm dia RCC pipe | 100 mtrs. | 3.40 |
| 19:35:6 | 1800 mm dia RCC pipe | 100 mtrs. | 4.90 |
| P/L Non | pressure Np-4 class | | |
| 19:36:1 | 450 mm dia RCC pipes | 100 mtrs. | 1.20 |
| 19:36:2 | 600 mm dia RCC pipes | 100 mtrs. | 1.60 |
| 19:36:3 | 900 mm dia RCC pipes | 100 mtrs. | 2.50 |
| 19:36:4 | 1000 mm dia RCC pipes | 100 mtrs. | 2.80 |
| 19:36:5 | 1200 mm dia RCC pipes | 100 mtrs. | 3.40 |
| 19:36:6 | 1800 mm dia RCC pipes | 100 mtrs. | 4.90 |
| | Providing with stiff 19.34.1 1 19.34.2 1 P/L Non 19:35:1 19:35:3 19:35:4 19:35:5 19:35:6 P/L Non 19:36:1 19:36:2 19:36:3 19:36:4 19:36:5 | Making soak pit 2.5 m diameter 3.0 metre deep. Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar (1:1). 19.34.1 100 mm dia 19.34.2 150 mm dia P/L Non pressure Np-3 class 19:35:1 450 mm dia RCC pipe 19:35:2 600 mm dia R.C.C. pipe 19:35:3 900 mm dia R.C.C. pipe 19:35:4 1000 mm dia RCC pipe 19:35:5 1200 mm dia RCC pipe 19:35:6 1800 mm dia RCC pipe P/L Non pressure Np-4 class 19:36:1 450 mm dia RCC pipes 19:36:2 600 mm dia RCC pipes 19:36:3 900 mm dia RCC pipes 19:36:4 1000 mm dia RCC pipes 19:36:5 1200 mm dia RCC pipes | Making soak pit 2.5 m diameter 3.0 metre deep. Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar (1:1). 19.34.1 100 mm dia each 19.34.2 150 mm dia each P/L Non pressure Np-3 class 19:35:1 450 mm dia RCC pipe 100 Mtrs. 19:35:2 600 mm dia R.C.C. pipe 100 mtrs. 19:35:3 900 mm dia R.C.C. pipe 100 mtrs. 19:35:4 1000 mm dia RCC pipe 100 mtrs. 19:35:5 1200 mm dia RCC pipe 100 mtrs. 19:35:6 1800 mm dia RCC pipe 100 mtrs. 19:36:1 450 mm dia RCC pipes 100 mtrs. 19:36:1 450 mm dia RCC pipes 100 mtrs. 19:36:2 600 mm dia RCC pipes 100 mtrs. 19:36:3 900 mm dia RCC pipes 100 mtrs. 19:36:4 1000 mm dia RCC pipes 100 mtrs. 19:36:5 1200 mm dia RCC pipes 100 mtrs. |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 20.0 PILE WORK

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|----------|---|-------|---|
| 20.1 | - | g, driving and installing driven cast-in-situ reinforced concrete piles of grade M -25. | | |
| | 20.1.1 | 400 mm dia piles | metre | 0.414 |
| | 20.1.2 | 450 mm dia piles | metre | 0.525 |
| | 20.1.3 | 500 mm dia piles | metre | 0.648 |
| | 20.1.4 | 550 mm dia piles | metre | 0.784 |
| | 20.1.5 | 750 mm dia piles. | metre | 1.456 |
| | 20.1.6 | 1000 mm dia piles | metre | 2.590 |
| | 20.1.7 | 1200 mm dia piles | metre | 3.729 |
| | 20.1.8 | 1500 mm dia piles | metre | 5.83 |
| 20.2 | 0.1 | roviding and installing bored cast-in-situ reinforced concrete piles of grade M -25 by tripod and mechanical achine. | | |
| | 20.2.3 | 450 mm dia piles | metre | 0.525 |
| | 20.2.4 | 500 mm dia. piles | metre | 0.648 |
| | 20.2.5 | 600 mm dia piles | metre | 0.932 |
| | 20.2.6 | 750 mm dia piles. | metre | 1.456 |
| 20.2A | cement c | roviding and installing bored cast-in-situ reinforced concrete piles of grade M -25 by crawler mounted, c boom hydraulic pilling Rig. | | |
| | 20.2A.1 | 600 mm dia piles | metre | 0.932 |
| | 20.2A.2 | 750 mm dia piles | metre | 1.456 |
| | 20.2A.3 | 1000 mm dia piles | metre | 2.590 |
| | 20.2A.4 | 1200 mm dia piles | metre | 3.729 |
| | 20.2A.5 | 1500 mm dia pile | metre | 5.830 |
| 20.3 | • | Providing and installing cast in situ single under piles of grade M -25. | | |
| | 20.3.1 | 300 mm dia piles | metre | 0.257 |
| | 20.3.2 | 400 mm dia piles | metre | 0.488 |
| | 20.3.3 | 450 mm dia piles | metre | 0.629 |
| | 20.3.4 | 550 mm dia piles | metre | 0.792 |

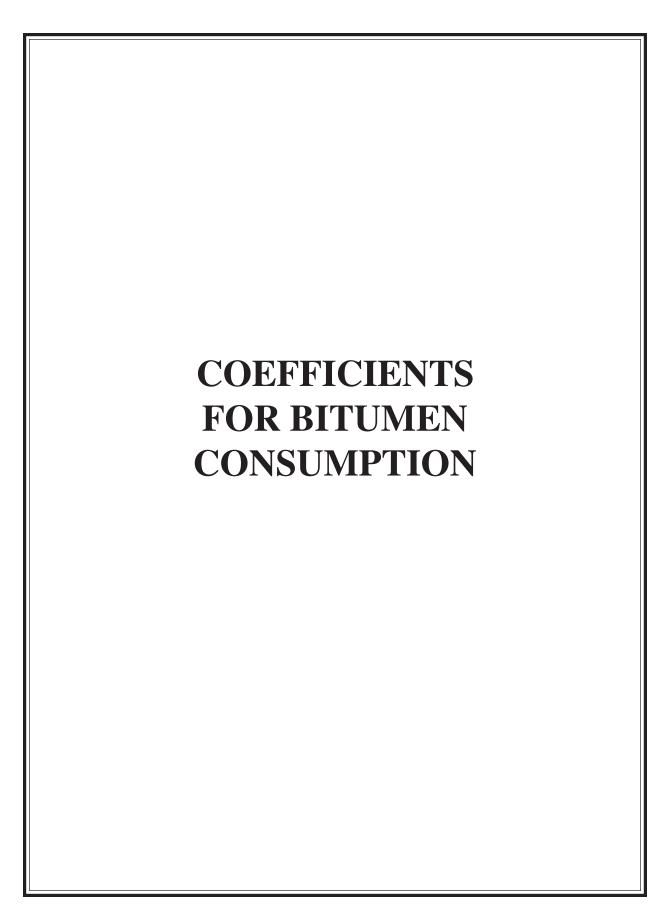
| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|-----------|---|-------|---|
| 20.4 | Extra for | providing additional bulb in under reamed piles. | | |
| | 20.4.1 | 300 mm dia piles | each | 0.109 |
| | 20.4.2 | 400 mm dia piles | each | 0.208 |
| | 20.4.3 | 450 mm dia piles | each | 0.267 |
| | 20.4.4 | 550 mm dia piles | each | 0.396 |
| 20.5 | | g, driving and installing driven Pre-cast reinforced concrete piles of grade M -25. | | |
| | 20.5.1 | 400 mm dia piles | metre | 0.414 |
| | 20.5.2 | 450 mm dia piles | metre | 0.525 |
| | 20.5.3 | 500 mm dia piles | metre | 0.648 |
| | 20.5.4 | 550 mm dia piles | metre | 0.784 |
| | 20.5.5 | 750 mm dia piles | metre | 1.795 |
| | 20.5.6 | 1000 mm dia piles | metre | 2.590 |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 22.0 WATER PROOFING

| Code No. | | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|-------------|---|---|------|---|
| 22.1 | P/L integral cement based treatment for water proofing on horizontal surface. : | | | |
| | 22.1.1 | Using rough kota stone | sqm | 0.342 |
| 22.2 | | gral cement based treatment for water proofing on cal surface. : | | |
| | 22.2.1 | Using rough Kota stone | sqm | 0.443 |
| 22.3 | | er proofing treatment to vertical and horizontal s of depressed portions of W.C., kitchen and the like ng of: | | |
| | i) Is | t course of applying cement slurry @ 4.4 kg/sqm | | |
| | ii) II | nd course of 20mm cement plaster (1:3) | | |
| | , | ord course of applying blown or residual bitumen applied to at 1.7 Kg. per sqm of area | | |
| | iv) I\ | th course of 400 micron thick PVC sheet | sqm | 0.158 |
| 22.5 | P/L wat bathroo | er proofing treatment in sunken portion of WCs, m etc. | sqm | 0.0123 |
| 22.6 | P/L wat | er proofing treatment on roofs. | sqm | 0.0195 |
| 22.7 | | gral cement based water proofing treatment on alconies, terraces etc. : | | |
| | 22.7.1 | With average thickness of 120mm and minimum thickness at khurra as 65 mm | sqm | 0.387 |
| 22.14 | Grading | roof for water proofing treatment with | | |
| | 22.14.1 | Cement concrete 1:2:4 | cum | 3.20 |
| | 22.14.2 | Cement mortar 1:3 | cum | 5.10 |
| | 22.14.3 | Cement mortar 1:4 | cum | 3.80 |
| | | | | |

1.0 COEFFICIENTS FOR CEMENT CONSUMPTION 26.0 NEW TECHNOLOGIES AND MATERIALS

| Code No. | Description | Unit | Quantity of cement per unit quantity of work (Quintals) |
|------------------|--|-----------|---|
| 26.31.1 | SBR Polymer (@10% of cement weight) modified cementitious | | |
| 26.32 | bond coat @2.2 kg cement per sqm. Providing, mixing and applying SBR polymer (of approved make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used). | 100 sqm | 2.20 |
| 26.32.1 | 12 mm average thickness. | 100 sqm | 5.47 |
| 26.32.2 | 25 mm average thickness in 2 layers. | 100 sqm | 11.40 |
| 26.32.3 26.33 | 50 mm average thickness in 3 layers. Providing, mixing and applying SBR polymer (of approved make @ minimum 2% by wt. of cement used) modified plain/reinforced cement concrete for structural members. | 100 sqm | 22.80 |
| 26.33.1 | 50mm thick in Grade M 25 with cement content not less | | |
| 00.00.0 | than 330 kg per cum | 100 sqm | 16.50 |
| 26.33.2 | 75mm thick in Grade M 25 with cement content not less than 330 kg per cum | 100 sqm | 24.75 |
| 26.34 | Providing and laying SBR Polymer modified (of approved make @ minimum 2% by wt. of cement used) plain/reinforced concrete jacket for the structural members e.g. columns, pillars, piers, beams etc with concrete. 50mm thick in Grade M 25 with cement content not less | 100 Sqiii | 24.73 |
| 20.34.1 | than 330 kg per cum | 100 sqm | 16.50 |
| 26.34.2 | 75mm thick in Grade M 25 with cement content not less | 100 04111 | 10.00 |
| | than 330 kg per cum | 100 sqm | 24.75 |
| 26.34.3 | 100mm thick in Grade M 25 with cement content not less | | |
| 26.35 26.35.1 | than 330 kg per cum Providing and injecting approved grout in proportion recommended by the manufacturer into cracks/honey-comb area of concrete/masonry by suitable gun/pump. Stirrer mixed Acrylic Polymer of approved make @ 2% of weight of company used make with | 100 sqm | 33.00 |
| 26.35.2 | weight of cement used) modified Cement slurry made with non shrink compound in concrete/RCC work Stirrer mixed SBR Polymer (of approved make) modified | 100 kg | 1.00 |
| | Cement slurry made with Shrinkage Compensating Cement | 400 1 | 4.00 |
| 26.38 | in concrete/RCC work. "Shotcreting R.C.C. columns, beams and slabs etc. in layers with approved design mix concrete having ."" | 100 kg | 1.00 |
| 26.38.1 | 25mm thick in Grade M 25 with cement content not less than 330 kg per cum | 100 sqm | 10.31 |
| 26.38.2 | 50 kg per cum 50mm thick in Grade M 25 with cement content not less than | 100 Sqiii | 10.31 |
| 20.00.2 | 330 kg per cum | 100 sqm | 20.63 |
| 26.38.3 | 75mm thick in Grade M 25 with cement content not less than | · | |
| 00.40 | 330 kg per cum | 100 sqm | 30.94 |
| 26.46 | Providing and fixing in position, 200 mm thick factory made Expanded Polystyrene Core (EPS Core) wall panels consisting of EPS core sandwiched between two Engineered sheets of welded wire fabric meshapplying the layer of 50 mm thick cement mortar 1:3 {1 cement: 3 coarse sand | 100 sqm | 51.00 |
| 26.47 | Providing and fixing in position, 230mm thick factory made Expanded Polystyrene Core (EPS Core) roof/floor panels applying a layer of 60-65 mm thick cement mortar 1: 3 {1 cement: 3 coarse sand applying 70-75 mm thick layer of cement concrete 1:1.5: 3 (1 cement :1.5 coarse sand : 3 graded stone | · | |
| | aggregate 20 mm nominal size). | 100 sqm | 58.60 |



2.0 COEFFICIENTS FOR BITUMEN CONSUMPTION 16.0 ROAD WORK

| Code No. | | Description | Unit | Quantity of bitumen per unit quantity of work (Quintals) |
|-------------|--|--|------|--|
| | SURFAC | E DRESSING | | |
| 16.25 | Surface dressing on new surface with paving bitumen of grade VG -10. | | sqm | 0.0225 |
| 16.26 | Surface dressing on new surface in two coats with bitumen of grade VG -10. | | sqm | 0.029 |
| 16.27 | Surface dressing on old surface with hot bitumen of grade VG -10. | | sqm | 0.0195 |
| 16.28 | Surface | dressing one coat on new surface : | | |
| | 16.28.1 | Using bitumen emulsion | sqm | 0.0195 |
| 16.29 | Surface | dressing one coat on old surface : | | |
| | 16.29.1 | Using bitumen emulsion | sqm | 0.0122 |
| | PREMIX | CARPET | | |
| 16.30 | Providino VG-10 : | g and applying tack coat with bitumen of grade | | |
| | 16.30.1 | On W.B.M. @ 0.75 Kg / sqm | sqm | 0.0075 |
| | 16.30.2 | On bituminous surface @ 0.50 Kg / sqm | sqm | 0.0050 |
| 16.31 | Providing and applying tack coat using bitumen emulsion (Rapid Setting): | | | |
| | 16.31.1.1 | 1 On W.B.M @ 0.4kg/sqm | sqm | 0.0040 |
| | 16.31.1.2 | 2 On bituminous surface @ 0.25kg/sqm | sqm | 0.0025 |
| 16.32 | 2 cm premix carpet surfacing with paving asphalt VG-10/VG-30/modified bitumen CRMB 55. | | sqm | 0.0144 |
| 16.33 | 2.5 cm p | remix carpet surfacing with paving asphalt | | |
| | VG-10/V | G-30/modified bitumen CRMB 55. | sqm | 0.018 |
| 16.34 | 2 cm pre | mix carpet surfacing with bitumen emulsion. | sqm | 0.0255* |
| 16.35 | 2.5 cm premix carpet surfacing with bitumen emulsion. | | sqm | 0.0313* |
| 16.36 | Providing and laying Bitumen Penetration Macadam: | | | |
| | 16.36. | For 50mm compacted thickness with paving asphalt VG-10 @ 50 kg/10 sqm | sqm | 0.05 |
| | 16.36.2 | For 75 mm compacted thickness in two layers with paving asphalt VG-10 @ 68 kg/10 sqm | sqm | 0.068 |
| | MASTIC | AND BITUMASTIC WEARING COURSE | | |
| 16.37 | Providing and laying bitumen mastic wearing course: | | | |
| | 16.37.1 | 5 mm thick | sqm | 0.0588 |
| | 16.37.2 | 40 mm thick | sqm | 0.0941 |
| | | | · | |

| Code No. | | Description | Unit | Quantity of bitumen per unit quantity of work (Quintals) |
|-------------|--|--|---------|--|
| 16.38 | 2.5 cm thick bitumastic sheet with hot bitumen, paving asphalt VG-10/VG-30/modified bitumen CRMB 55. | | | 0.0303 |
| 16.39 | 4 cm thick bitumastic sheet with hot bitumen, paving asphalt VG-10/VG-30/modified bitumen CRMB 55. | | sqm | 0.0479 |
| | SEALCO | DAT | | |
| 16.40 | P/L seal coat using 128 kg of bitumen of grade VG-10. | | | 0.0077 |
| 16.41 | P/L seal coat using 98 kg of bitumen of grade VG-10. | | | 0.0098 |
| 16.54 | P/L Dense Bituminous macadam : | | | |
| | 16.54.1 | 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 1.1538 |
| | 16.54.2 | 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 1.1538 |
| 16.55 | Providing | g and laying Bituminous Macadam. | | |
| | 16.55.1 | 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 0.7683 |
| | 16.55.2 | 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 0.7683 |
| 16.56 | Providing | g and laying Semi Dense Bituminous concrete | | |
| | 16.56.1 | 25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | 100 sqm | n 2.8846 |
| | 16.56.2 | 25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity. | 100 sqm | n 2.8846 |
| 16.57 | P/L Bituminous Concrete : | | | |
| | 16.57.1 | 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 1.2958 |

| Code No. | | Description | Unit | Quantity of bitumen per unit quantity of work (Quintals) |
|-------------|---------|--|------|--|
| | 16.57.2 | 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @ 8% (percentage by weight of bitumen) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 1.2958 |
| | 16.57.3 | 40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 1.2958 |
| | 16.57.4 | 40/50 mm compacted thickness with bitumen of grade CRMB-60 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity. | cum | 1.2958 |
| | 16.57.5 | 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 1.2958 |
| | 16.57.6 | 40/50 mm compacted thickness with bitumen of grade VG-30 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) and waste plastic additive @ 8% (percentage by weight of bitumen) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 1.2958 |
| | 16.57.7 | 40/50 mm compacted thickness with bitumen of grade PMB-40 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 1.2958 |
| | 16.57.8 | 40/50 mm compacted thickness with bitumen of grade CRMB-60 @ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Drum Type Hot Mix Plant of 60-90 TPH capacity. | cum | 1.2958 |

^{*} Including tack coat

2.0 COEFFICIENTS FOR BITUMEN CONSUMPTION 22.0 WATER PROOFING

| Code No. | | Description | Unit | Quantity of bitumen per unit quantity of work (Quintals) |
|-----------------|---|--|------|---|
| 22.3 | P/L water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like. | | | 0.017 |
| 22.6 | P/L water proofing treatment on roofs with cement slurry & fibre glass cloth. | | sqm | 0.0097 |
| 22.8 | P/L four courses water proofing treatment with bitumen felt over roofs: | | | |
| | 22.8.1 | Bitumen felt (hessian base)type 3 grade I | sqm | 0.029 |
| 22.9 | | ourses water proofing treatment with bitumen felt is applied hot @ 1.45, 1.20 & 1.45 for 1st, 3rd and e. | sqm | 0.041 |
| 22.10& 22.11 | P/L six courses water proofing treatment with bitumen felt over roofs applied hot @ 1.45, 120 & 1.70 for 1st, 3rd and 5th course. | | sqm | 0.0435 |
| 22.15 | | seven course water proofing treatment with mm thick @ 2.25 kg./sqm). | sqm | 0.036 |
| 22.16 | P/L in situ five course water proofing treatment with APP (2.00 mm thick @ 3.00 kg./sqm). | | sqm | 0.024 |
| 22.17 | P/L in situ seven course water proofing treatment with APP (2.00 mm thick @ 3.00 kg./sqm). | | sqm | 0.036 |
| 22.18 | P/F APP. | | | |
| | 22.18.1 | 2 mm (for corrugated roof sheets) | sqm | 0.0035 |
| 22.19 | P/L APP modified prefabricated five layer, 3 mm thick water proofing membrane. Tear strength in longitudinal and transverse direction as 60/80N. | | | |
| | 22.19.1 | 3 mm thick | sqm | 0.0035 |
| 22.20 | P/L APP modified prefabricated five layer 3 mm thick water proofing membrane. Tear strength in longitudinal and transverse direction as 300/250N. | | | |
| | 22.20.1 | 3 mm thick | sqm | 0.0035 |