



**STANDARD SCHEDULE OF RATES
FOR THE YEAR 2018-2019**

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TAMILNADU WATER SUPPLY AND DRAINAGE BOARD

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Foreword




Dr.C.N. Mahesvaran, I.A.S, Managing Director

I fully recognize that the updating of Schedule of Rate (SoR) on an annual basis is a dynamic process propelled by the PWD SoR, feed backs, field experiences and market rates of materials. The drills of processes underwent by a dedicated team to collate rates for the SoR in an acceptable format, require a lot of team work behind, prior to competent compilation by Contract Management (CoM) Wing. The arduous process of preparation of TWAD Board SoR for 2018-'19 including the newer items stem from the Rates quoted by Manufacturers, proposals emanated from the respective Chief Engineers based on field experience, and the supplemental rates approved by the Superintending Engineers.

I am happy that there are new vistas in the items involving Electro Mechanical and Instrumentation (EMI). I am charmed to know that such specifications and rates of EMI are formulated after profound deliberations among a Committee of proficient Mechanical Engineers, duly vetted by veteran retired Engineers. It is gratifying to note that rates and processes pursued in preparing the SoR for 2018-'19 has been approved by the SLTC of TWAD Board.

As such, I take immense pleasure in dedicating the "**TWAD Board Schedule of Rates for 2018-'19**", for adoption in the preparation of Estimates for Water Supply and Sewerage Projects. At this juncture, the flawless compilations of the SoR by the CoM unit deserve appreciation. I find pride in placing on record the valuable contribution of all concerned in the publishing of "TWAD Board SoR for 2018-'19". I request the TWAD Board Engineers, to make use of the specifications and rates adeptly in preparing the Estimates.


**Managing Director,
TWAD Board, Chennai-5**

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**PROCEEDING OF THE JOINT MANAGING DIRECTOR, TWAD BOARD,
HEAD OFFICE, CHEPAUK, CHENNAI-5
PRESENT: Thiru T.Anand, I.A.S.,
JOINT MANAGING DIRECTOR**

Proc.No.Sch.rate/CM/AE/2018/dt.29.06.2018

Sub: TWAD Board-Schedule of Rates for 2018 - 19 – State Level Technical Committee - Rates finalized – Communicated – reg.

- Ref: 1. Joint Managing Director, TWAD Board, Chennai-5.
Proc. No.8544/SDO.4/COM/2017/dt.31.10.2017
2. Engineer - in - Chief (Buildings), Chief Engineer (Buildings), Chennai Region & Chief Engineer (General), PWD, Chennai-5.
Proceedings .No.HDO(A) /22368 /2018-1 / dated 22.05.2018.
3. Minutes of the State Level Technical Committee meeting held on 19.06.2018 at TWAD Board, Head Office, Chennai.5
4. Resolution No. 3.2/Dt. 10.12.2001 of 369th Board meeting.

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TWAD Board communicated the approved Schedule of Rates of for the year 2017-18 vide reference 1st cited, to all the Chief Engineers, Superintending Engineers, Executive Engineers of TWAD Board for adoption.

After due observance of procedures, the proposals for revision of Schedule of Rates for 2018 -19 were placed before the State Level Technical Committee. The State Level Technical Committee of TWAD Board during the meeting on 19.06.2018, deliberated and approved the proposals concerning the Standard Schedule of Rates for 2018-19, in sequel to the publication of Schedule of Rates for PWD vide reference 2nd cited.

Accordingly, the approved Standard Schedule of Rates of TWAD Board for the year 2018-19 is communicated herewith for adoption in the preparation of cost estimates with effect from **01.07.2018**.

The receipt of Standard Schedule of Rates for the year 2018-19 along with the enclosures may be acknowledged.

End: TWAD Board Standard Schedule of Rates for 2018-19 - One booklet.


**Joint Managing Director
TWAD Board, Chennai.5.**

To
All the Chief Engineers/Superintending Engineers/Executive Engineers of TWAD Board,
All the Joint Chief Engineers of Head Office, TWAD Board.

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INDEX

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|-------------|----------------------------|--|----------|
| I | General Notes | | 1-12 |
| II | Rates for Labour | | 13-18 |
| IIIA | Rates for Materials | | |
| 1 | 1 | PVC Rigid pipes | 21 |
| 2 | 1.1 | PVC CASING Pipes | 22 |
| 3 | 1.2 | UPVC pipes | 23 |
| 4 | 1.3 | UPVC Column pipe | 23 |
| 5 | 1.4 | PVC specials | 24-25 |
| 6 | 1.5 | PVC specials | 26 |
| 7 | 2 | HDPE pipes | 27-29 |
| 8 | 2.1 | HDPE specials | 30-31 |
| 9 | 3 | A.C. pressure pipes | 32 |
| 10 | 3.1 | AC Coupler | 33 |
| 11 | 3.2 | CID Joints | 34 |
| 12 | 4 | CI Spun Pipes | 35-36 |
| 13 | 4.1 | CI D/F Pipes Standard and Non Standard | 37 |
| 14 | 4.2 | CI D/F Specials & S/S Specials Standard and Non Standard | 37 |
| 15 | 5 | GI pipes (Medium) | 38 |
| 16 | 5.1a | GI specials | 39-41 |
| 17 | 5.1b | GI specials | 42 |
| 18 | 5.2 | GM valves | 43 |
| 19 | 6 | DI S/S K7 pipes | 44 |
| 20 | 6.1 | DI S/S K9 pipes | 45 |
| 21 | 6.2 | DI Flanged pipes PN 10(4m) and (5m) length | 46 |
| 22 | 6.3 | DI specials(All socket) and (All flanged) | 47 |
| 23 | 7 | House Service Connection for WSS | 48-50 |
| 24 | 8 | Bar wrapped steel cylinder pipes | 51-54 |
| 25 | 9 | Pipes for UGSS | 55 |
| 26 | 10 | M.S. Pipes as per IS -3589 spirally/ longitudinal welded | 56-58 |
| 27 | 10.1 | M.S. Specials | 59 |
| 28 | 11 | RCC non pressure Pipes | 60 |
| 29 | 11.1 | Rubber gaskets | 61 |
| 30 | 12 | C.I.D/F sluice valve (PN.1) | 62 |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|----------------|---------------------|---|-----------------|
| 31 | 12.1 | C.I.D/F Reflux valves with ISI marking | 63 |
| 32 | 12.2 | CI Double Air valve with ISI marking | 64 |
| 33 | 12.3 | CI single Air valve with ISI marking | 64 |
| 34 | 12.4 | Kinetic Air valve | 65 |
| 35 | 12.5 | CI Sluice valve PN 1.6 | 65 |
| 36 | 12.6.1 | CI Butterfly valve PN 1.6-Wafer Liner | 66 |
| 37 | 12.6.2 | CI Butterfly valve PN 1.6-D/F Gear operated | 66 |
| 38 | 12.7.1 | CI Non-return valve - Wafer type (Dual plate check valve) | 66 |
| 39 | 12.7.2 | CI Non-return valve - Double flanged (Dual plate check) | 67 |
| 40 | 12.7.3 | CI Non-return valve outdoor use | 67 |
| 41 | 12.8 | D.I. Single Chamber Air Release valve | 68 |
| 42 | 12.9 | D.I. D/F Gate valve | 68 |
| 43 | 12.10 | D.I. D/F Butterfly valves | 69 |
| 44 | 12.11 | DI Non return valve | 69 |
| 45 | 12.12 | DI Wafer type Butterfly valve | 70 |
| 46 | 12.13 | DI Disk Check Valve | 71 |
| 47 | 12.14 | DI Diaphragm type flow control Valve | 72 |
| 48 | 12.14.1 | DI Altitude Control valve | 72 |
| 49 | 12.14.2 | DI Pressure reducing valve | 73 |
| 50 | 12.14.3 | DI Flow rate limit control valve | 74 |
| 51 | 12.14.4 | DI Pressure sustaining / Relief valve | 75 |
| 52 | 12.14.5 | DI Pump control valve | 76 |
| 53 | 12.14.6 | DI Pressure reducing and Flow limit control valve | 77 |
| 54 | 12.14.7 | DI Altitude Control and Flow control valve | 78 |
| 55 | 12.15 | DI Plunger type flow control valve | 79 |
| 56 | 12.16 | DI Surge control valve | 80 |
| 57 | 12.17 | OHT flow control valve | 80 |
| 58 | 13 | Salt Glazed Stone Ware pipe of 600MM length | 81 |
| 59 | 13.1 | Salt glazed Stoneware Pipes of 1000MM length with Rubber Gasket | 81 |
| 60 | 13.2 | Salt glazed Stoneware Pipes of 1200MM length with Rubber Gasket | 81 |
| 61 | 14 | Sulphate Resistant Cement | 81 |
| 62 | 15 | FRC Frame and Manhole Cover | 82 |
| 63 | 16 | Water meter, Dirt box and Strainer and Erection Charges | 83 |
| 64 | 16.1 | Orifice type Electronic Water meter (Deleted) | 83 |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|---------|----------------|--|----------|
| 65 | 16.2 | Full Bore Electromagnetic Flowmeter. | 83-84 |
| 66 | 17 | HDPE Tank | 85 |
| 67 | 18 | M S Kiosk | 85 |
| 68 | 19 | MS Ladder. | 86 |
| 69 | 20 | MS Door , Window, Ventilator | 87 |
| 70 | 21 | Water Disinfection Equipment Silver Ionization process (Deleted) | 87 |
| 71 | 21.1 | Replacement electrode for Water Disinfection Equipment (Deleted) | 87 |
| 72 | 21.2 | Electro Chlorinator using common salt | 88 |
| 73 | 22 | Fusion Bonded Epoxy coating to Reinforcement Steel Bars | 89 |
| 74 | 23 | Mechanical joint collars | 90 |
| 75 | 24 | Stainless steel clamp | 91-93 |
| | III (B) | Rates for Pump Sets | |
| 1 | 1 | Centrifugal Monobloc Pumpset without Panel Board | 97 |
| 2 | 2 | Single phase submersible pumpset without panel board | 98 |
| 3 | 3 | Three phase submersible pumpset for 100 mm dia bore without panel board | 99 |
| 4 | 3.1. | Three phase submersible pumpset for 150 mm dia Borewithout panel board | 100-102 |
| 5 | 4 | Openwell submersible pumpset without panel board | 103-106 |
| 6 | 5 | Horizontal SPLIT Casting Centrifugal Pump (1500RPM) | 107 |
| 7 | 6 | Horizontal Squirrel cage Motor 1500RPM | 108 |
| 8 | 7 | Horizontal Squirrel cage Motor 1000RPM | 109 |
| 9 | 8 | Vertical Turbine pump for 1500RPM VHS motor | 110 |
| 10 | 9 | Vertical Hollow/ Solid Shaft motors for turbine pump 1500 RPM | 111 |
| 11 | 10 | Iron Core Oil Cooled Transformer - 11KV/22KV/ 11&22KV /433V | 112 |
| 12 | 11 | Single phase panel board with two level guard and auto start | 113 |
| 13 | 11.1 | Three phase D.O.L panel board | 113 |
| 14 | 11.2 | Three phase star delta panel board where MV panel Board is not used | 114 |
| 15 | 11.3 | DOL Starter with Single Phasing Preventor | 114 |
| 16 | 11.4 | FCMA Soft Starter for LT motor | 115 |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|----------------|---------------------|---|-----------------|
| 17 | 11.5 | FCMA Soft Starter for HT motor | 116 |
| 18 | 11.6 | Fully Auto Star Delta Starter for installing where MV panel Board is used | 117 |
| 19 | 11.7 | Fully Automatic ATS Starter | 118 |
| 20 | 12 | L.T.Cables (3,3.5,4) Armoured Aluminium conductor cable | 119 |
| 21 | 12.1 | PVC Insulated and sheathed 3 Core Flat Copper Cables | 120 |
| 22 | 12.2 | Rate for cable joints including material & labour | 121 |
| 23 | 12.3 | Rate for laying UG Cable below GL and inside pumphoom | 123 |
| 24 | 12.4 | Cable clamps | 123 |
| 25 | 12.5 | H.T.Aluminium Conductor Cables | 124 |
| 26 | 13 | Vacumm Pumpset | 124 |
| 27 | 14 | MCCB 3 Pole & 4 Pole | 125 |
| 28 | 15 | Capacitor | 125 |
| 29 | 16 | LT/LTCT Metering Box | 126 |
| 30 | 17 | Transformer sub station related works | 126 |
| 31 | 17.1 | ACB 3 Pole & 4 Pole | 127 |
| 32 | 18 | Safety appliances | 127 |
| 33 | 19 | Twin CI earthing | 128 |
| 34 | 20 | Tools | 129 |
| 35 | 21 | HOT Crane and Accessories | 130 |
| 36 | 22 | Non Clog Submersible Pumpsets for Sewage applications | 131-133 |
| | III (C) | Rates for Electro Mechanical items | |
| 1 | 1 | Selector switch for Panel Board/Cubical Panel Board/Starter | 137 |
| 2 | 2 | Multi functions meter-Flush type for M V Panel Board | 137 |
| 3 | 3 | Ammeter -Digital | 137 |
| 4 | 4 | Pressure Gauge | 137 |
| 5 | 5 | Mechanical Interlocking System type for M V Panel Board | 138 |
| 6 | 6 | Ammeter -Analog | 138 |
| 7 | 7 | Voltmeter -Digital | 138 |
| 8 | 8 | Voltmeter -Analog | 138 |
| 9 | 9 | M V Cubical Panel Board vermi proof box | 138 |
| 10 | 10 | Electromagnetic contactors | 138 |
| 11 | 11 | Overload relay | 139 |
| 12 | 12 | Preventor-Single phasing | 139 |
| 13 | 13 | Preventor-Dry Run | 139 |
| 14 | 14 | Erection of Power Pumpset | |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|---------|----------------|---|----------|
| 15 | a) | Horizontal shaft centrifugal pumpset (Coupled/Monoblock) for sump | 140 |
| 16 | b) | Submersible pumpset in well /sump | 140 |
| 17 | 15 | Hire charges for Centrifugal sludge removal pumpset | 140 |
| | III (D) | Rates for Building Materials | |
| 1 | 1 | Cement | 143 |
| 2 | 2 | Steel | 143 |
| 3 | 1-15 | Bricks and Tiles | 145-146 |
| 4 | 16 - 52 | Stone and Road Materials | 146-149 |
| 5 | 53-72 | Timber and Roofing Materials | 149-151 |
| 6 | 73-80 | Metal and Iron Items | 151 |
| | III (E) | Rates for Other Construction Materials | |
| 1 | 1-138. | Tiles, Polished Stones, Stone Slabs, Aluminium Doors, Rolling Shutters etc., | 155-164 |
| 2 | 139 | Cast Iron Nahini / Floor Trap | 164 |
| 3 | 140-165 | PVC Nahini / Floor Trap | 165 |
| | III (F) | Water Supply and Sanitary arrangements | |
| 1 | 1 | PVC Items Finolex | 169 |
| 2 | 2 | PVC Specials for water supply arrangements | 169-170 |
| 3 | 3 | PVC Special for Sanitary Arrangements | 171 |
| 4 | 4-6. | PVC Screws and adhesives | 172 |
| 5 | 7 | PVC Low level flushing tank | 172 |
| 6 | 8 | PVC and HDPE Pipes for Borewells | 173 |
| 7 | 9 | PVC Water tank | 173 |
| 8 | 10-11. | UPVC pipes | 173 |
| 9 | 12-13. | CPVC Pipes | 174 |
| 10 | 14 | UPVC Specials | 174 |
| 11 | 15 | CPVC Specials | 176 |
| | III (G) | Rates for Electrical Items | |
| | I | PART-A | |
| 1 | 1 | Incandescent Bulbs 230V/ 250V Grade BC/ES | 179 |
| 2 | 2 | Incandescent Bulb 230V/ 250V Grade BC/ES | 179 |
| 3 | 3 | PI Lamp (Philips/ Osram) | 179 |
| 4 | 4 | Fluorescent Tubular Lamps | 179 |
| 5 | 5 | New Item-4' 18w Crystal Glass Led Tube Light | 179 |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|----------------|---------------------|--|-----------------|
| 6 | 6 | Mercury Vapour Discharge Lamp 230v Grade 3 Pin BC | 179 |
| 7 | 7 | Box Type Single Fluorescent Fitting With Copper Choke And Condenser Complete With ISI Mark | 179 |
| 8 | 8 | Box Type Twin Fluorescent Fitting With Copper Choke And Condensor [HPF] | 180 |
| 9 | 9 | Industrial Type Fluorescent Fitting Stove Enamelled With Copper Choke And Condensor (HPF) 4 Ft. 40w | 180 |
| 10 | 10 | Decorative Twin Fluorescent Type Fitting With Copper Choke And Condensor Complete Suitable For 2 Numbers Fluorescent Tubes | 180 |
| 11 | 11 | Single Type Street Light Fluorescent Fitting Suitable For One No. Fluorescent Tube With Copper Choke And Condensor | 180 |
| 12 | 12 | Twin Type Street Lights Fluorescent Fitting Suitable For 2 Nos. Fluorescent Tubes With Copper Choke And Condensor | 180 |
| 13 | 13 | Post Top Lantern Fitting Of (Integral Type) With Copper Choke And Condensor & Necessary Accessories (Philips/ Crompton Greaves/Wipro) (Spherical / Ribbed / Conical Acrylic Cover) | 180 |
| 14 | 14 | CFL Street Light Fittings (Compact Fluorescent Lamp) | 181 |
| 15 | 15 | LED Indoor Fittings (Light Emitting Diode) | 181 |
| 16 | 16 | LED Outdoor Fittings (Light Emitting Diode) | 182 |
| 17 | 17 | LED Outdoor Fittings (Light Emitting Diode) | 182 |
| 18 | 18 | Timer Switches | 182 |
| 19 | 19 | Starters For Fluorescent Tubes | 182 |
| 20 | 20 | Polyster Filled Copper Choke | 182 |
| 21 | 21 | Condensor For S.V/ M.V Lamp | 182 |
| 22 | 22 | Battern type Bakelite holder for lamp | 183 |
| 23 | 23 | Water tight bulk head fitting | 183 |
| 24 | 24 | Ceiling Rose | 183 |
| 25 | 25 | Ceiling fixtures 250/300mm | 183 |
| 26 | 26 | Ceiling luminaire with mirror optics | 183 |
| 27 | 27 | Fan clamp (dia 12mm) | 183 |
| 28 | 28 | Call Bells | 183 |
| 29 | 29 | Water Heater with ISI Mark | 183 |
| | II | PART 'B' | |
| 30 | 1 | Fans – Confirming to ISI 374 / 1979 | 183 |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|---------|--------------|--|----------|
| 31 | 2 | Exhaust Fans | 184 |
| 32 | 3 | Louver shutters arrangements | 184 |
| 33 | 4 | Ceiling Fan | 184 |
| 34 | 5 | Dimmer and Regulator | 184 |
| | III. | PART "C" | |
| 35 | 1 | Switches | 184 |
| 36 | 2 | Double Pole Switches | 184 |
| 37 | 3 | Triple Pole switches (side Handle) | 185 |
| 38 | 4 | Switch Disconnecter fuse units in sheet steel enclosure | 185 |
| 39 | 5 | Switch Disconnecter Fuse Units In Open Execution (Interior For Cubical) | 185 |
| 40 | 6 | Fuse units | 186 |
| 41 | 7 | Single Phase DBS | 186 |
| 42 | 8 | Three Phase DBS | 186 |
| 43 | 9 | Change Over Switches | 186 |
| | 10 | Modular Switches | |
| 44 | 1 | Switches 6A - 230V | 187 |
| 45 | 2 | Switches 16A - 230V | 187 |
| 46 | 3 | Switches 20A - 230V | 187 |
| 47 | 4 | Switches 25A - 230V | 187 |
| 48 | 5 | Switches 32A - 230V | 187 |
| 49 | 11 | Push Buttons | 187 |
| 50 | 12 | Motor Starter | 187 |
| 51 | 13 | Flush Mounting Boxes (GI) | 187 |
| 52 | 14 | Surface Mounting Boxes (Plastic) | 188 |
| 53 | 15 | Combined Plates (Plastic) | 188 |
| 54 | 16 | Combined Plates (Aluminium) | 188 |
| | IV | PART 'D' | |
| 55 | 1 | Plug and Sockets | 188 |
| 56 | 2 | Socket - 230V | 189 |
| 57 | 3 | Single Phase WATT Hour Meters | 189 |
| 58 | 4 | Three Phase WATT Hour Meters | 189 |
| | V | PART 'E' | |
| 59 | 1 | Service Connection Accessories LT. 1100V PVC Aluminium Conductor Armoured Under Ground Cable With ISI Mark | 189 |
| 60 | 2 | PVC Insulated Single Core Multi Strand Fire Retardant Flexible Copper Cable With ISI Mark Conforming To IS 694/ 1990 | 190 |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|---------|--------------|---|----------|
| 61 | 3 | Conductor | 190 |
| 62 | 4 | Cable Glands | 190 |
| 63 | 5 | Fuse Wire(Copper) | 191 |
| 64 | 6 | Neutral Link 15 AMPs | 191 |
| | VI | PART ' F ' | |
| 65 | 1 | M.S. Box with Painting (16 SWG) | 191 |
| | VII | PART ' G ' | |
| 66 | 1 | MS Angles | 191 |
| 67 | 2 | Aluminium Flat | 191 |
| 68 | 3 | Copper Flat | 191 |
| 69 | 4 | Power Capacitor | 191 |
| | VIII | PART ' H ' | |
| 70 | 1 | Conduit Materials 16 Gauge | 192 |
| 71 | 2 | Conduit TEE Bends | 192 |
| 72 | 3 | Conduit Bends 16 Gauge | 192 |
| 73 | 4 | Conduit Inspection Bend 16 Gauge | 192 |
| | IX | PART ' I ' | |
| 74 | 1 | PVC (Rigid) Pipes (1.8mm Thick) with ISI Mark | 192 |
| 75 | 2 | PVC Rigid Bends | 193 |
| 76 | 3 | PVC Couples | 193 |
| 77 | 4 | PVC TEES | 193 |
| 78 | 5 | PVC Saddles | 193 |
| 79 | 6 | PVC Junction Boxes | 193 |
| 80 | 7 | PVC Hylem sheets | 193 |
| 81 | 8 | Insulation Tape PVC | 193 |
| | X | PART ' J ' | |
| 82 | 1 | Teak Wood Materials -T.W. Box concealed type | 194 |
| | XI | PART ' K ' | |
| 83 | 1 | Crimping Lugs | 194 |
| 84 | 2 | Cable Route Indicator | 194 |
| | XII | PART ' L ' | |
| 85 | 1 | Brass Screws | 194 |
| 86 | 2 | Coach Screws | 195 |
| 87 | 3 | Conduit Saddles | 195 |
| 88 | 4 | Sodium Vapour Fittings & Lamp | 195 |
| 89 | 5 | Sodium Vapour Lamp Fitting | 195 |
| 90 | 6 | Miniature Circuit Breakers | 195 |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|----------------|---------------------|---|-----------------|
| 91 | 7 | Plug and Sockets | 196 |
| 92 | 8 | Sheet Steel Enclosure for MCB's | 196 |
| 93 | 9 | RCCB/ ELCB | 196 |
| 94 | 10 | RCCB/ELCB (Four Pole) | 196 |
| 95 | 11 | HRC Fuses | 196 |
| 96 | 12 | MCB Isolators | 197 |
| | XIII | PART "M" | |
| 97 | 1 | Transformers | 197 |
| 98 | 2 | 11 KV Indoor Vaccum Circuit Breaker | 198 |
| 99 | 3 | 11 KV Outdoor Vaccum Circuit Breaker | 198 |
| 100 | 4 | 11 KV Indoor Ring Main Gear (RMG) | 199 |
| 101 | 5 | 11 KV Out door Ring main Gear (RMG) | 199 |
| 102 | 6 | HT Cables | 199 |
| 103 | 7 | Cables, Accssories and kits | 199 |
| | XIV | PART "N" | |
| 104 | 1 | Supply & Installation of Air-Conditioner with Copper Coil | 200 |
| 105 | 2 | Supply, Installation, Testing, Commissioning and Handing over of Air- Cooled self contained ductable AC Units | 200 |
| 106 | 3 | Accessories for Package AC | 200 |
| 107 | 4 | Generators with Standard Panel | 201 |
| 108 | 5 | Generators with Auto Main Failure (AMF) Panel | 202 |
| 109 | 6 | Exhaust Pipe with Silencer | 202 |
| | 7 | Passenger Lifts (G+3) | |
| 110 | A | 8 Persons Passenger Lift Car Size (1300 x 1100) | 202 |
| 111 | B | 10 Persons Passenger Lift Car Size (1300 x 1350) | 202 |
| 112 | C | 13 Persons Passenger Lift Car Size (2000 x 1100) | 202 |
| 113 | D | 20 Persons Passenger Lift Car Size (2000 x 1500) | 203 |
| | 8 | Bed - cum - Passenger Lifts (G+3)SS 304 Grade with 1m/sec. speed with ARD | |
| 114 | A | 15 Persons Passenger Lift Car Size (1000 x 2400) | 203 |
| 115 | B | 20 Persons Passenger Lift Car Size (1300 x 2400) | 203 |
| 116 | C | 26 Persons Passenger Lift Car Size (1600 x 2400) | 203 |
| | XV | PART "O" | |
| 117 | 1 | GI Steel tubular pole for street Light | 203 |
| | 2 | Lightning Rod | |
| 118 | a | Early Streamer Emission Air Terminal (ESEAT). Model: L | 206 |
| 119 | b | Early Streamer Emission Air Terminal (ESEAT). Model: S | 206 |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|---------|----------------|---|----------|
| 120 | c | Mounting Structure | 207 |
| 121 | d | Down Conductor | 207 |
| 122 | e | Test Link | 207 |
| 123 | f | Earth Electrode | 207 |
| 124 | g | Surdge Protection | 207 |
| | XVI | PART "P" | |
| 125 | 1 | Conference type Public Address System, Projector and Motorized Screen | 207 |
| | XVII | Vertical Three Phase Distribution Board With MCBS | |
| 126 | 1 | TPMCB DB With Metal Door Cover With IP 42 Protection | 209 |
| 127 | 2 | TPMCB DB With Acrylic Door Cover With IP 42 Protection | 209 |
| 128 | 3 | New Item-6 Way | 209 |
| 129 | 4 | Industrial Type TPMCB DB with IP 54 Protection | 210 |
| | XVIII | Horizontal Three Phase Distribution Board With MCBS | |
| 130 | 1 | TPMCB DB With Metal Door Cover With IP 42 Protection | 210 |
| 131 | 2 | TPMCB DB With Acrylic Door Cover With Ip 42 Protection | 210 |
| 132 | 3 | Industrial Type TPMCB DB With IP 54 Protection | 211 |
| | XIX | 7 Segments (3 Tier) 3 Phase Distribution Board With MCB | |
| 133 | 1 | Vertical TPN Distribution Board With MCBs (Exceeding100amps) | 211 |
| 134 | 2 | TPMCB DB With Metal /Acrylic Door Cover With IP 42 Protection | 211 |
| | XX | Single Phase Distribution Board With Mcbs | |
| 135 | 1 | SPMCB DB With Metal Door Cover With IP 42 Protection | 212 |
| 136 | 2 | SPMCB DB With Acrylic Door Cover With IP 42 Protection | 212 |
| 137 | 3 | Industrial Type TPMCB DB With IP 54 Protection. | 212 |
| | III (H) | Rates for Conveyance of Materials | |
| 1 | 1 | Rates for Conveyance of C.I. / G.I / D.I pipes and specials | 215 |
| 2 | 2 | Rates for Conveyance of M.S. pipes and specials | 216 |
| 3 | 3 | Rates for Conveyance of R.C.C. / P.S.C / B.W.S.C pipes and specials | 217 |
| 4 | 4 | Rates for Conveyance of A.C. pipes and specials | 218 |
| 5 | 5 | Rates for Conveyance of PVC / HDPE / GRP pipes and specials | 219 |
| 6 | 6 | Rates for Conveyance of SW pipes and specials | 220 |
| 7 | 7 | Rates for Conveyance of Pig lead and Yarn | 221 |
| 8 | 8 a | Rates for Conveyance of Materials by Road in Hills | 222 |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|---------|---------------|---|----------|
| 9 | 8 b | Rates for Conveyance of Materials by Road in Plains | 223 |
| 10 | 9 | Rates for Conveyance of Materials by Head load | 224 |
| | IV (A) | Rates for Works | |
| 1 | 1-4a | Infiltration Works | 227-232 |
| 2 | 5a - 14f | Pipe Laying Works | 233-252 |
| 3 | 15 a. | Slow Sand Rapid Sand Filter Works | 253 |
| 4 | 16 | Drainage Works | 253 |
| 5 | 17 | HDPE Jointing | 254 |
| 6 | 18 | Jointing of Mechanical joint collars | 254 |
| 7 | 19 | Disjointing of GI pipes | 255 |
| 8 | 20 | Welding of GI pipes. | 255 |
| | IV (B) | Rates for Earthwork Excavation other than pipe laying works and open wells | |
| 1 | 1-18 | Earth Excavation other than pipe laying works and open wells | 259 |
| 2 | 19 a) | Refilling with excavated sand | 260 |
| 3 | 19 b) | Refilling with excavated soil (other than sand) | 260 |
| 4 | 20 | Quarrying and Blasting | 260 |
| | IV (C) | Rates for earthwork excavation for pipe laying works for water Supply and Sewerage works | |
| 1 | I | Earthwork excavation in | 265 |
| | a) | Sand, silt or other loose soil -SS 20B | 265 |
| | b) | Hard stiff clay,Stiff black Cotton etc.,-SS 20B | 265 |
| 2 | II a) | In Soft Disintegrated rock etc., not requiring blasting | |
| | b) | In Dense Medium rock not requiring blasting | 265 |
| | c) | In Dense Medium rock requiring blasting | 265 |
| | d) | In Hard Rock including blasting | 265 |
| 3 | III a) | Earth work excavation control basting - in DMR | 265 |
| | b) | Earth work excavation control basting - in HR | 266 |
| | IV (D) | Rates for earthwork excavation and refilling for pipe line works having base width 1.25m & below on linear Measurement Basis | |
| 1 | 1 | Earthwork excavation and Refilling for pipe line works having base width 1.25m & below on Linear Measurement Basis. | 269-271 |
| | IV (E) | Rates for Miscellaneous works | |
| 1 | 1-7. | Plumbing | 275 |
| 2 | 8-21. | Drilling works | 276-288 |
| 3 | 22 | Surveying and Levelling by Total Station Method | 288 |
| 4 | 23 | Dismantling | 289 |

| Sl. No. | Category No. | CONTENTS | PAGE NO. |
|----------------|---------------------|--|-----------------|
| 5 | 24 | Open well excavation | 291 |
| 6 | 25 | Rate for work by Deploying Machineries | 293 |
| 7 | 26 | Lift charges - concrete - Brick or stone Masonry above or below ground level | 293 |
| 8 | 27 | Concrete Vibrators | 295 |
| 9 | 28 | plastering | 295 |
| 10 | 29 | White Washing and Colour wasing and distempering | 296 |
| 11 | 30 | Painting, Wood oiling, Tarring, Vanishing , Bee's Waxing etc | 296 |
| 12 | 31 | Miscellaneous | 296 |
| 13 | 32 | River Conservancy of Korambu Works | 296 |
| 14 | 33 | Labour Wrought and put up for Doors , Windows and Ventilators | 297 |
| 15 | 34 | Breaking Metals | 298 |
| 16 | 35 | Cement Mortar | 298 |
| 17 | 36 | Metal & Iron Works | 298 |
| 18 | 37 | Conveyance of excavated earth from the narrow street (width less than 3.75m) | 298 |
| 19 | 38 | Re-Conveyance of earth from the stock yard to the narrow street (width less than 3.75m) for refilling the trenches | 298 |
| 20 | 39 | Disposal of surplus earth including loading and conveyance within a distance of 5 km | 298 |
| 21 | 40 | Lighting arrangements (maintenance works) with genset: | 298 |
| 22 | 41 | Hire charges for deploying earth moving machinery (JCB/Poclain) for earthwork | 300 |
| 23 | 42 | Supply and delivery of Natural Pebbles filter media | 300 |
| 24 | 43 | Barricading for pipeline works for the WSS / UGSS works | 300 |
| 25 | 44 | Shoring and Strutting for the WSS / UGSS works | 301 |
| 26 | 45 | Trenchless Technology for pipe laying work in railway/NHAI/SH/NH crossings. | 302 |
| 27 | 46 | Replacement of under ground utilities (HSC pipes, distribution system & pumping main pipes, etc.) | 306 |

I. GENERAL NOTES

I. GENERAL NOTES

1. For items not covered in the schedule of rates, the Superintending Engineer can fix the rates based on the lowest sealed quotations duly observing all the departmental formalities under intimation to the concerned Chief Engineer and Head Office.
2. For special nature of works, for which rates are not covered in the PWD Schedule of Rates, such as Road works, Water Supply, Drainage etc., separate schedule of rates issued by the respective Officers / Department / Board are to be followed.
3. Extra percentage other than those for the specified areas noted below, shall not be allowed.

1. Corporation Limits.

An extra 10% on the Rates of Labour, Rates of Works and for Head Load shall be allowed for the works in Erstwhile Chennai Corporation limit and the belt area of 32 km around erstwhile Chennai Corporation limits (i.e) prior to formation of Greater Chennai Corporation, Madurai Corporation limits, Coimbatore Corporation limits and also for works in Hosur Taluk.

2. **An extra 5%** on the Rates of Labour, Rates of Works and for Head Load shall be allowed for the works in Trichy, Salem, Tirunelveli, Tiruppur, Erode, Thoothukudi and Vellore Corporation limits.

3. Restricted areas:

- I. **An extra 10%** on the Rates of Labour and Rates of Works shall be allowed for **sewer works under unhygienic condition**.
- II. **An extra 10%** on the Rates of Labour, Rates of Works and Conveyance charges shall be allowed for works in the campus of **Central Jails**.
- III. **An extra 5%** on the Rates of Labour, Rates of Works and Conveyance charges shall be allowed for works in the campus of **Sub-Jails**.
- IV. **An extra 20%** on the Rates of Labour, Rates of Materials, Rates of Works, Conveyance Charges and Head Load shall be allowed for works in **Reserve Forest Areas**.

4. Special Nature of Works

- i. 5 times over the basic rates for earthwork excavation for both rural and urban areas is allowed **for putting trial pits**.
- ii. 5 times over the basic rates for earthwork excavation **for leak rectification works** is allowed.

- iii. If the works are done (**leak rectification works**) in odd hours (i.e) **8.00PM to 8.00AM of the next day**, 7.50 times over the basic rate is allowed.
- ii. For **individual footings of the service reservoirs, valve pits** double the relevant rate for earthwork excavation is allowed.
- iii. An extra 5% is allowed for laying of **sewers under UGSS** for earthwork excavation alone below 4m depth.

5. For Works in Hills:

As the transport facilities in most of the Hilly Areas are now considerably improved and as there is no necessity for allowing extra percentage as hitherto followed, the Hilly Areas are now again regrouped as detailed hereunder and the extra percentage allowable has been revised accordingly and fixed.

The conveyance table approved and furnished in the Schedule of Rates under the Head "**Conveyance table**", "**Conveyance of materials by Road on hills**" shall be adopted for all works in hills.

- i. For works in **Nilgiris District an extra 40% on the** rates of labour, rates of work, head load and **an extra 25 %** on the rates of materials shall be allowed.
- ii. For works in **Mudumalai Sanctuary, Shandy Nallah Sheep Farm, Dansandle areas, an extra 40%** over rates of labour, rates of work and head load and **an extra 25%** on the rates of materials shall be allowed.
- iii. For works in **Valparai Area an extra 40% on the** rates of labour, rates of work, head load and **an extra 25%** on the rates of materials shall be allowed.
- iv. For works in **Gudiyalathur, Siruvani, Thavalamalai Hills, Talavadi Hills, Bargur Hills, Anamalai, Chennimalai and Sivanmalai Hills an extra 20%** on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed.
- v. **For works in Western Ghats** of Madurai, Virudhunagar, Coimbatore, Tirunelveli & Kanyakumari Districts **an extra 20%** on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed.
- vi. (a) **An Extra 50%** on the Rates of Labour for works in Thekkady shall be allowed.
- (b) **Add 25% extra** shall be allowable on the Rates of Materials which are to be supplied at Thekkady, subject to the condition that there shall not be any extra on conveyance, tollgate fee, interstate allowance, etc.

The conveyance charge as applicable for Ghat Road, Cart Track, etc., as per schedule of rates is only applicable.

- vii. **An extra 60%** shall be allowable on the Rates of Materials to be supplied for Periyar Dam Site subject to the condition that there shall not be any extra on conveyance, tollgate fee, interstate allowance, etc. The conveyance charge as applicable for Ghat Road, Cart Track, etc., as per Schedule of Rates is only applicable.
- viii. **An extra 100%** on the Rates of Labour for works in Periyar Dam Site under normal condition shall be allowed.
- ix. **An extra 150%** on the Rates of Labour for works in Periyar Dam Site under hanging condition shall be allowed.
- x. **An extra 50%** on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed for the works at Lower Camp above Kuruvanthu Bridge, Bodi Hills, Cumbam mettu, Sirumalai, Pachai Kamatchi Hills, Palani Hills, Thiruparankundram Hills, Idumban Hills, Megamalai Panchayat and Thummakundu Panchayat.
- xi. **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the rates of materials shall be allowed for the works at Kodaikanal.
- xii. **An extra 25%** on the Rates of Labour, Rates of Materials, Rates of Works and Head Load shall be allowed for works in Yercaud, Yercaud Sub-Taluk, Boothamalai, Aranuthumalai, Sarugumalai and Thiruchengode Hills in Salem & Namakkal District.
- xiii. **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Kalrayan Hills, Pachamalai Hills and Kolli Hills in Salem & Namakkal Districts.
- xiv. **An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Jawadhu Hills, Elagiri Hills, Kalrayan Hills, Nakkanamalai Hills, Naickerner Hills in Thiruvannamalai and Vellore Districts.
- xv. **An extra 40%** on the Rates of Labour, Rates of works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Piranmalai covering Oduvarpatti, Kattugudipatti, Ponnadaipattu, V.Pudur Village, Mamalai covering Vannar Irruppu, Nagamangalam Villages, Usilamalai covering Poolankurichi Village, Hillocks at Musundapatti, Usilam, Ammapatti and Thuthampatti in Sivagangai District.

- xvi. An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Chitteri Hills, Sittiling in Kalrayan Hills in Dharmapuri District.
- xvii. An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Kalrayan Hills in Cuddalore and Villupuram Districts.
- xviii. An extra 40%** on the Rates of Labour, Rates of Works and Head Load and **an extra 25%** over the Rates of Materials shall be allowed for works in Pachamalai Hills in Trichy, Karur and Perambalur Districts.

6. ISLANDS in Ramanathapuram District:

a. For works in Rameswaram Island:

An extra 25% on the Rates of Labour, Rates of Works and Head Load shall be allowed.

b. For works in Other Islands:

An extra 125% on the Rates of Labour, Rates of Materials, Rates of Works, Conveyance Charges and Head Load shall be allowed for other Islands in Ramanathapuram viz., (1) Upputhannie Island, (2) Puleevilaichalli Island, (3) Aalaippar Island, (4) Valimunai Island, (5) Appa Island, (6) Thalaiyari Island, (7) Valai Island, (8) Mullai Island, (9) Manoli Island (10) Minoliputti Island, (11) Nadu Island, (12) Nallathannie Island, (13) Pullivasal Island, 14) Poomarichan Island, 15) Muyal Island, (16) Singala Island and (17) Kurusedar Island.

c. For works in Islands of Thoothukudi District:

An extra 125% on the Rates of Labour, Rates of Materials, Rates of Works, Conveyance Charges and Head Load shall be allowed for Van, Kasuvar, Karaichalli Island and Vilankuchali Islands.

7. TUNNELS:

An extra 15% on the Rates of Labour and Rates of Works shall be allowed for works inside Tunnels.

8. DAM SITES UNDER HANGING CONDITION (Other than Periyar Dam Site)

An extra 75% on the Rates of Labour employed for the items of works, which may have to be executed by **hanging from the top of Dam through slings (or) rope ladders to work in dizzy height. (This will apply only for maintenance and repair works).**

9. General Foot Note:

- i) The rates of labour means the labour rates fixed under the head **Rates of Labour**.
- ii) **Rates of works** includes the labour for earthwork, refilling foundation, dismantling, jungle clearance, head load etc., also where human labour alone is involved.
- iii) The percentage increase provided for the materials are applicable **only for the materials which are quarried or manufactured locally in the specified area**.
- iv) The percentage increase provided for **Rates of Works** are allowable only on the items where human labour alone is involved.
- v) The percentage increase provided for **Conveyance Charges** are allowable for the distance covered in the specified area / Special Tract only.
- vi) The extra percentage allowable as specified above shall not be applicable for the materials / works covered under "Rates of other construction materials" and "Rates of Electrical items of works". Similarly, no conveyance charges shall be allowed for the items covered under these two categories. The rates approved therein are applicable at site of work.
- vii) While adopting source of any materials inside the special tracts viz., Corporation limits, Reserve Forest Areas, Hilly areas, Islands, Dam Sites etc., where extra percentage allowable for the materials which are quarried or manufactured locally, it is the duty of the officer in charge of the work (not below the rank of Assistant Executive Engineer), to analyse and confirm whether the finished cost of such materials/ works are higher if the materials are conveyed and brought to the site from the areas outside the specified area, where such extra percentage are not permissible.
- viii) The necessity of inclusion of relevant footnotes in respect of the districts covered under their region other than the general notes furnished above, if any, may be analysed and recommendations sent to the Engineer-in-Chief, WRD and Chief Engineer (General), PWD, Chennai-5 for consideration by the Schedule of Rates Committee and approval.
- ix) As per Notification No.31/2017- Central Tax(Rate) dated 13th October, 2017 the concessional rate of GST at 12 % [CGST at 6% + SGST at 6%] is leviable for any Government contract, whether Civil or Electrical, irrespective of the GST rate applicable on purchase of goods used in the execution of Government Contract.

The contractor is eligible to get refund of excess tax paid over or liable to pay tax as per Notification No.20/2017, Central Tax (Rate) dated 22.8.2017, Notification No.24/2017, Central Tax (Rate) dated 21.9.2017 and Notification No.31/2017, Central Tax (Rate) dated 13.10.2017.

- x) Further, for Works Contract services involving predominantly earth works (that is, constituting more than 75 % of the value of the works contract) supplied to Central Government, State Governments, Local Authority, Governmental Authority for Government Entity shall be taxed at 5 % as per Notification No.31/2017 - Central Tax (Rate) dated 13th October, 2017. Therefore, for such contract the amount of GST is to be calculated at 5 % [CGST at 2.5 % + SGST at 2.5 %) over and above the Basic rate.

10. LEAD

District-wise average lead may be approved by the concerned Chief Engineers based on the approved quarry by the PWD.

**STATEMENT SHOWING THE EXTRA PERCENTAGE ALLOWABLE AS PER
GENERAL NOTE TO SCHEDULE OF RATES FOR THE YEAR 2018-2019
(with effect from 01-06-2018)**

| Sl. No. | Area | PERCENTAGE EXTRA ALLOWABLE ON | | | | |
|---------|--|-------------------------------|----------|---|------------|-----------|
| | | Labour | Material | Rate of work (where human labour involved) | Conveyance | Head Load |
| 1 | For works in Erstwhile Chennai Corporation limits and the belt area of 32 KM around erstwhile Chennai Corporation limits (i,e) prior to formation of Greater Chennai Corporation, Madurai Corporation limits, Coimbatore Corporation limits and also for works in Hosur Taluk. | 10% | — | 10% | — | 10% |
| 2. | For works in Trichy, Salem, Tirunelveli, Tiruppur, Erode, Thoothukudi and Vellore Corporation limits. | 5% | — | 5% | - | 5% |
| 3. | Restricted Areas | | | | | |
| i | For Sewer works under unhygienic condition | 10% | — | 10% | — | — |
| ii | For works in Central jail Campus | 10% | — | 10% | 10% | — |
| iii | For works in Sub Jail Campus | 5% | — | 5% | 5% | — |
| iv | For works in Reserve Forest Areas | 20% | 20% | 20% | 20% | 20% |
| 4 | Hills | | | | | |
| i | For works in Nilgiris District | 40% | 25% | 40% | — | 40% |
| ii | For works at Mudumalai Sanctuary, Shandy Nalla Sheep Farm, Dansandle Area | 40% | 25% | 40% | — | 40% |
| iii | For works at Valparai | 40% | 25% | 40% | — | 40% |
| iv | For works at Gudiyalathur, Siruvani, Thavalamalai Hills, Thalavadi Hills, Bargur Hills, Anamalai, Chennimalai and Sivanmalai Hills | 20% | 20% | 20% | — | 20% |
| v | For works in Western Ghats of Madurai, Virudhunagar, Coimbatore, Tirunelveli and Kanyakumari Districts. | 20% | 20% | 20% | — | 20% |

| Sl. No. | Area | PERCENTAGE EXTRA ALLOWABLE ON | | | | |
|---------|---|-------------------------------|----------|--|------------|-----------|
| | | Labour | Material | Rate of work (where human labour involved) | Conveyance | Head Load |
| | In Madurai, Theni & Dindigul Districts. | | | | | |
| vi | For works at Thekkady | 50% | 25% | — | — | — |
| vii | For works at Periyar Dam Site | — | 60% | — | — | — |
| viii | For works at Periyar Dam Site under normal condition | 100% | — | — | — | — |
| ix | For works at Periyar Dam Site under hanging condition | 150% | — | — | — | — |
| x | For works at Lower Camp above Kuruvanthu Bridge, Bodi Hills, Cumbum Mettu, Sirumalai, Pachai Kamatchi Hills, Palani Hills, Tiruparankundram Hills, Idumban Hills, Megamalai Panchayat and Thummakundu Panchayat | 50% | 50% | 50% | — | 50% |
| xi | For works at Kodaikanal | 40% | 25% | 40% | — | 40% |
| xii | For works at Yercaud Hills, Yercaud Sub - Taluk, Boothamalai, Aranuthumalai, Sarugumalai and Tiruchengodu Hills in Salem & Namakkal Districts. | 25% | 25% | 25% | — | 25% |
| xiii | For works at Kalrayan Hills, Pachamalai Hills, Kolli Hills in Salem and Namakkal Districts. | 40% | 25% | 40% | — | 40% |
| xiv | For works at Jawadhu Hills, Elagiri Hills, Kalrayan Hills, Nakkanamalai Hills, Naickenneri Hills in Thiruvannamalai and Vellore Districts. | 40% | 25% | 40% | — | 40% |
| xv | For works at Piranmalai covering Oduvarpatti, Kattugudipatti, Pannadaipattu, V.Pudur Villages, Mamalai covering Vannar Iruppu, Nagamangalam Villages, Usilamalai covering Poolankurichi Village, Hillocks at Musundapatti, Usilam, Ammapatty and Thuthampatti in Sivagangai District. | 40% | 25% | 40% | — | 40% |

| Sl. No. | Area | PERCENTAGE EXTRA ALLOWABLE ON | | | | |
|---------|---|-------------------------------|----------|--|------------|-----------|
| | | Labour | Material | Rate of work (where human labour involved) | Conveyance | Head Load |
| xvi | For works at Chitheri Hills, Sittiling in Kalrayan Hills in Dharmapuri District. | 40% | 25% | 40% | — | 40% |
| xvii | For works at Kalrayan Hills in Cuddalore and Villupuram Districts. | 40% | 25% | 40% | - | 40% |
| xviii | For works at Pachamalai Hills in Trichy, Karur and Perambalur Districts. | 40% | 25% | 40% | — | 40% |
| 5 | ISLANDS | | | | | |
| I | For works at Rameswaram Island in Ramanathapuram District. | 25% | - | 25% | - | 25% |
| ii | For works in other Islands viz., Upputhannie, Puleevilaichalli, Alaiappar, Valimunai, Appa, Thalaiyari, Valai, Mullai, Manoli, Minidiputti, Nadu, Nallathannie, Pullivasal, Poomarichan, Muyal, Singala, Kuruseedar Islands in Ramanathapuram District. | 125% | 125% | 125% | 125% | 125% |
| iii | For works in Van, Kasvar, Karaichalli and Vilankurichi Islands in Thoothukudi District. | 125% | 125% | 125% | 125% | 125% |
| 6 | TUNNELS | | | | | |
| i | Where human labour alone is involved | 15% | - | 15% | - | - |
| 7 | DAM SITES UNDER HANGING CONDITION | | | | | |
| i. | For works at dam sites other than Periyar Dam Site, which may be executed by hanging from top of dam through slings or rope ladders to work in dizzy height. | 75% | - | - | - | - |

II. RATES FOR LABOUR

TWAD BOARD
II. RATES FOR LABOUR

| Schedule Item No. | Description | Unit | Rate for 2018-19 in Rupees |
|-------------------|---|------|----------------------------|
| 1 | Driller | Day | 526.00 |
| 2 | Assistant Driller | Day | 432.00 |
| 3 | Special heavy labour for driving sheet pile | Day | 526.00 |
| 4 | Boring Attendant | Day | 384.00 |
| 5 | Water Meter Reader | Day | 367.00 |
| 6 | Helper for Rig | Day | 384.00 |
| 7 | a. Electrician with LEE/DEE and 'C' certificate | Day | 672.00 |
| | b. Electrician with LEE/ DEE | Day | 644.00 |
| | c. Electrician with ITI and 'C' Certificate | Day | 576.00 |
| | d. Electrician with ITI 'and B' Certificate | Day | 526.00 |
| | e. Electrician with ITI | Day | 526.00 |
| 8 | a. Pump Operator with ITI | Day | 526.00 |
| | b. Pump Operator without ITI | Day | 447.00 |
| 9 | Laboratory Attender SSLC/ 10th Std passed | Day | 367.00 |
| 10 | a. Filter Bed Operator with D.M.E. | Day | 644.00 |
| | b. Filter Bed Operator with ITI | Day | 526.00 |
| | c. Filter Bed operator without I.T.I. | Day | 447.00 |
| 11 | Cleaner for Treatment Unit, Pump and vehicles | Day | 367.00 |
| 12 | Boring Mechanic for Hand Boring set | Day | 447.00 |
| 13 | Turn Cock (Experience in pipe line Operation and maintenance) | Day | 367.00 |
| 14 | Fitter (Pipe laying / Bar bending) I Class | Day | 493.00 |
| 15 | Fitter (Pipe laying / Bar bending) II Class | Day | 458.00 |
| 16 | Sewer Cleaner | Day | 367.00 |
| 17 | Store Attender SSLC /10th Std Passed | Day | 367.00 |
| 18 | Divers and Well Sinkers | Day | 672.00 |
| 19 | Hammer Man (Geophysical survey) | Day | 367.00 |
| 20 | Geological Assistant | Day | 539.00 |
| 21 | Maintenance Assistant | Day | 384.00 |
| 22 | Plant Operator, SSLC passed with 3 years experience | Day | 432.00 |
| 23 | Reverse Osmosis (R.O.) Plant Operator SSLC passed with 3 years experience | Day | 526.00 |
| 24 | Mechanic with ITI | Day | 526.00 |
| 25 | a. Carpenter I Class | Day | 555.00 |
| | b. Carpenter II Class | Day | 508.00 |
| 26 | a. Cleaner I Gr. | Day | 295.00 |
| | b. Cleaner II Gr. | Day | 280.00 |
| 27 | a. Fitter I Class | Day | 501.00 |
| | b. Fitter II Class | Day | 467.00 |

| Schedule Item No. | Description | Unit | Rate for 2018-19 in Rupees |
|-------------------|---|------|----------------------------|
| 28 | Floor Polisher | Day | 437.00 |
| 29 | Gardener | Day | 332.00 |
| 30 | Head Mazdoor for Well sinking | Day | 367.00 |
| 31 | a. Driver (Light duty) | Day | 437.00 |
| | b. Driver (Heavy duty) | Day | 467.00 |
| 32 | Jumper Mazdoor | Day | 332.00 |
| 33 | a. Maistry, Road Inspector & Work Inspector | Day | 421.00 |
| | b. Maistry, Road Inspector & Work Inspector (Degree holder) | Day | 467.00 |
| 34 | a. Mason for Brick Work - I Class | Day | 567.00 |
| | b. Mason for Brick Work - II Class | Day | 508.00 |
| 35 | a. Mason for Stone Work - I Class | Day | 567.00 |
| | b. Mason for Stone Work - II Class | Day | 508.00 |
| 36 | a. Mazdoor Category I | Day | 355.00 |
| | b. Mazdoor Category II | Day | 320.00 |
| | c. Head Mazdoor | Day | 367.00 |
| 37 | a. Moplah - I Class | Day | 436.00 |
| | a. Moplah - II Class | Day | 403.00 |
| 38 | a. Painter/Varnisher-I Class | Day | 454.00 |
| | b. Painter/Varnisher-II Class | Day | 421.00 |
| 39 | Pile Driver | Day | 403.00 |
| 40 | a. Plumber I Class | Day | 493.00 |
| | b. Plumber II Class | Day | 458.00 |
| 41 | Pump Driver | Day | 367.00 |
| 42 | a. Stone cutter- I Class | Day | 436.00 |
| | b. Stone cutter- II Class | Day | 403.00 |
| 43 | a. Welder/ Bracer - I Class | Day | 436.00 |
| | b. Welder/ Bracer - II Class | Day | 403.00 |
| 44 | Well sinking Diver working with Helmet (above two metres depth of water) | Day | 508.00 |
| | Technical Assistant | | |
| 45 | a. Technical Assistant Gr.I (BE passed) | Day | 728.00 |
| | b. Technical Assistant- Gr.II (Diploma in Engg. Passed / B.E. failed/ Degree in Geology for ground water works) | Day | 656.00 |
| | c. Technical Assistant Gr.III (Diploma in Engg. Failed / ITI (Civil) passed) | Day | 555.00 |
| 46 | a. Laboratory Assistant. Gr.I (Post Graduate in Science) | Day | 555.00 |
| | b. Laboratory Assistant. Gr.II (Degree in Science/ Degree in Geology for ground water) | Day | 508.00 |
| | c. Laboratory Assistant Grade III (with Degree qualification to work as works clerk) | Day | 458.00 |

| Schedule Item No. | Description | Unit | Rate for 2018-19 in Rupees |
|-------------------|---|------|----------------------------|
| 47 | a. Mazdoor employed for Geological mapping | Day | 355.00 |
| | b. Mazdoor employed for Pitting, Trenching, Sampling and Drilling works | Day | 355.00 |
| | c. Mazdoor employed for Geophysical Investigation works | Day | 355.00 |
| | d. Head Mazdoor to supervise exploratory works | Day | 375.00 |
| 48 | Mixer Operator (including concrete mixer) | Day | 386.00 |
| 49 | Mixer Driver | Day | 367.00 |
| 50 | Compressor Operator | Day | 386.00 |
| 51 | Computer Operator | | |
| | a. Gr.I [B.E. (Computer Science)/ M.Sc., (Computer Science)] | Day | 728.00 |
| | b. Gr.II [B.Sc., (Computer Science)/ Diploma in Computer Science] | Day | 656.00 |
| 52 | Stone & Crusher Operator | Day | 386.00 |
| 53 | Heavy Mazdoor | Day | 386.00 |
| 54 | Wireman Grade I/ Electrician Grade I | Day | 494.00 |
| 55 | Wireman Grade II/ Electrician Grade II | Day | 467.00 |
| 56 | Electrical Helper | Day | 352.00 |
| 57 | Laboratory Attendant | Day | 314.00 |
| 58 | Electrical Maistry | Day | 539.00 |
| 59 | Axe Mazdoor | Day | 332.00 |
| 60 | Blacksmith - 1st Class | Day | 437.00 |
| 61 | Blacksmith - 2nd Class | Day | 403.00 |
| 62 | Boat Mazdoor | Day | 367.00 |
| 63 | Bullocks pair with driver (with bandy) | Day | 656.00 |
| 64 | Bullocks single with driver (with bandy) | Day | 472.00 |
| 65 | Caulker | Day | 367.00 |
| 66 | Ferry Mazdoor | Day | 367.00 |
| 67 | Hammer Mazdoor | Day | 352.00 |
| 68 | Mechanic - 1st Class | Day | 437.00 |
| 69 | Mechanic - 2nd Class | Day | 403.00 |
| 70 | Navagonies or Javali Man - 1st Class | Day | 367.00 |
| 71 | Sawyer | Day | 403.00 |
| 72 | Smith 1st Class | Day | 436.00 |
| 73 | Smith 2nd Class | Day | 403.00 |
| 74 | Sprayer Mazdoor (for bitumen, tar etc.,) | Day | 332.00 |
| 75 | Syrang-1st Class | Day | 436.00 |
| 76 | Syrang-2 nd Class | Day | 403.00 |
| 77 | Thatcher | Day | 352.00 |
| 78 | Tinker 1 st Class | Day | 352.00 |
| 79 | Tinker 2 nd Class | Day | 332.00 |
| 80 | Turner 1 st Class | Day | 403.00 |

| Schedule Item No. | Description | Unit | Rate for 2018-19 in Rupees |
|-------------------|--|------|----------------------------|
| 81 | Turner 2 nd Class | Day | 367.00 |
| 82 | Time Keeper Ist Class | Day | 436.00 |
| 83 | Time Keeper 2nd Class | Day | 403.00 |
| 84 | Well Diver for removing silt - 1 st Class | Day | 436.00 |
| 85 | Well Diver for removing silt - 2nd Class | Day | 403.00 |
| 86 | Well sinker - 1st Class | Day | 493.00 |
| 87 | Well sinker - 2nd Class | Day | 458.00 |
| 88 | Wodder | Day | 367.00 |
| 89 | Cinema Operator (ITI Passed) | Day | 458.00 |
| 90 | B.Sc., (Agriculture) Passed- Technical Assistant | Day | 656.00 |
| 91 | Irrigation Community Organiser Grade I [B.E(Agri) passed /B.Sc.,(Agri)Passed/PG (Geology) & Rural Development] | Day | 702.00 |
| 92 | Irrigation Community Organiser Grade II [B.E(Agri) failed/ B.Sc.,(Agri)failed /Diploma in Agri. Passed)] | Day | 585.00 |
| 93 | Heat Master Operator | Day | 367.00 |
| 94 | Raker | Day | 367.00 |
| 95 | Lift Operator | Day | 421.00 |
| 96 | Sound Service Operator | Day | 352.00 |

III (A) RATES FOR MATERIALS

**1.0 UN PLASTICIZED PVC PIPES FOR POTABLE WATER SUPPLY
AS PER IS 4985 / 2000**

| Sl. No | Description | Unit | Rate for 2018-19 in Rupees | | | |
|------------|--------------|-------|----------------------------|------------|-------------|------------|
| | | | I Quarter | II Quarter | III Quarter | IV Quarter |
| I | 4KSC | | | | | |
| 1 | 63mm | Metre | 54.00 | 54.50 | | |
| 2 | 75mm | Metre | 76.00 | 76.50 | | |
| 3 | 90mm | Metre | 106.00 | 106.50 | | |
| 4 | 110mm | Metre | 153.00 | 154.00 | | |
| 5 | 140mm | Metre | 251.00 | 252.50 | | |
| 6 | 160mm | Metre | 322.00 | 324.00 | | |
| 7 | 180mm | Metre | 408.00 | 410.50 | | |
| 8 | 200mm | Metre | 502.00 | 505.00 | | |
| II | 6KSC | | | | | |
| 1 | 50mm | Metre | 48.00 | 48.50 | | |
| 2 | 63mm | Metre | 77.00 | 77.50 | | |
| 3 | 75mm | Metre | 107.00 | 107.50 | | |
| 4 | 90mm | Metre | 153.00 | 154.00 | | |
| 5 | 110mm | Metre | 217.00 | 218.50 | | |
| 6 | 140mm | Metre | 353.00 | 355.00 | | |
| 7 | 160mm | Metre | 453.00 | 455.50 | | |
| 8 | 180mm | Metre | 588.00 | 591.50 | | |
| 9 | 200mm | Metre | 723.00 | 727.00 | | |
| III | 10KSC | | | | | |
| 1 | 50mm | Metre | 77.00 | 77.50 | | |
| 2 | 63mm | Metre | 120.00 | 120.50 | | |
| 3 | 75mm | Metre | 171.00 | 172.00 | | |
| 4 | 90mm | Metre | 227.00 | 228.50 | | |
| 5 | 110mm | Metre | 363.00 | 365.00 | | |
| 6 | 140mm | Metre | 585.00 | 588.50 | | |
| 7 | 160mm | Metre | 760.00 | 764.50 | | |
| 8 | 180mm | Metre | 990.00 | 995.50 | | |
| 9 | 200mm | Metre | 1192.00 | 1198.50 | | |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO

1.1 PVC CASING PIPE AS PER IS 12818 / 2010

| Sl. No | Description | Unit | Rate for 2018-19 in Rupees | | | |
|--------|-------------|-------|----------------------------|------------|-------------|------------|
| | | | I Quarter | II Quarter | III Quarter | IV Quarter |
| 1 | 150mm CS | Metre | 629.00 | 632.00 | | |
| 2 | 150mm CM | Metre | 795.00 | 799.00 | | |
| 3 | 150mm RS | Metre | 936.00 | 940.00 | | |
| 4 | 200mm CS | Metre | 1148.00 | 1153.50 | | |
| 5 | 200mm CM | Metre | 1442.00 | 1449.00 | | |
| 6 | 200mm RS | Metre | 1708.00 | 1715.00 | | |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO

CS - Casing Shallow depth up to 80m
CM - Casing Medium depth 81m to 250m
RS - Ribbed screen pipe

**1.2 UN PLASTICIZED NON - PRESSURE POLYVINYL CHLORIDE (PVC-U)
PIPES FOR USE IN UNDERGROUND DRAINAGE AND SEWERAGE
SYSTEMS AS PER IS 15328/2003**

| Sl. No. | Description | Unit | Rate for 2018- 19 in Rupees |
|------------|---------------------------|-----------|-----------------------------|
| I | SN8-SDR 34(S 16.5) | | |
| 1 | 110mm | Per Metre | 226.00 |
| 2 | 125mm | Per Metre | 301.00 |
| 3 | 160mm | Per Metre | 483.00 |
| 4 | 200mm | Per Metre | 763.00 |
| 5 | 250mm | Per Metre | 1187.00 |
| 6 | 315mm | Per Metre | 1917.00 |
| II | SN4-SDR 41(S 20) | | |
| 1 | 125mm | Per Metre | 244.00 |
| 2 | 160mm | Per Metre | 331.00 |
| 3 | 200mm | Per Metre | 525.00 |
| 4 | 250mm | Per Metre | 822.00 |
| 5 | 315mm | Per Metre | 1272.00 |
| III | SN2-SDR 51(S 25) | | |
| 1 | 160mm | Per Metre | 333.00 |
| 2 | 200mm | Per Metre | 514.00 |
| 3 | 250mm | Per Metre | 807.00 |
| 4 | 315mm | Per Metre | 1304.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO

1.3 UPVC- Column Pipe

| Sl.No. | Description | Unit | Rate for 2018 -19 in Rupees |
|--------|-------------|-----------|-----------------------------|
| 1 | 25mm | Per Metre | 67.00 |
| 2 | 32mm | Per Metre | 107.00 |
| 3 | 40mm | Per Metre | 143.00 |
| 4 | 50mm | Per Metre | 231.00 |
| 5 | 65mm | Per Metre | 298.00 |
| 6 | 80mm | Per Metre | 412.00 |
| 7 | 100mm | Per Metre | 618.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

1.4 PVC SPECIALS AS PER IS 7834/1987

| Sl.No. | Description | Unit | Rate for 2018 -19 in Rupees |
|--------|-----------------------------|------|-----------------------------|
| | PVC THREADED COUPLER | | |
| 1 | 63 mm x 50 mm | Each | 40.00 |
| 2 | 75 mm x 50 mm | Each | 62.00 |
| 3 | 90 mm x 80 mm | Each | 78.00 |
| 4 | 110 mm x 100 mm | Each | 139.00 |
| 5 | 140 mm x 125 mm | Each | 195.00 |
| | UNEQUAL TEE | | |
| 1 | 63 mm x 50 mm | Each | 71.00 |
| 2 | 75 mm X 50 mm | Each | 139.00 |
| 3 | 90 mm x 50 mm | Each | 168.00 |
| 4 | 90 mm x 63 mm | Each | 168.00 |
| 5 | 90 mm x 75 mm | Each | 170.00 |
| 6 | 110 mm x 50 mm | Each | 248.00 |
| 7 | 110mm x 63 mm | Each | 248.00 |
| 8 | 110 mm x 90mm | Each | 252.00 |
| 9 | 140mm x 50 mm | Each | 410.00 |
| 10 | 140 mm x 63 mm | Each | 410.00 |
| 11 | 140 mm x 90 mm | Each | 410.00 |
| 12 | 140 mm x 110 mm | Each | 410.00 |
| 13 | 160 mm x 50 mm | Each | 503.00 |
| 14 | 160 mm x 63 mm | Each | 503.00 |
| 15 | 160 mm x 90 mm | Each | 503.00 |
| 16 | 160 mm x 110mm | Each | 503.00 |
| 17 | 160 mm x140 mm | Each | 595.00 |
| | PVC REDUCER COUPLER | | |
| 1 | 63 mm x 50 mm | Each | 41.00 |
| 2 | 75 mm x 63 mm | Each | 43.00 |
| 3 | 90 mm x 63 mm | Each | 67.00 |
| 4 | 90 mm x 75 mm | Each | 67.00 |
| 5 | 110 mm x 63 mm | Each | 84.00 |
| 6 | 110 mm x 75 mm | Each | 84.00 |
| 7 | 110 mm x 90 mm | Each | 106.00 |
| 8 | 140 mm x 63 mm | Each | 122.00 |
| 9 | 140 mm x 90 mm | Each | 124.00 |
| 10 | 140 mm x 110 mm | Each | 127.00 |
| 11 | 160 mm x 110 mm | Each | 195.00 |
| 12 | 160 mm x 140 mm | Each | 216.00 |

| Sl.No. | Description | Unit | Rate for 2018 -19 in Rupees |
|--------|--------------------------------|------|-----------------------------|
| | PVC REDUCER MULTI STAGE | | |
| 1 | 90 mm x 63 mm | Each | 88.00 |
| 2 | 110 mm x 63 mm | Each | 167.00 |
| 3 | 110 mm x 75 mm | Each | 167.00 |
| 4 | 110 mm x 90 mm | Each | 191.00 |
| 5 | 140 mm x 90 mm | Each | 195.00 |
| | PVC REDUCER FABRICATED | | |
| 1 | 75 mm x 63 mm | Each | 58.00 |
| 2 | 90 mm x 75 mm | Each | 82.00 |
| 3 | 110 mm x 90 mm | Each | 124.00 |
| 4 | 140 mm x 110 mm | Each | 195.00 |
| 5 | 160 mm x 140 mm | Each | 298.00 |
| | SADDLE PIECE | | |
| 1 | 63 mm x 20 mm | Each | 82.00 |
| 2 | 75 mm x 20 mm | Each | 101.00 |
| 3 | 90 mm x 20 mm | Each | 119.00 |
| 4 | 110 mm x 20 mm | Each | 129.00 |
| 5 | 140 mm x 20 mm | Each | 191.00 |
| 6 | 160 mm x 20 mm | Each | 252.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

1.5 PVC SPECIALS AS PER IS 10124/1982 Part-II cont..

| Sl. No. | Description | Rate for 2018 -19 in Rupees | | | | | | | | | | | |
|---------|--|-----------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| | | 20mm | 25mm | 32mm | 40mm | 50mm | 63mm | 75mm | 90mm | 110mm | 140mm | 160mm | 200mm |
| 1 | PVC Couplers fabricated 4 KSC | - | - | - | - | 14 | 21 | 26 | 39 | 67 | 127 | 160 | 267 |
| 2 | PVC Couplers fabricated 6 KSC | - | - | - | - | 21 | 26 | 29 | 53 | 82 | 167 | 226 | 423 |
| 3 | PVC Bends fabricated 4 KSC | - | - | - | - | 37 | 43 | 68 | 108 | 152 | 405 | 651 | 1242 |
| 4 | PVC Bends fabricated 6 KSC | - | - | - | - | 40 | 64 | 112 | 152 | 248 | 641 | 1048 | 2120 |
| 5 | PVC Equal Tee Fabricated 4 KSC | - | - | - | - | 40 | 48 | 51 | 124 | 186 | 284 | 343 | 426 |
| 6 | PVC Equal Tee Fabricated BIS 10124/1982 PartV 6 KSC | - | - | - | - | 43 | 92 | 124 | 193 | 318 | 417 | 441 | 539 |
| 7 | PVC Couplers (Mould) BIS 7834/1975 Part VI | 7 | 12 | 13 | 21 | 32 | 53 | 78 | 124 | 166 | 244 | 329 | 503 |
| 8 | PVC Elbow (Mould) BIS 7834/1975 Part VI | 8 | 12 | 15 | 28 | 53 | 59 | 85 | 124 | 189 | 375 | 458 | 550 |
| 9 | PVC Equal tee (Mould) BIS 7834/1975 | 9 | 20 | 23 | 30 | 60 | 105 | 122 | 195 | 303 | 739 | 827 | 1238 |
| 10 | PVC Male Threaded Adaptor | - | - | - | - | 28 | 40 | 41 | 69 | 124 | 185 | 210 | 303 |
| 11 | PVC End Cap | 3 | 5 | 8 | 13 | 16 | 27 | 47 | 69 | 92 | 189 | 267 | 405 |
| 12 | PVC Tail piece without flange (BIS marks) | - | - | - | - | 34 | 35 | 44 | 64 | 92 | 164 | 240 | 334 |
| 13 | PVC flanged Tail piece | - | - | - | - | - | 185 | 222 | 277 | 324 | 538 | 705 | 1055 |

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

2.0 HDPE PIPES - PE 100 AS PER IS 4984/2016

| Sl. No | Description | Unit | Rate for 2018-19 in Rupees | | | |
|--------|-------------|-------|----------------------------|------------|-------------|------------|
| | | | I Quarter | II Quarter | III Quarter | IV Quarter |
| | PN 6 | | | | | |
| 1 | 50 mm | Metre | 70.00 | 71.50 | | |
| 2 | 63 mm | Metre | 109.00 | 111.50 | | |
| 3 | 75 mm | Metre | 155.00 | 158.50 | | |
| 4 | 90 mm | Metre | 214.00 | 219.50 | | |
| 5 | 110 mm | Metre | 317.00 | 324.50 | | |
| 6 | 125 mm | Metre | 411.00 | 421.00 | | |
| 7 | 140 mm | Metre | 515.00 | 527.50 | | |
| 8 | 160 mm | Metre | 671.00 | 687.50 | | |
| 9 | 180 mm | Metre | 845.00 | 865.50 | | |
| 10 | 200 mm | Metre | 1044.00 | 1069.50 | | |
| 11 | 225 mm | Metre | 1325.00 | 1357.50 | | |
| 12 | 250 mm | Metre | 1625.00 | 1665.00 | | |
| 13 | 280 mm | Metre | 2038.00 | 2088.00 | | |
| 14 | 315 mm | Metre | 2581.00 | 2644.00 | | |
| 15 | 355 mm | Metre | 3269.00 | 3349.00 | | |
| 16 | 400 mm | Metre | 4228.00 | 4331.50 | | |
| 17 | 450 mm | Metre | 5497.00 | 5628.00 | | |
| 18 | 500 mm | Metre | 6796.00 | 6958.00 | | |
| 19 | 560 mm | Metre | 8579.00 | 8782.00 | | |
| 20 | 630 mm | Metre | 10862.00 | 11118.50 | | |
| | PN 8 | | | | | |
| 1 | 50 mm | Metre | 87.00 | 89.00 | | |
| 2 | 63 mm | Metre | 136.00 | 139.50 | | |
| 3 | 75 mm | Metre | 192.00 | 196.50 | | |
| 4 | 90 mm | Metre | 275.00 | 282.00 | | |
| 5 | 110 mm | Metre | 412.00 | 422.00 | | |
| 6 | 125 mm | Metre | 528.00 | 541.00 | | |
| 7 | 140 mm | Metre | 660.00 | 676.00 | | |
| 8 | 160 mm | Metre | 864.00 | 885.00 | | |
| 9 | 180 mm | Metre | 1089.00 | 1115.50 | | |
| 10 | 200 mm | Metre | 1342.00 | 1375.00 | | |
| 11 | 225 mm | Metre | 1702.00 | 1743.50 | | |
| 12 | 250 mm | Metre | 2094.00 | 2145.50 | | |
| 13 | 280 mm | Metre | 2627.00 | 2691.50 | | |
| 14 | 315 mm | Metre | 3324.00 | 3405.50 | | |
| 15 | 355 mm | Metre | 4206.00 | 4309.00 | | |
| 16 | 400 mm | Metre | 5450.00 | 5583.50 | | |
| 17 | 450 mm | Metre | 7038.00 | 7207.00 | | |

| Sl. No | Description | Unit | Rate for 2018-19 in Rupees | | | |
|--------|----------------|-------|----------------------------|------------|-------------|------------|
| | | | I Quarter | II Quarter | III Quarter | IV Quarter |
| 18 | 500 mm | Metre | 8699.00 | 8907.50 | | |
| 19 | 560 mm | Metre | 11075.00 | 11337.00 | | |
| 20 | 630 mm | Metre | 13971.00 | 14302.00 | | |
| | PN 10 | | | | | |
| 1 | 50 mm | Metre | 106.00 | 108.50 | | |
| 2 | 63 mm | Metre | 164.00 | 168.00 | | |
| 3 | 75 mm | Metre | 236.00 | 241.50 | | |
| 4 | 90 mm | Metre | 334.00 | 342.00 | | |
| 5 | 110 mm | Metre | 495.00 | 507.00 | | |
| 6 | 125 mm | Metre | 638.00 | 653.50 | | |
| 7 | 140 mm | Metre | 796.00 | 815.50 | | |
| 8 | 160 mm | Metre | 1042.00 | 1067.50 | | |
| 9 | 180 mm | Metre | 1323.00 | 1355.50 | | |
| 10 | 200 mm | Metre | 1516.00 | 1556.00 | | |
| 11 | 225 mm | Metre | 2055.00 | 2105.00 | | |
| 12 | 250 mm | Metre | 2533.00 | 2595.00 | | |
| 13 | 280 mm | Metre | 3173.00 | 3250.00 | | |
| 14 | 315 mm | Metre | 4018.00 | 4116.00 | | |
| 15 | 355 mm | Metre | 5109.00 | 5234.00 | | |
| 16 | 400 mm | Metre | 6616.00 | 6778.00 | | |
| 17 | 450 mm | Metre | 8349.00 | 8553.00 | | |
| 18 | 500 mm | Metre | 10314.00 | 10566.50 | | |
| 19 | 560 mm | Metre | 13391.00 | 13707.50 | | |
| 20 | 630 mm | Metre | 16962.00 | 17363.00 | | |
| | PN 12.5 | | | | | |
| 1 | 50 mm | Metre | 125.00 | 128.00 | | |
| 2 | 63 mm | Metre | 202.00 | 207.00 | | |
| 3 | 75 mm | Metre | 284.00 | 291.00 | | |
| 4 | 90 mm | Metre | 415.00 | 425.00 | | |
| 5 | 110 mm | Metre | 614.00 | 628.50 | | |
| 6 | 125 mm | Metre | 788.00 | 807.00 | | |
| 7 | 140 mm | Metre | 987.00 | 1010.50 | | |
| 8 | 160 mm | Metre | 1290.00 | 1320.50 | | |
| 9 | 180 mm | Metre | 1630.00 | 1669.00 | | |
| 10 | 200 mm | Metre | 2009.00 | 2057.00 | | |
| 11 | 225 mm | Metre | 2548.00 | 2608.50 | | |
| 12 | 250 mm | Metre | 3131.00 | 3205.50 | | |
| 13 | 280 mm | Metre | 3931.00 | 4024.50 | | |
| 14 | 315 mm | Metre | 4977.00 | 5095.50 | | |
| 15 | 355 mm | Metre | 6314.00 | 6464.50 | | |

| Sl. No | Description | Unit | Rate for 2018-19 in Rupees | | | |
|--------|--------------|-------|----------------------------|------------|-------------|------------|
| | | | I Quarter | II Quarter | III Quarter | IV Quarter |
| 16 | 400 mm | Metre | 8187.00 | 8382.00 | | |
| 17 | 450 mm | Metre | 10429.00 | 10675.50 | | |
| 18 | 500 mm | Metre | 12857.00 | 13161.00 | | |
| 19 | 560 mm | Metre | 16112.00 | 16493.00 | | |
| 20 | 630 mm | Metre | 20390.00 | 20872.00 | | |
| | PN 16 | | | | | |
| 1 | 50 mm | Metre | 154.00 | 157.50 | | |
| 2 | 63 mm | Metre | 250.00 | 256.00 | | |
| 3 | 75 mm | Metre | 345.00 | 353.50 | | |
| 4 | 90 mm | Metre | 496.00 | 508.00 | | |
| 5 | 110 mm | Metre | 741.00 | 758.50 | | |
| 6 | 125 mm | Metre | 956.00 | 979.00 | | |
| 7 | 140 mm | Metre | 1196.00 | 1224.50 | | |
| 8 | 160 mm | Metre | 1566.00 | 1603.50 | | |
| 9 | 180 mm | Metre | 1975.00 | 2022.00 | | |
| 10 | 200 mm | Metre | 2437.00 | 2495.00 | | |
| 11 | 225 mm | Metre | 3087.00 | 3160.50 | | |
| 12 | 250 mm | Metre | 3806.00 | 3896.50 | | |
| 13 | 280 mm | Metre | 4770.00 | 4883.50 | | |
| 14 | 315 mm | Metre | 6033.00 | 6176.50 | | |
| 15 | 355 mm | Metre | 7652.00 | 7834.00 | | |
| 16 | 400 mm | Metre | 9922.00 | 10158.00 | | |
| 17 | 450 mm | Metre | 12659.00 | 12958.00 | | |
| 18 | 500 mm | Metre | 15984.00 | 16353.00 | | |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO

**2.1 SPECIALS FOR HDPE PIPES AS PER IS 8360/1977/Part I (Reaffirmed 1992,
Part II and III (Reaffirmed 2002))**

| Sl. No | Description | Unit | Rate for 2018-19 in Rupees | |
|--------------|-------------|------|-------------------------------|-----------|
| | | | 90 Degree Bend | Equal Tee |
| PN 6 | | | | |
| 1 | 50 mm | Each | 52.00 | 57.00 |
| 2 | 63 mm | Each | 76.00 | 78.00 |
| 3 | 75 mm | Each | 105.00 | 135.00 |
| 4 | 90 mm | Each | 184.00 | 257.00 |
| 5 | 110 mm | Each | 332.00 | 426.00 |
| 6 | 125 mm | Each | 437.00 | 450.00 |
| 7 | 140 mm | Each | 602.00 | 618.00 |
| 8 | 160 mm | Each | 872.00 | 910.00 |
| 9 | 180 mm | Each | 1216.00 | 1294.00 |
| 10 | 200 mm | Each | 1648.00 | 1724.00 |
| 11 | 225 mm | Each | 2268.00 | 2433.00 |
| 12 | 250 mm | Each | 3090.00 | 3306.00 |
| 13 | 280 mm | Each | 4330.00 | 4596.00 |
| 14 | 315 mm | Each | 7295.00 | 6339.00 |
| 15 | 355 mm | Each | 10650.00 | 8866.00 |
| 16 | 400 mm | Each | 15371.00 | 12966.00 |
| 17 | 450 mm | Each | 20392.00 | 18408.00 |
| 18 | 500 mm | Each | 30111.00 | 31798.00 |
| 19 | 560 mm | Each | 39825.00 | 39748.00 |
| 20 | 630 mm | Each | 50097.00 | 55040.00 |
| PN 8 | | | | |
| 1 | 125 mm | Each | 417.00 | 478.00 |
| 2 | 140 mm | Each | 556.00 | 653.00 |
| 3 | 160 mm | Each | 792.00 | 946.00 |
| 4 | 180 mm | Each | 1106.00 | 1319.00 |
| 5 | 200 mm | Each | 1433.00 | 1762.00 |
| 6 | 225 mm | Each | 2044.00 | 2457.00 |
| 7 | 250 mm | Each | 2750.00 | 3315.00 |
| 8 | 280 mm | Each | 3805.00 | 4581.00 |
| 9 | 315 mm | Each | 7907.00 | 6276.00 |
| 10 | 355 mm | Each | 11276.00 | 8730.00 |
| 11 | 400 mm | Each | 16458.00 | 12660.00 |
| 12 | 450 mm | Each | 23445.00 | 17880.00 |
| 13 | 500 mm | Each | 32157.00 | 32340.00 |
| 14 | 560 mm | Each | 45190.00 | 40490.00 |
| 15 | 630 mm | Each | 64344.00 | 51556.00 |
| PN 10 | | | | |
| 1 | 50 mm | Each | 71.00 | 82.00 |
| 2 | 63 mm | Each | 117.00 | 121.00 |
| 3 | 75 mm | Each | 151.00 | 222.00 |
| 4 | 90 mm | Each | 272.00 | 359.00 |
| 5 | 110 mm | Each | 443.00 | 600.00 |
| 6 | 125 mm | Each | 608.00 | 837.00 |
| 7 | 140 mm | Each | 891.00 | 1154.00 |
| 8 | 160 mm | Each | 1259.00 | 1770.00 |
| 9 | 180 mm | Each | 1923.00 | 2448.00 |
| 10 | 200 mm | Each | 2464.00 | 3269.00 |

| Sl. No | Description | Unit | Rate for 2018-19 in Rupees | |
|--------|----------------|------|-------------------------------|-----------|
| | | | 90 Degree Bend | Equal Tee |
| 11 | 225 mm | Each | 3377.00 | 4510.00 |
| 12 | 250 mm | Each | 4510.00 | 6090.00 |
| 13 | 280 mm | Each | 6253.00 | 8391.00 |
| 14 | 315 mm | Each | 10966.00 | 11450.00 |
| 15 | 355 mm | Each | 15833.00 | 15884.00 |
| 16 | 400 mm | Each | 23228.00 | 22926.00 |
| 17 | 450 mm | Each | 31196.00 | 30434.00 |
| 18 | 500 mm | Each | 41377.00 | 52288.00 |
| 19 | 560 mm | Each | 63410.00 | 84048.00 |
| 20 | 630 mm | Each | 94046.00 | 119783.00 |
| | PN 12.5 | | | |
| 1 | 125 mm | Each | 613.00 | 817.00 |
| 2 | 140 mm | Each | 856.00 | 1152.00 |
| 3 | 160 mm | Each | 1225.00 | 1715.00 |
| 4 | 180 mm | Each | 1701.00 | 2458.00 |
| 5 | 200 mm | Each | 2274.00 | 3367.00 |
| 6 | 225 mm | Each | 3237.00 | 4431.00 |
| 7 | 250 mm | Each | 4134.00 | 6048.00 |
| 8 | 280 mm | Each | 5917.00 | 8524.00 |
| 9 | 315 mm | Each | 12554.00 | 11191.00 |
| 10 | 355 mm | Each | 16610.00 | 16011.00 |
| 11 | 400 mm | Each | 23452.00 | 21410.00 |
| 12 | 450 mm | Each | 34180.00 | 40522.00 |
| 13 | 500 mm | Each | 46846.00 | 58107.00 |
| 14 | 560 mm | Each | 65741.00 | 81576.00 |
| 15 | 630 mm | Each | 93627.00 | 116133.00 |
| | PN 16 | | | |
| 1 | 50 mm | Each | 151.00 | 148.00 |
| 2 | 63 mm | Each | 236.00 | 216.00 |
| 3 | 75 mm | Each | 275.00 | 369.00 |
| 4 | 90 mm | Each | 423.00 | 564.00 |
| 5 | 110 mm | Each | 771.00 | 976.00 |
| 6 | 125 mm | Each | 834.00 | 1228.00 |
| 7 | 140 mm | Each | 1165.00 | 1728.00 |
| 8 | 160 mm | Each | 2022.00 | 2628.00 |
| 9 | 180 mm | Each | 2731.00 | 3760.00 |
| 10 | 200 mm | Each | 3660.00 | 5161.00 |
| 11 | 225 mm | Each | 5210.00 | 6788.00 |
| 12 | 250 mm | Each | 6661.00 | 9281.00 |
| 13 | 280 mm | Each | 9524.00 | 13066.00 |
| 14 | 315 mm | Each | 17989.00 | 17878.00 |
| 15 | 355 mm | Each | 24217.00 | 25591.00 |
| 16 | 400 mm | Each | 35881.00 | 44631.00 |
| 17 | 450 mm | Each | 50876.00 | 60768.00 |
| 18 | 500 mm | Each | 73942.00 | 91523.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

3.0 A.C.PRESSURE PIPES AS PER IS 1592 / 2003

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees |
|-----------|-----------------|-------|-------------------------------|
| I | Class 15 | | |
| 1 | 80mm | Metre | 293.00 |
| 2 | 100mm | Metre | 385.00 |
| 3 | 125mm | Metre | 503.00 |
| 4 | 150mm | Metre | 707.00 |
| 5 | 200mm | Metre | 1171.00 |
| 6 | 250mm | Metre | 1485.00 |
| 7 | 300mm | Metre | 2077.00 |
| 8 | 350mm | Metre | 2532.00 |
| 9 | 400mm | Metre | 3590.00 |
| 10 | 450mm | Metre | 4263.00 |
| II | Class 20 | | |
| 1 | 80mm | Metre | 320.00 |
| 2 | 100mm | Metre | 490.00 |
| 3 | 125mm | Metre | 627.00 |
| 4 | 150mm | Metre | 881.00 |
| 5 | 200mm | Metre | 1499.00 |
| 6 | 250mm | Metre | 1926.00 |
| 7 | 300mm | Metre | 2706.00 |
| 8 | 350mm | Metre | 3291.00 |
| 9 | 400mm | Metre | 4697.00 |
| 10 | 450mm | Metre | 5658.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO.

3.1 A.C. COUPLER AS PER IS 1592 /2003

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees |
|--------------|--------------------|-------------|---------------------------------------|
| I | Class 15 | | |
| 1 | 80mm | Each | 254.00 |
| 2 | 100mm | Each | 328.00 |
| 3 | 125mm | Each | 413.00 |
| 4 | 150mm | Each | 496.00 |
| 5 | 200mm | Each | 849.00 |
| 6 | 250mm | Each | 990.00 |
| 7 | 300mm | Each | 1257.00 |
| 8 | 350mm | Each | 1641.00 |
| 9 | 400mm | Each | 2318.00 |
| 10 | 450mm | Each | 2852.00 |
| II | Class 20 | | |
| 1 | 80mm | Each | 270.00 |
| 2 | 100mm | Each | 348.00 |
| 3 | 125mm | Each | 444.00 |
| 4 | 150mm | Each | 586.00 |
| 5 | 200mm | Each | 911.00 |
| 6 | 250mm | Each | 1225.00 |
| 7 | 300mm | Each | 1587.00 |
| 8 | 350mm | Each | 2057.00 |
| 9 | 400mm | Each | 3066.00 |
| 10 | 450mm | Each | 3665.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO.

3.2 C.I.D.JOINTS AS PER IS 8794 / 1988

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees |
|-----------|-----------------|------|-------------------------------|
| I | Class 15 | | |
| 1 | 80mm | Each | 428.00 |
| 2 | 100mm | Each | 538.00 |
| 3 | 125mm | Each | 678.00 |
| 4 | 150mm | Each | 868.00 |
| 5 | 200mm | Each | 1263.00 |
| 6 | 250mm | Each | 1644.00 |
| 7 | 300mm | Each | 1983.00 |
| 8 | 350mm | Each | 3336.00 |
| 9 | 400mm | Each | 4161.00 |
| 10 | 450mm | Each | 4997.00 |
| II | Class 20 | | |
| 1 | 80mm | Each | 440.00 |
| 2 | 100mm | Each | 545.00 |
| 3 | 125mm | Each | 732.00 |
| 4 | 150mm | Each | 881.00 |
| 5 | 200mm | Each | 1343.00 |
| 6 | 250mm | Each | 1770.00 |
| 7 | 300mm | Each | 1839.00 |
| 8 | 350mm | Each | 3550.00 |
| 9 | 400mm | Each | 4261.00 |
| 10 | 450mm | Each | 5033.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO.

4.0 C.I. SPUN PIPES AS PER IS 1536/2001 Amendment No.3. July 2008

| SI No. | Description | Unit | Rate for 2018- 19 in Rupees |
|-----------|-----------------|-------|--------------------------------|
| I | LA Class | | |
| 1 | 80mm | Metre | 952.00 |
| 2 | 100mm | Metre | 1179.00 |
| 3 | 125mm | Metre | 1536.00 |
| 4 | 150mm | Metre | 1824.00 |
| 5 | 200mm | Metre | 2637.00 |
| 6 | 250mm | Metre | 3553.00 |
| 7 | 300mm | Metre | 4582.00 |
| 8 | 350mm | Metre | 5928.00 |
| 9 | 400mm | Metre | 7214.00 |
| 10 | 450mm | Metre | 8699.00 |
| 11 | 500mm | Metre | 10183.00 |
| 12 | 600mm | Metre | 13570.00 |
| 13 | 700mm | Metre | 17416.00 |
| 14 | 750mm | Metre | 19572.00 |
| II | A Class | | |
| 1 | 80mm | Metre | 1034.00 |
| 2 | 100mm | Metre | 1298.00 |
| 3 | 125mm | Metre | 1678.00 |
| 4 | 150mm | Metre | 1997.00 |
| 5 | 200mm | Metre | 2862.00 |
| 6 | 250mm | Metre | 3869.00 |
| 7 | 300mm | Metre | 5009.00 |
| 8 | 350mm | Metre | 6430.00 |
| 9 | 400mm | Metre | 7883.00 |
| 10 | 450mm | Metre | 9556.00 |
| 11 | 500mm | Metre | 11093.00 |
| 12 | 600mm | Metre | 14814.00 |
| 13 | 700mm | Metre | 18968.00 |
| 14 | 750mm | Metre | 21306.00 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|----------------|--------------------|-------------|-----------------------------------|
| III | B Class | | |
| 1 | 80mm | Metre | 1110.00 |
| 2 | 100mm | Metre | 1385.00 |
| 3 | 125mm | Metre | 1807.00 |
| 4 | 150mm | Metre | 2150.00 |
| 5 | 200mm | Metre | 3096.00 |
| 6 | 250mm | Metre | 4185.00 |
| 7 | 300mm | Metre | 5428.00 |
| 8 | 350mm | Metre | 6974.00 |
| 9 | 400mm | Metre | 8510.00 |
| 10 | 450mm | Metre | 10309.00 |
| 11 | 500mm | Metre | 12002.00 |
| 12 | 600mm | Metre | 16048.00 |
| 13 | 700mm | Metre | 20438.00 |
| 14 | 750mm | Metre | 23050.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO

4.1 C.I D/F PIPES AS PER IS 7181/1986 & IS 1537/1996

| Sl. No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-----------|---------------------|------|------------------------------|
| I | STANDARD | | |
| 1 | 80mm to 200mm | Kg | 66.00 |
| 2 | 250mm to 400mm | Kg | 68.00 |
| 3 | 450mm to 750mm | Kg | 72.00 |
| II | NON-STANDARD | | |
| 1 | 80mm to 200mm | Kg | 70.00 |
| 2 | 250mm to 400mm | Kg | 72.00 |
| 3 | 450mm to 750mm | Kg | 76.00 |

4.2 CI D/F SPECIALS & S/S SPECIALS AS PER IS 1538/1993

| Sl. No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|------------|---------------------|------|------------------------------|
| I | STANDARD | | |
| 1 | 80mm to 200mm | Kg | 62.00 |
| 2 | 250mm to 400mm | Kg | 72.00 |
| 3 | 450mm to 750mm | Kg | 78.00 |
| II. | NON-STANDARD | | |
| 1 | 80mm to 200mm | Kg | 66.00 |
| 2 | 250mm to 400mm | Kg | 78.00 |
| 3 | 450mm to 750mm | Kg | 81.00 |

- Note: 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

5.0 G I PIPES (MEDIUM) AS PER IS 1239/PART I/2004

| Sl. No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|---------|-------------|-------|---------------------------------|
| 1 | 15mm | Metre | 95.00 |
| 2 | 20mm | Metre | 126.00 |
| 3 | 25mm | Metre | 183.00 |
| 4 | 32mm | Metre | 230.00 |
| 5 | 40mm | Metre | 267.00 |
| 6 | 50mm | Metre | 364.00 |
| 7 | 65mm | Metre | 465.00 |
| 8 | 80mm | Metre | 575.00 |
| 9 | 100mm | Metre | 820.00 |
| 10 | 125mm | Metre | 1178.00 |
| 11 | 150mm | Metre | 1318.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO

5.1a G.I. SPECIALS AS PER IS 1239/PART II

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|---------------|----------------------------|-------------|--|
| | GI REDUCER (HEAVY) | | |
| 1 | 150 mm x 125 mm | Each | 770.00 |
| 2 | 150 mm x 100 mm | Each | 770.00 |
| 3 | 150 mm x 80 mm | Each | 770.00 |
| 4 | 125 mm x 100 mm | Each | 693.00 |
| 5 | 125 mm x 80 mm | Each | 693.00 |
| 6 | 125 mm x 65 mm | Each | 693.00 |
| 7 | 125 mm x 50 mm | Each | 693.00 |
| 8 | 100 mm x 80 mm | Each | 478.00 |
| 9 | 100 mm x 65 mm | Each | 478.00 |
| 10 | 100 mm x 50 mm | Each | 478.00 |
| 11 | 80 mm x 65 mm | Each | 298.00 |
| 12 | 80 mm x 50 mm | Each | 298.00 |
| 13 | 80 mm x 40 mm | Each | 298.00 |
| 14 | 80 mm x 32 mm | Each | 298.00 |
| 15 | 65 mm x 50 mm | Each | 205.00 |
| 16 | 65 mm x 40 mm | Each | 205.00 |
| 17 | 65 mm x 32 mm | Each | 205.00 |
| 18 | 65 mm x 20 mm | Each | 205.00 |
| 19 | 50 mm x 40 mm | Each | 112.00 |
| 20 | 50 mm x 32 mm | Each | 112.00 |
| 21 | 50 mm x 20 mm | Each | 112.00 |
| 22 | 40 mm x 32 mm | Each | 78.00 |
| 23 | 40 mm x 20 mm | Each | 78.00 |
| | GI REDUCER (MEDIUM) | | |
| 1 | 150 mm x 125 mm | Each | 626.00 |
| 2 | 150 mm x 100 mm | Each | 626.00 |
| 3 | 150 mm x 80 mm | Each | 626.00 |
| 4 | 125 mm x 100 mm | Each | 529.00 |
| 5 | 125 mm x 80 mm | Each | 529.00 |
| 6 | 125 mm x 65 mm | Each | 529.00 |
| 7 | 125 mm x 50 mm | Each | 529.00 |
| 8 | 100 mm x 80 mm | Each | 345.00 |
| 9 | 100 mm x 65mm | Each | 345.00 |
| 10 | 100 mm x 50 mm | Each | 345.00 |
| 11 | 80 mm x 65 mm | Each | 192.00 |
| 12 | 80 mm x 50 mm | Each | 150.00 |

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------|--------------------------------|------|--------------------------------|
| 13 | 80 mm x 40 mm | Each | 150.00 |
| 14 | 80 mm x 32 mm | Each | 150.00 |
| 15 | 65 mm x 50 mm | Each | 108.00 |
| 16 | 65 mm x 40 mm | Each | 108.00 |
| 17 | 65 mm x 32 mm | Each | 108.00 |
| 18 | 65 mm x 20 mm | Each | 108.00 |
| 19 | 50 mm x 40 mm | Each | 72.00 |
| 20 | 50 mm x 32 mm | Each | 72.00 |
| 21 | 50 mm x 20 mm | Each | 72.00 |
| 22 | 40 mm x 32 mm | Each | 47.00 |
| 23 | 40 mm x 20 mm | Each | 47.00 |
| | G I UNEQUAL TEE (HEAVY) | | |
| 1 | 150 mm x 125 mm | Each | 1643.00 |
| 2 | 150 mm x 100 mm | Each | 1643.00 |
| 3 | 150 mm x 80 mm | Each | 1643.00 |
| 4 | 125 mm x 100 mm | Each | 1336.00 |
| 5 | 125 mm x 80 mm | Each | 1336.00 |
| 6 | 125 mm x 65 mm | Each | 1336.00 |
| 7 | 125 mm x 50 mm | Each | 1336.00 |
| 8 | 100 mm x 80 mm | Each | 927.00 |
| 9 | 100 mm x 65mm | Each | 927.00 |
| 10 | 100 mm x 50 mm | Each | 927.00 |
| 11 | 80 mm x 65 mm | Each | 541.00 |
| 12 | 80 mm x 50 mm | Each | 541.00 |
| 13 | 80 mm x 40 mm | Each | 541.00 |
| 14 | 80 mm x 32 mm | Each | 541.00 |
| 15 | 65 mm x 50 mm | Each | 398.00 |
| 16 | 65 mm x 40 mm | Each | 398.00 |
| 17 | 65 mm x 32 mm | Each | 398.00 |
| 18 | 65 mm x 20 mm | Each | 398.00 |
| 19 | 50 mm x 40 mm | Each | 236.00 |
| 20 | 50 mm x 32 mm | Each | 236.00 |
| 21 | 50 mm x 20 mm | Each | 236.00 |
| 22 | 40 mm x 32 mm | Each | 149.00 |
| 23 | 40 mm x 20 mm | Each | 149.00 |
| 24 | 32 mm x 20 mm | Each | 107.00 |

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------|---|------|--------------------------------|
| | G.I UNEQUAL TEE(MEDIUM) | | |
| 1 | 150 mm x 125 mm | Each | 986.00 |
| 2 | 150 mm x 100 mm | Each | 986.00 |
| 3 | 150 mm x 80 mm | Each | 986.00 |
| 4 | 125 mm x 100 mm | Each | 800.00 |
| 5 | 125 mm x 80 mm | Each | 800.00 |
| 6 | 125 mm x 65 mm | Each | 800.00 |
| 7 | 125 mm x 50 mm | Each | 800.00 |
| 8 | 100 mm x 80 mm | Each | 526.00 |
| 9 | 100 mm x 65mm | Each | 526.00 |
| 10 | 100 mm x 50 mm | Each | 526.00 |
| 11 | 80 mm x 65 mm | Each | 259.00 |
| 12 | 80 mm x 50 mm | Each | 259.00 |
| 13 | 80 mm x 40 mm | Each | 259.00 |
| 14 | 80 mm x 32 mm | Each | 259.00 |
| 15 | 65 mm x 50 mm | Each | 183.00 |
| 16 | 65 mm x 40 mm | Each | 183.00 |
| 17 | 65 mm x 32 mm | Each | 183.00 |
| 18 | 65 mm x 20 mm | Each | 183.00 |
| 19 | 50 mm x 40 mm | Each | 108.00 |
| 20 | 50 mm x 32 mm | Each | 108.00 |
| 21 | 50 mm x 20 mm | Each | 108.00 |
| 22 | 40 mm x 32 mm | Each | 78.00 |
| 23 | 40 mm x 20 mm | Each | 78.00 |
| 24 | 32 mm x 20 mm | Each | 78.00 |
| | MS BOLTS AND NUTS | | |
| 1 | 16 mm dia x 65 to 90 mm length fully threaded bolts and nuts with 2 Nos. | Kg. | 93.00 |
| 2 | 20mm dia and above x 90mm to 120mm length fully threaded bolts and with nuts 2 Nos. | Kg. | 98.00 |
| | RUBBER INSERTION SHEET | | |
| 1 | 3 Ply R.I. Sheet | Kg. | 82.00 |
| | AC COWL | | |
| 1 | 80 mm dia | Each | 29.00 |
| 2 | 100 mm dia | Each | 50.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

5.1b G.I. SPECIALS AS PER IS 1239/PART II

CONTINUED.....

| Sl. No. | Description | Rate for 2018-19 in Rupees | | | | | | | | | | |
|---------|--------------------------------|----------------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| | | 15mm | 20mm | 25mm | 32mm | 40mm | 50mm | 65mm | 80mm | 100mm | 125mm | 150mm |
| 1. | G.I. Equal Elbow plain | 22.00 | 30.00 | 47.00 | 78.00 | 98.00 | 148.00 | 265.00 | 390.00 | 697.00 | 719.00 | 1724.00 |
| 2. | G.I. Equal Tee plain | 35.00 | 43.00 | 62.00 | 90.00 | 132.00 | 218.00 | 344.00 | 488.00 | 873.00 | 1258.00 | 1761.00 |
| 3. | G.I. Coupling | 21.00 | 21.00 | 28.00 | 51.00 | 78.00 | 114.00 | 197.00 | 242.00 | 484.00 | 729.00 | 1470.00 |
| 4. | G.I. Flange set | — | — | — | — | — | 70.00 | 85.00 | 98.00 | 162.00 | 236.00 | 837.00 |
| 5. | G.I. Cross | 51.00 | 65.00 | 106.00 | 171.00 | 219.00 | 332.00 | 513.00 | 811.00 | 1067.00 | 1345.00 | — |
| 6. | G.I. Hex Nipple | 21.00 | 37.00 | 37.00 | 58.00 | 72.00 | 100.00 | 171.00 | 240.00 | 356.00 | 380.00 | 819.00 |
| 7. | G.I.Three Way Elbow | 45.00 | 69.00 | 101.00 | 160.00 | 208.00 | 334.00 | — | — | — | — | — |
| 8. | G.I.Plug Dia Head Taper Thread | 9.00 | 20.00 | 20.00 | 34.00 | 34.00 | 62.00 | 84.00 | 122.00 | 171.00 | 226.00 | — |
| 9. | G.I.Bend | 21.00 | 37.00 | 58.00 | 69.00 | 90.00 | 135.00 | 229.00 | 347.00 | 608.00 | 879.00 | 2079.00 |
| 10. | G.I.Union | 61.00 | 65.00 | 109.00 | 154.00 | 196.00 | 278.00 | 521.00 | 727.00 | 1079.00 | 1443.00 | 2145.00 |
| 11. | G.M. Ferrule | 337.00 | 507.00 | 747.00 | — | — | — | — | — | — | — | — |
| 12. | G.I.stop cock | 161.00 | 215.00 | 390.00 | 582.00 | 865.00 | 1251.00 | 1596.00 | 2107.00 | 3229.00 | 4620.00 | — |
| 13. | Rubber sheet for Flange set | — | — | — | — | — | 14.00 | 14.00 | 20.00 | 39.00 | 41.00 | 93.00 |
| 14. | G.I. Reduced Elbow Plain | 28.00 | 32.00 | 54.00 | 85.00 | 111.00 | 163.00 | 285.00 | 434.00 | 748.00 | 1078.00 | 1455.00 |
| 15. | G.I.Reduced Tee Plain | 39.00 | 53.00 | 79.00 | 114.00 | 145.00 | 219.00 | 337.00 | 521.00 | 982.00 | 1386.00 | 1655.00 |
| 16. | G.I. Reduced Socket Plain | 22.00 | 45.00 | 49.00 | 69.00 | 105.00 | 150.00 | 192.00 | 296.00 | 417.00 | 539.00 | 779.00 |
| 17. | G.I. Check Nut | 14.00 | 20.00 | 27.00 | 40.00 | 53.00 | 71.00 | 118.00 | 156.00 | 208.00 | 263.00 | 759.00 |
| 18. | G.I.Reduced Nipple | 21.00 | 24.00 | 44.00 | 84.00 | 100.00 | 152.00 | 284.00 | 329.00 | 462.00 | 655.00 | 819.00 |
| 19. | G.I. Dummy (Heavy) | — | — | — | — | 22.00 | 35.00 | 44.00 | 58.00 | 101.00 | 146.00 | — |
| 20. | G.I.Dummy (Medium) | — | — | — | — | 20.00 | 29.00 | 40.00 | 49.00 | 93.00 | 144.00 | — |
| 21. | M.S.Saddle Piece | — | — | — | — | — | 85.00 | 90.00 | 108.00 | 144.00 | 185.00 | 570.00 |
| 22. | Waste Not Tap | — | 122.00 | — | — | — | — | — | — | — | — | — |
| 23. | C.I.Footvalve with stainer | — | — | — | — | — | 380.00 | — | 565.00 | — | — | — |
| 24. | M.S.Clampset | — | — | — | — | 169.00 | 196.00 | 336.00 | 471.00 | 560.00 | — | 821.00 |

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

5.2 G.M GATE VALVES AS PER IS BS 5154 and related IS Specs

| SI.No. | Description | Rate for 2018-19 in Rupees | | | | | | | | | |
|--------|------------------------|----------------------------|--------|--------|--------|---------|---------|---------|---------|---------|----------|
| | | 15mm | 20mm | 25mm | 32mm | 40mm | 50mm | 65mm | 80mm | 100mm | 125mm |
| 1 | G.M. Gate valves | — | 470.00 | 631.00 | 838.00 | 1132.00 | 1818.00 | 2838.00 | 4464.00 | 7649.00 | 10883.00 |
| 2 | G.M. Non Return valves | — | — | — | — | — | 1818.00 | 1862.00 | 2920.00 | — | — |

43

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

**6.0 DUCTILE IRON SOCKET/SPIGOT PIPES FOR CLASS K7
AS PER IS 8329/2000**

| Sl. No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|----------------|--------------------|-------------|---|
| 1 | 100 mm | Metre | 1019.00 |
| 2 | 150 mm | Metre | 1475.00 |
| 3 | 200 mm | Metre | 1904.00 |
| 4 | 250 mm | Metre | 2505.00 |
| 5 | 300 mm | Metre | 3160.00 |
| 6 | 350mm | Metre | 3884.00 |
| 7 | 400 mm | Metre | 4664.00 |
| 8 | 450 mm | Metre | 5513.00 |
| 9 | 500 mm | Metre | 6494.00 |
| 10 | 600 mm | Metre | 8563.00 |
| 11 | 700 mm | Metre | 11179.00 |
| 12 | 750 mm | Metre | 12833.00 |
| 13 | 800 mm | Metre | 14358.00 |
| 14 | 900 mm | Metre | 17433.00 |
| 15 | 1000 mm | Metre | 21795.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO.

**6.1 DUCTILE IRON SOCKET/SPIGOT PIPES FOR CLASS K9
AS PER IS 8329/2000**

| Sl. No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|----------------|--------------------|-------------|---|
| 1 | 100 mm | Metre | 1155.00 |
| 2 | 150 mm | Metre | 1697.00 |
| 3 | 200 mm | Metre | 2290.00 |
| 4 | 250 mm | Metre | 3016.00 |
| 5 | 300 mm | Metre | 3808.00 |
| 6 | 350mm | Metre | 4647.00 |
| 7 | 400 mm | Metre | 5577.00 |
| 8 | 450 mm | Metre | 6705.00 |
| 9 | 500 mm | Metre | 7752.00 |
| 10 | 600 mm | Metre | 10266.00 |
| 11 | 700 mm | Metre | 12597.00 |
| 12 | 750 mm | Metre | 14125.00 |
| 13 | 800 mm | Metre | 15660.00 |
| 14 | 900 mm | Metre | 18930.00 |
| 15 | 1000 mm | Metre | 22688.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO.

**6.2 DUCTILE IRON CLASS PN10 FLANGED PIPES
AS PER IS 8329/2000**

| Sl. No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|----------------|----------------------------|-------------|---|
| I | 4 m length of pipes | | |
| 1 | 80 mm | Each | 5661.00 |
| 2 | 100 mm | Each | 6575.00 |
| 3 | 150 mm | Each | 9166.00 |
| 4 | 200 mm | Each | 12332.00 |
| 5 | 250 mm | Each | 16621.00 |
| 6 | 300 mm | Each | 21285.00 |
| 7 | 350mm | Each | 28968.00 |
| 8 | 400 mm | Each | 37006.00 |
| 9 | 450 mm | Each | 44715.00 |
| 10 | 500 mm | Each | 51395.00 |
| 11 | 600 mm | Each | 66655.00 |
| 12 | 700 mm | Each | 89851.00 |
| 13 | 750 mm | Each | 102859.00 |
| 14 | 800 mm | Each | 115868.00 |
| 15 | 900 mm | Each | 157666.00 |
| 16 | 1000mm | Each | 185154.00 |
| II | 5 m length of pipes | | |
| 1 | 80 mm | Each | 6565.00 |
| 2 | 100 mm | Each | 8603.00 |
| 3 | 150 mm | Each | 12529.00 |
| 4 | 200 mm | Each | 16557.00 |
| 5 | 250 mm | Each | 22490.00 |
| 6 | 300 mm | Each | 28734.00 |
| 7 | 350 mm | Each | 34685.00 |
| 8 | 400 mm | Each | 43663.00 |
| 9 | 450 mm | Each | 52626.00 |
| 10 | 500 mm | Each | 60642.00 |
| 11 | 600 mm | Each | 79504.00 |
| 12 | 700 mm | Each | 100542.00 |
| 13 | 750 mm | Each | 114674.00 |
| 14 | 800 mm | Each | 128452.00 |
| 15 | 900 mm | Each | 174672.00 |
| 16 | 1000 mm | Each | 201614.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO.

6.3 DUCTILE IRON SPECIALS AS PER IS 9523/2000

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------|---------------------|------|--------------------------------|
| | ALL SOCKET | | |
| 1 | 100mm - 200 mm dia | Kg | 119.00 |
| 2 | 250 mm - 300 mm dia | Kg | 119.00 |
| 3 | 350 mm - 450 mm dia | Kg | 119.00 |
| 4 | 500 mm - 600 mm dia | Kg | 119.00 |
| 5 | 700 mm - 750 mm | Kg | 173.00 |
| 6 | 800mm | Kg | 173.00 |
| 7 | 900 mm | Kg | 183.00 |
| 8 | 1000 mm | Kg | 198.00 |
| | ALL FLANGE | | |
| 1 | 100mm - 200 mm dia | Kg | 124.00 |
| 2 | 250 mm - 300 mm dia | Kg | 124.00 |
| 3 | 350 mm - 450 mm dia | Kg | 124.00 |
| 4 | 500 mm - 600 mm dia | Kg | 124.00 |
| 5 | 700 mm - 750 mm | Kg | 183.00 |
| 6 | 800 mm | Kg | 183.00 |
| 7 | 900 mm | Kg | 198.00 |
| 8 | 1000 mm | Kg | 198.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO.
 - 3) In respect of flanged and spigot, flanged and socketted type specials, the rate applicable for flanged type specials is allowed.

7.0 HOUSE SERVICE CONNECTION IN WSS.

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees. |
|-------|--|-------|-----------------------------|
| 1 | HSC Connection in HDPE Mains for Water Supply Scheme Electrofusion tapping saddle PE 80 blue, PN 12.5 with female threaded metal insert of SS 304 as per standards BS EN 12201 tested as per BS 6920 for drinking water in WRC-NSF Ltd, UK. (Non Wrap with top loading type). Sizes:63mm to 315mm dia distribution HDPE pipes. | | |
| | 20mm (1/2") | 1 No. | 489.00 |
| | 25mm (3/4") | 1 No. | 489.00 |
| | 32mm (1") | 1 No. | 489.00 |
| 2 | HSC Connection in DI Mains for Water Supply Scheme Providing suitable dia non corrosive engineering plastic moulded Clamp Saddle with SS 304 threaded metal inserted for tapping outlet suiting for 1/2", 3/4" & 1" clear bore and with wide plastic strap (Engineering Plastic) with SS 304 suitable bolts & nuts. Saddle to have sealing of Thermo plastic elastomeric (TPE) material around shall as detailed in a drawing furnished. | | |
| | 20mm (1/2") | 1 No. | 629.00 |
| | 25mm (3/4") | 1 No. | 723.00 |
| | 32mm (1") | 1 No. | 748.00 |
| 3 | Common Items for HSC Connection | | |
| i | Brass Ferrule as per IS 319 grade of sizes 15mm, 20mm and 25mm size and threaded as per IS:1554 BSPT, ISO:7-1 to suit the corresponding bore sizes of 15mm, 20mm and 25mm dia size (1/2", 3/4" and 1") in the saddle Connection, as per IS:1554 BSPT, ISO:7-1 | | |
| | 15mm (1/2") | 1 No. | 128.00 |
| | 20mm (3/4") | 1 No. | 213.00 |
| | 25mm (1") | 1 No. | 272.00 |
| ii | Poly Propylene compression Female Threaded Adaptor with metal insert of SS 304 as per standards ISO 14236 and Tested as per BS 6920 in WRC-NSF LTD, UK for connecting 15mm, 20mm and 25mm outlet points of Brass ferrule of sizes 15mm, 20mm and 25mm respectively. | | |

| SI.No | Description | Unit | Rate for 2018-19 in Rupees |
|-------|---|-------|----------------------------|
| | 20mm (1/2") | 1 No. | 106.00 |
| | 25mm (3/4") | 1 No. | 136.00 |
| | 32mm (1") | 1 No. | 162.00 |
| iii | Poly propylene 90 Degree Compression elbow with compression joint at both ends as per standards ISO 14236 and Tested as per BS 6920 in WRC-NSF LTD, UK suitable for 20mm, 25mm and 32mm OD MDPE pipes | | |
| | 20mm (1/2") | 1 No. | 60.00 |
| | 25mm (3/4") | 1 No. | 77.00 |
| | 32mm (1") | 1 No. | 123.00 |
| iv | Poly Propylene compression Female Threaded Elbow with metal insert of SS 304 as per standards ISO 14236 and Tested as per BS 6920 in WRC-NSF LTD, UK suitable for 20mm, 25mm and 32mm OD MDPE pipes | | |
| | 20mm (1/2") | 1 No. | 106.00 |
| | 25mm (3/4") | 1 No. | 136.00 |
| | 32mm (1") | 1 No. | 162.00 |
| v | Poly Propylene compression Male Threaded Adaptor with metal insert of SS 304 as per standards ISO 14236 and Tested as per BS 6920 in WRC-NSF LTD, UK suitable for 20mm, 25mm and 32mm OD MDPE pipes | | |
| | 20mm (1/2") | 1 No. | 102.00 |
| | 25mm (3/4") | 1 No. | 133.00 |
| | 32mm (1") | 1 No. | 162.00 |
| vi | MDPE PE 80 PN16 Blue pipe as per standards ISO 4427 and Tested as per BS 6920 in WRC-NSF LTD, UK | | |
| | 20mm (1/2") | 1M | 17.00 |
| vii | MDPE PE 80 PN12.5 Blue pipe as per standards ISO 4427 and Tested as per BS 6920 in WRC-NSF LTD, UK, suitable for 20mm, 25mm and 32mm OD MDPE pipes | | |
| | 25mm (3/4") | 1M | 24.00 |
| | 32mm (1") | 1M | 26.00 |
| viii | U PVC ball valve with one side compression end and other side female end as per ISO 4422-4 and Tested as per BS 6920 in WRC-NSF LTD, UK, size : 20mm ODx1/2"ID, 25mm ODX1/2"ID and 32mm OD X 3/4" ID | | |

| SI.No | Description | Unit | Rate for 2018-19 in Rupees |
|-------|--|-------|----------------------------|
| | 20mm (1/2") | 1 No. | 106.00 |
| | 25mm (3/4") | 1 No. | 136.00 |
| | 32mm (1") | 1 No. | 162.00 |
| ix | Supply and delivery of protection box of size 20cm x 30cm for fixing of Water Meter. The box should be rectangular base in construction and material of construction should be weather resistant polyethylene (PE) blue /black .Reinforcement ribs should be provided at the walls of the box. Box should be at two components comprising body and lid. Lid should be press fitted to the body. No hinges should be used for opened /closed. Operation meter box should be provided with built in lock. The body as inlet and outlet windows to pass the pipe through suitable for use with pipes of sizes up to 1" .Base of the box should be designed in such a way that the box can be installed to the floor/wall using anchor Bolts / screws without grouting the entire base of the meter Box. Provision for fixing Name plate showing the name of the Department etc., complete and as directed by the TWAD Board Officers. | 1 No. | 391.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

8.0 BAR WRAPPED STEEL CYLINDER PIPES AS PER IS 15155 - 2002

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|---------------|--------------------|-------------|--|
| | 4 Ksc Pipe | | |
| 1 | 350mm | Metre | 3284.00 |
| 2 | 400mm | Metre | 3608.00 |
| 3 | 450mm | Metre | 4097.00 |
| 4 | 500mm | Metre | 4451.00 |
| 5 | 600mm | Metre | 5860.00 |
| 6 | 700mm | Metre | 7132.00 |
| 7 | 800mm | Metre | 8552.00 |
| 8 | 900mm | Metre | 10524.00 |
| 9 | 1000mm | Metre | 12194.00 |
| 10 | 1100mm | Metre | 15915.00 |
| 11 | 1200mm | Metre | 17357.00 |
| 12 | 1300mm | Metre | 21959.00 |
| 13 | 1400mm | Metre | 24364.00 |
| 14 | 1500mm | Metre | 25498.00 |
| | 6 Ksc Pipe | | |
| 1 | 350mm | Metre | 3289.00 |
| 2 | 400mm | Metre | 3619.00 |
| 3 | 450mm | Metre | 4113.00 |
| 4 | 500mm | Metre | 4461.00 |
| 5 | 600mm | Metre | 5871.00 |
| 6 | 700mm | Metre | 7132.00 |
| 7 | 800mm | Metre | 8571.00 |
| 8 | 900mm | Metre | 10562.00 |
| 9 | 1000mm | Metre | 12212.00 |
| 10 | 1100mm | Metre | 15915.00 |
| 11 | 1200mm | Metre | 17796.00 |
| 12 | 1300mm | Metre | 21981.00 |
| 13 | 1400mm | Metre | 24431.00 |
| 14 | 1500mm | Metre | 25518.00 |
| | 8 Ksc Pipe | | |
| 1 | 350mm | Metre | 3292.00 |
| 2 | 400mm | Metre | 3639.00 |
| 3 | 450mm | Metre | 4131.00 |
| 4 | 500mm | Metre | 4473.00 |
| 5 | 600mm | Metre | 5871.00 |
| 6 | 700mm | Metre | 7132.00 |

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------|--------------------|-------|--------------------------------|
| 7 | 800mm | Metre | 8571.00 |
| 8 | 900mm | Metre | 10602.00 |
| 9 | 1000mm | Metre | 12469.00 |
| 10 | 1100mm | Metre | 15915.00 |
| 11 | 1200mm | Metre | 17357.00 |
| 12 | 1300mm | Metre | 22009.00 |
| 13 | 1400mm | Metre | 24498.00 |
| 14 | 1500mm | Metre | 25540.00 |
| | 10 Ksc Pipe | | |
| 1 | 350mm | Metre | 3294.00 |
| 2 | 400mm | Metre | 3665.00 |
| 3 | 450mm | Metre | 4153.00 |
| 4 | 500mm | Metre | 4485.00 |
| 5 | 600mm | Metre | 5871.00 |
| 6 | 700mm | Metre | 7132.00 |
| 7 | 800mm | Metre | 8571.00 |
| 8 | 900mm | Metre | 10643.00 |
| 9 | 1000mm | Metre | 12500.00 |
| 10 | 1100mm | Metre | 15915.00 |
| 11 | 1200mm | Metre | 17357.00 |
| 12 | 1300mm | Metre | 22038.00 |
| 13 | 1400mm | Metre | 24612.00 |
| 14 | 1500mm | Metre | 25565.00 |
| | 12 Ksc Pipe | | |
| 1 | 350mm | Metre | 3297.00 |
| 2 | 400mm | Metre | 3692.00 |
| 3 | 450mm | Metre | 4179.00 |
| 4 | 500mm | Metre | 4500.00 |
| 5 | 600mm | Metre | 5871.00 |
| 6 | 700mm | Metre | 7140.00 |
| 7 | 800mm | Metre | 8616.00 |
| 8 | 900mm | Metre | 10698.00 |
| 9 | 1000mm | Metre | 12613.00 |
| 10 | 1100mm | Metre | 15915.00 |
| 11 | 1200mm | Metre | 17464.00 |
| 12 | 1300mm | Metre | 22066.00 |
| 13 | 1400mm | Metre | 24714.00 |
| 14 | 1500mm | Metre | 25602.00 |

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------|--------------------|-------|--------------------------------|
| | 14 Ksc Pipe | | |
| 1 | 350mm | Metre | 3300.00 |
| 2 | 400mm | Metre | 3714.00 |
| 3 | 450mm | Metre | 4211.00 |
| 4 | 500mm | Metre | 4530.00 |
| 5 | 600mm | Metre | 5984.00 |
| 6 | 700mm | Metre | 7525.00 |
| 7 | 800mm | Metre | 9348.00 |
| 8 | 900mm | Metre | 11269.00 |
| 9 | 1000mm | Metre | 13391.00 |
| 10 | 1100mm | Metre | 16230.00 |
| 11 | 1200mm | Metre | 18459.00 |
| 12 | 1300mm | Metre | 22094.00 |
| 13 | 1400mm | Metre | 26082.00 |
| 14 | 1500mm | Metre | 27597.00 |
| | 16 Ksc Pipe | | |
| 1 | 350mm | Metre | 3305.00 |
| 2 | 400mm | Metre | 3739.00 |
| 3 | 450mm | Metre | 4246.00 |
| 4 | 500mm | Metre | 4985.00 |
| 5 | 600mm | Metre | 6386.00 |
| 6 | 700mm | Metre | 8019.00 |
| 7 | 800mm | Metre | 10135.00 |
| 8 | 900mm | Metre | 12246.00 |
| 9 | 1000mm | Metre | 13991.00 |
| 10 | 1100mm | Metre | 17511.00 |
| 11 | 1200mm | Metre | 19474.00 |
| 12 | 1300mm | Metre | 24778.00 |
| 13 | 1400mm | Metre | 27040.00 |
| 14 | 1500mm | Metre | 31872.00 |
| | 18 Ksc Pipe | | |
| 1 | 350mm | Metre | 3310.00 |
| 2 | 400mm | Metre | 3779.00 |
| 3 | 450mm | Metre | 4310.00 |
| 4 | 500mm | Metre | 5169.00 |
| 5 | 600mm | Metre | 6687.00 |
| 6 | 700mm | Metre | 8397.00 |

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|---------------|--------------------|-------------|--|
| 7 | 800mm | Metre | 10588.00 |
| 8 | 900mm | Metre | 13118.00 |
| 9 | 1000mm | Metre | 15824.00 |
| 10 | 1100mm | Metre | 18132.00 |
| 11 | 1200mm | Metre | 22061.00 |
| 12 | 1300mm | Metre | 26199.00 |
| 13 | 1400mm | Metre | 29645.00 |
| 14 | 1500mm | Metre | 31972.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

9.0 PIPES FOR UGSS

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees. |
|-------|---|-------|-----------------------------|
| 1 | Supply and Delivery of DWC Structured Wall Polyethylene Piping Systems (Pipe with online/offline coupler and elastomeric sealing ring) with required specials non-smooth external annular corrugated and smooth internal surface (Double wall) (SN 8 Class) for non-pressure underground sewerage, drainage application generally as per IS-16098 (Part-2) type B. | | |
| a | 150mm ID SN 8 pipe | Per M | 251.00 |
| b | 200mm ID SN 8 pipe | Per M | 354.00 |
| c | 250mm ID SN 8 pipe | Per M | 605.00 |
| d | 300mm ID SN 8 pipe | Per M | 876.00 |
| 2 | Supply and delivery of HDPE pipes for sewerage PE 100 PN 6 conforming to IS : 14333/1996 (Amended in 2009) | | |
| a | 355 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade) | Per M | 3511.00 |
| b | 400 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade) | Per M | 4562.00 |
| c | 450 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade) | Per M | 5762.00 |
| d | 500 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade) | Per M | 7121.00 |
| e | 560 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade) | Per M | 8901.00 |
| f | 630 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade) | Per M | 11272.00 |
| g | 710 mm/ PN.6/HDPE Pipe 'ISI'(PE 100 Grade) | Per M | 14306.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO.

**10.0 M.S. PIPES- SPIRAL/LONGITUDINAL WELDING AS PER IS 3589/2001
WITH INTERNAL LINING AND EXTERNAL COATING MADE WITH FE410**

- 1 Supply and Delivery of MS pipes of preferred dimensions ranging from 168.30mm OD to 2540mm OD having 2.6mm to 25mm thickness as per Table-5 of IS 3589/2001 fabricated with Fe410 grade steel conforming to IS 3589:2001 and other allied codes.
- 2 Pipes shall be internally lined with plant applied cement mortar lining 1:2, The Lining thickness range from 6 mm to 12 mm for 168.3 mm OD to 2540 mm OD as per Table -8 of IS 3589:2001
- 3 Pipes shall be externally coated with plant applied CM 1:3, 20mm thick minimum including reinforcement as per clause A-9 of Annex-A of IS 3589:2001
- 4 Pipes shall be internally lined with plant applied Food Grade Liquid epoxy coating of minimum dry film thickness (DFT)of 406 microns as per Annex -B ,Clause- 1.2 of IS 3589:2001
- 5 Pipes shall be externally coated with plant applied Food grade liquid Epoxy coating of 406 microns dry film minimum thickness (DFT)as per Annex - B of IS 3589:2001
- 6 Pipes shall be externally coated double coating & double wrapping minimum 4mm thick per metre with plant applied coal Tar as per clause 6.1 of IS 10221:2008 recommendations.
- 7 External polyethylene sheathing as per IS recommendations.

| Sl. No. | Dia metre & thickness of pipe in mm | Rate for 2018-19 in Rupees | | | | | | | |
|---------|-------------------------------------|----------------------------|--|-----------------------------------|--|--|---|--|--|
| | | Bare pipe per metre | CML Internal 6mm to 12mm thick per metre | CMC external 20mm thick per metre | Internal food grade epoxy coating 406 micr.per metre | External epoxy Coating 406 micr. per metre | CTE external double coating & double wrapping minimum 4mm thick per metre | External Polyethylene Sheeting per metre | Transpo-ration any where in Tamil-nadu per metre |
| 1 | 168.3X2.6 | 571.00 | 320.00 | 525.00 | 544.00 | 690.00 | 600.00 | 751.00 | 310.00 |
| 2 | 168.3X3.2 | 700.00 | 320.00 | 525.00 | 544.00 | 690.00 | 600.00 | 751.00 | 310.00 |
| 3 | 168.3X4 | 873.00 | 320.00 | 525.00 | 544.00 | 690.00 | 600.00 | 751.00 | 310.00 |
| 4 | 168.3X4.5 | 981.00 | 320.00 | 525.00 | 544.00 | 690.00 | 600.00 | 751.00 | 310.00 |
| 5 | 219.1X2.6 | 749.00 | 433.00 | 699.00 | 705.00 | 900.00 | 780.00 | 980.00 | 310.00 |
| 6 | 219.1X3.6 | 1029.00 | 433.00 | 699.00 | 705.00 | 900.00 | 780.00 | 980.00 | 310.00 |
| 7 | 219.1X4.5 | 1238.00 | 433.00 | 699.00 | 705.00 | 900.00 | 780.00 | 980.00 | 310.00 |
| 8 | 219.1X6.3 | 1714.00 | 433.00 | 699.00 | 705.00 | 900.00 | 780.00 | 980.00 | 310.00 |
| 9 | 273X3.6 | 1288.00 | 539.00 | 851.00 | 878.00 | 1100.00 | 1000.00 | 1248.00 | 310.00 |
| 10 | 273X4 | 1430.00 | 539.00 | 851.00 | 878.00 | 1100.00 | 1000.00 | 1248.00 | 310.00 |
| 11 | 273X5 | 1762.00 | 539.00 | 851.00 | 878.00 | 1100.00 | 1000.00 | 1248.00 | 310.00 |
| 12 | 273X6.3 | 2143.00 | 539.00 | 851.00 | 878.00 | 1100.00 | 1000.00 | 1248.00 | 310.00 |
| 13 | 323.9X4 | 1698.00 | 641.00 | 980.00 | 1050.00 | 1298.00 | 1193.00 | 1483.00 | 310.00 |
| 14 | 323.9X4.5 | 1761.00 | 641.00 | 980.00 | 1050.00 | 1298.00 | 1193.00 | 1483.00 | 310.00 |

| Sl. No. | Dia metre & thickness of pipe in mm | Bare pipe per metre | CML Internal 6mm to 12mm thick per metre | CMC external 20mm thick per metre | Internal food grade epoxy coating 406 micr. per metre | External epoxy Coating 406 micr. per metre | CTE external double coating & double wrapping minimum 4mm thick per metre | External Polyethylene Sheeting per metre | Transportation any where in Tamilnadu per metre |
|---------|-------------------------------------|---------------------|--|-----------------------------------|---|--|---|--|---|
| 15 | 323.9X5.6 | 2238.00 | 641.00 | 980.00 | 1050.00 | 1298.00 | 1193.00 | 1483.00 | 310.00 |
| 16 | 323.9X7.1 | 2952.00 | 641.00 | 980.00 | 1050.00 | 1298.00 | 1193.00 | 1483.00 | 310.00 |
| 17 | 355.6X4 | 1809.00 | 700.00 | 1090.00 | 1050.00 | 1390.00 | 1259.00 | 1600.00 | 310.00 |
| 18 | 355.6X5 | 2286.00 | 700.00 | 1090.00 | 1050.00 | 1390.00 | 1259.00 | 1600.00 | 310.00 |
| 19 | 355.6X5.6 | 2571.00 | 700.00 | 1090.00 | 1050.00 | 1390.00 | 1259.00 | 1600.00 | 310.00 |
| 20 | 355.6X8 | 3524.00 | 700.00 | 1090.00 | 1050.00 | 1390.00 | 1259.00 | 1600.00 | 310.00 |
| 21 | 406.4X4 | 2048.00 | 807.00 | 1236.00 | 1329.00 | 1600.00 | 1363.00 | 1800.00 | 330.00 |
| 22 | 406.4X5 | 2381.00 | 807.00 | 1236.00 | 1329.00 | 1600.00 | 1363.00 | 1800.00 | 330.00 |
| 23 | 406.4X6.3 | 3238.00 | 807.00 | 1236.00 | 1329.00 | 1600.00 | 1363.00 | 1800.00 | 330.00 |
| 24 | 406.4X8.8 | 4476.00 | 807.00 | 1236.00 | 1329.00 | 1600.00 | 1363.00 | 1800.00 | 330.00 |
| 25 | 457X4 | 2381.00 | 900.00 | 1261.00 | 1329.00 | 1850.00 | 1256.00 | 1854.00 | 330.00 |
| 26 | 457X5 | 2952.00 | 900.00 | 1261.00 | 1329.00 | 1850.00 | 1256.00 | 1898.00 | 330.00 |
| 27 | 457X6.3 | 3572.00 | 900.00 | 1261.00 | 1329.00 | 1850.00 | 1256.00 | 1898.00 | 330.00 |
| 28 | 457X10 | 5714.00 | 900.00 | 1261.00 | 1329.00 | 1850.00 | 1256.00 | 1898.00 | 330.00 |
| 29 | 508X5 | 3286.00 | 950.00 | 1350.00 | 1446.00 | 1927.00 | 1395.00 | 1953.00 | 395.00 |
| 30 | 508X5.6 | 3619.00 | 950.00 | 1350.00 | 1446.00 | 1927.00 | 1395.00 | 1953.00 | 395.00 |
| 31 | 508X6.3 | 4048.00 | 950.00 | 1350.00 | 1446.00 | 1927.00 | 1395.00 | 1953.00 | 395.00 |
| 32 | 508X11 | 6952.00 | 950.00 | 1350.00 | 1446.00 | 1927.00 | 1395.00 | 1953.00 | 395.00 |
| 33 | 610X5.8 | 4524.00 | 1151.00 | 1600.00 | 1651.00 | 2400.00 | 1643.00 | 2600.00 | 495.00 |
| 34 | 610X6.3 | 5000.00 | 1151.00 | 1600.00 | 1651.00 | 2400.00 | 1643.00 | 2600.00 | 495.00 |
| 35 | 610X12.5 | 9523.00 | 1151.00 | 1600.00 | 1651.00 | 2400.00 | 1643.00 | 2600.00 | 495.00 |
| 36 | 711X6.3 | 5619.00 | 1401.00 | 1899.00 | 1952.00 | 2583.00 | 1923.00 | 3000.00 | 495.00 |
| 37 | 711X7.1 | 6380.00 | 1401.00 | 1899.00 | 1952.00 | 2730.00 | 1923.00 | 3000.00 | 495.00 |
| 38 | 711X14.2 | 12856.00 | 1401.00 | 1899.00 | 1952.00 | 2750.00 | 1923.00 | 3000.00 | 495.00 |
| 39 | 813X7.1 | 6476.00 | 1600.00 | 2150.00 | 2250.00 | 2966.00 | 2051.00 | 3400.00 | 658.00 |
| 40 | 813X8 | 8786.00 | 1600.00 | 2150.00 | 2250.00 | 3231.00 | 2051.00 | 3400.00 | 658.00 |
| 41 | 813X18 | 19046.00 | 1600.00 | 2150.00 | 2250.00 | 3251.00 | 2051.00 | 3400.00 | 658.00 |
| 42 | 914X8 | 9047.00 | 1700.00 | 2300.00 | 2451.00 | 3399.00 | 2400.00 | 3900.00 | 956.00 |
| 43 | 914X8.8 | 9999.00 | 1700.00 | 2300.00 | 2451.00 | 3500.00 | 2400.00 | 3900.00 | 956.00 |
| 44 | 914X10 | 11285.00 | 1700.00 | 2300.00 | 2451.00 | 3500.00 | 2400.00 | 3900.00 | 956.00 |

| Sl. No. | Dia metre & thickness of pipe in mm | Bare pipe per metre | CML Internal 6mm to 12mm thick per metre | CMC external 20mm thick per metre | Internal food grade epoxy coating 406 micr. per metre | External epoxy Coating 406 micr. per metre | CTE external double coating & double wrapping minimum 4mm thick per metre | External Polyethylene Sheeting per metre | Transportation any where in Tamilnadu per metre |
|---------|-------------------------------------|---------------------|--|-----------------------------------|---|--|---|--|---|
| 45 | 914X17.5 | 19522.00 | 1700.00 | 2300.00 | 2451.00 | 3500.00 | 2400.00 | 3900.00 | 956.00 |
| 46 | 1016X8.8 | 11237.00 | 1899.00 | 2700.00 | 2900.00 | 3761.00 | 2793.00 | 4725.00 | 1800.00 |
| 47 | 1016X10 | 12856.00 | 1899.00 | 2700.00 | 2900.00 | 3999.00 | 2793.00 | 4725.00 | 1800.00 |
| 48 | 1016X20 | 24760.00 | 1899.00 | 2700.00 | 2900.00 | 3999.00 | 2793.00 | 4725.00 | 1800.00 |
| 49 | 1067X8.8 | 11713.00 | 1952.00 | 2750.00 | 2904.00 | 4099.00 | 2851.00 | 4881.00 | 1800.00 |
| 50 | 1067X10 | 13332.00 | 1952.00 | 2750.00 | 2904.00 | 4099.00 | 2851.00 | 4881.00 | 1800.00 |
| 51 | 1067X11 | 14475.00 | 1952.00 | 2750.00 | 2904.00 | 4099.00 | 2851.00 | 4881.00 | 1800.00 |
| 52 | 1118X8.8 | 12250.00 | 2100.00 | 2799.00 | 3000.00 | 4247.00 | 2910.00 | 5000.00 | 1800.00 |
| 53 | 1118X10 | 13808.00 | 2100.00 | 2799.00 | 3000.00 | 4247.00 | 2910.00 | 5000.00 | 1800.00 |
| 54 | 1118X11 | 14570.00 | 2100.00 | 2799.00 | 3000.00 | 4247.00 | 2910.00 | 5000.00 | 1800.00 |
| 55 | 1219X10 | 15094.00 | 2350.00 | 2900.00 | 3100.00 | 4472.00 | 3288.00 | 5200.00 | 1912.00 |
| 56 | 1219X11 | 16665.00 | 2350.00 | 2710.00 | 3100.00 | 4472.00 | 3288.00 | 5200.00 | 1912.00 |
| 57 | 1219X12.5 | 19046.00 | 2350.00 | 2710.00 | 3100.00 | 4472.00 | 3288.00 | 5200.00 | 1912.00 |
| 58 | 1422X12.5 | 22046.00 | 2600.00 | 3599.00 | 3505.00 | 5500.00 | 3599.00 | 6000.00 | 1912.00 |
| 59 | 1422X14.2 | 25236.00 | 2600.00 | 3599.00 | 4201.00 | 5500.00 | 3599.00 | 6000.00 | 1912.00 |
| 60 | 1626X14.2 | 28664.00 | 3100.00 | 4099.00 | 4300.00 | 6299.00 | 4469.00 | 6999.00 | 2249.00 |
| 61 | 1626X16 | 32854.00 | 3100.00 | 4099.00 | 4300.00 | 6299.00 | 4469.00 | 6999.00 | 2249.00 |
| 62 | 1829X14.2 | 32854.00 | 3187.00 | 4600.00 | 4700.00 | 6999.00 | 4600.00 | 7999.00 | 2361.00 |
| 63 | 1829X16 | 36759.00 | 3187.00 | 4600.00 | 4700.00 | 6999.00 | 4600.00 | 7476.00 | 2361.00 |
| 64 | 1829X17.5 | 40197.00 | 3187.00 | 4600.00 | 4700.00 | 6999.00 | 4600.00 | 7999.00 | 2361.00 |
| 65 | 2032X16 | 40949.00 | 3751.00 | 5200.00 | 5500.00 | 7799.00 | 5200.00 | 8597.00 | 2583.00 |
| 66 | 2032X17.5 | 44377.00 | 3751.00 | 5200.00 | 5500.00 | 7799.00 | 5200.00 | 8699.00 | 2812.00 |
| 67 | 2032X20 | 50091.00 | 3751.00 | 5200.00 | 5500.00 | 7799.00 | 5200.00 | 8699.00 | 2812.00 |
| 68 | 2235X17.5 | 49520.00 | 4201.00 | 5700.00 | 6000.00 | 8501.00 | 5700.00 | 9349.00 | 2842.00 |
| 69 | 2235X20 | 57138.00 | 4201.00 | 5700.00 | 6000.00 | 8501.00 | 5700.00 | 9499.00 | 2842.00 |
| 70 | 2235X22.2 | 61900.00 | 4201.00 | 5700.00 | 6000.00 | 8501.00 | 5700.00 | 9499.00 | 2842.00 |
| 71 | 2540X20 | 66661.00 | 4800.00 | 6500.00 | 6800.00 | 9899.00 | 6599.00 | 10999.00 | 3128.00 |
| 72 | 2540X22.2 | 71423.00 | 4800.00 | 6500.00 | 6800.00 | 9899.00 | 6599.00 | 10999.00 | 3128.00 |
| 73 | 2540X25 | 80946.00 | 4800.00 | 6500.00 | 6800.00 | 9899.00 | 6599.00 | 10999.00 | 3128.00 |

Note: 1) The above rates are basic rates.
2) GST extra applicable as per GO

10.1 MS SPECIALS AS PER IS 1916

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------------|---|-------------|---------------------------------------|
| 1 | Supply and Delivery of MS specials with inside lining/epoxy coating as per IS 13620 -1993 and outside coating with cement mortar 20mm thick as per IS 1916-1989 and IS 7322-1985. | Kg | 96.00 |
| 2 | Supply and Delivery of MS specials as per IS 7322-1985 without inside lining and outside coating. | Kg | 88.00 |
| 3 | Supply and Delivery of MS specials without inside lining and outside coating but with anti rust painting as per IS 14589 -1999. | Kg | 90.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

11.0 RCC NON PRESSURE SPUN PIPE AS PER IS 458/2003

RCC non pressure spun pipe with socket and spigot ends as per IS 458/2003 manufactured with sulphate resistant cement with 12 mm HI -alumina lining provided for rubber ring joints.

| Sl. No. | Internal Dia. | Unit | Rate for 2018-19 in Rupees | | |
|---------|---------------|-----------|----------------------------|-----------|-----------|
| | | | NP2 Class | NP3 Class | NP4 Class |
| 1 | 200mm | One Metre | 647.00 | 686.00 | 726.00 |
| 2 | 250mm | One Metre | 746.00 | 805.00 | 845.00 |
| 3 | 300mm | One Metre | 873.00 | 983.00 | 1083.00 |
| 4 | 350mm | One Metre | 1152.00 | 1690.00 | 1730.00 |
| 5 | 400mm | One Metre | 1430.00 | 1918.00 | 1958.00 |
| 6 | 450mm | One Metre | 1710.00 | 2220.00 | 2423.00 |
| 7 | 500mm | One Metre | 2070.00 | 2515.00 | 2796.00 |
| 8 | 600mm | One Metre | 2216.00 | 2892.00 | 3223.00 |
| 9 | 700mm | One Metre | 3261.00 | 4413.00 | 4565.00 |
| 10 | 800mm | One Metre | 3796.00 | 5276.00 | 5692.00 |
| 11 | 900mm | One Metre | 4189.00 | 6085.00 | 6581.00 |
| 12 | 1000mm | One Metre | 4967.00 | 6732.00 | 7779.00 |
| 13 | 1100mm | One Metre | 5921.00 | 9618.00 | 10710.00 |
| 14 | 1200mm | One Metre | 6794.00 | 11738.00 | 12925.00 |
| 15 | 1400mm | One Metre | 8127.00 | 14530.00 | 16557.00 |
| 16 | 1500mm | One Metre | 15975.00 | 17566.00 | 18326.00 |
| 17 | 1600mm | One Metre | 18583.00 | 21606.00 | 22461.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO

11.1 RUBBER GASKETS AS PER IS 5382/1985 (Reaffirmed 1998)

| Sl. No. | Internal Dia. | Unit | Rate for 2018-19 in Rupees | | |
|---------|---------------|------|----------------------------|-----------|-----------|
| | | | NP2 Class | NP3 Class | NP4 Class |
| 1 | 200mm | Each | 32.00 | 37.00 | 44.00 |
| 2 | 250mm | Each | 37.00 | 44.00 | 51.00 |
| 3 | 300mm | Each | 44.00 | 51.00 | 57.00 |
| 4 | 350mm | Each | 51.00 | 63.00 | 69.00 |
| 5 | 400mm | Each | 70.00 | 84.00 | 88.00 |
| 6 | 450mm | Each | 90.00 | 100.00 | 101.00 |
| 7 | 500mm | Each | 100.00 | 120.00 | 120.00 |
| 8 | 600mm | Each | 120.00 | 150.00 | 156.00 |
| 9 | 700mm | Each | 157.00 | 183.00 | 196.00 |
| 10 | 800mm | Each | 180.00 | 215.00 | 221.00 |
| 11 | 900mm | Each | 240.00 | 270.00 | 277.00 |
| 12 | 1000mm | Each | 300.00 | 340.00 | 340.00 |
| 13 | 1100mm | Each | 360.00 | 460.00 | 460.00 |
| 14 | 1200mm | Each | 480.00 | 576.00 | 580.00 |
| 15 | 1400mm | Each | 600.00 | 740.00 | 740.00 |
| 16 | 1500mm | Each | 730.00 | 940.00 | 940.00 |
| 17 | 1600mm | Each | 806.00 | 1100.00 | 1100.00 |

- Note :
- 1) The above rates are basic rates.
 - 2) GST extra applicable as per GO

**12.0 CI D/F SLUICE VALVE WITH CAP/ WHEEL
AS PER IS 14846/2000 PN 1.0 WITH ISI MARKING**

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|---------------|--------------------|-------------|--|
| 1 | 50 mm | Each | 4049.00 |
| 2 | 65mm | Each | 4644.00 |
| 3 | 80mm | Each | 4916.00 |
| 4 | 100mm | Each | 6884.00 |
| 5 | 125mm | Each | 8899.00 |
| 6 | 150mm | Each | 10651.00 |
| 7 | 200mm | Each | 18152.00 |
| 8 | 250mm | Each | 27964.00 |
| 9 | 300mm | Each | 35457.00 |
| 10 | 350mm | Each | 53336.00 |
| 11 | 400mm | Each | 67668.00 |
| 12 | 450mm | Each | 86070.00 |
| 13 | 500mm | Each | 105986.00 |
| 14 | 600mm | Each | 160261.00 |
| 15 | 700mm | Each | 302607.00 |
| 16 | 750mm | Each | 337462.00 |
| 17 | 800mm | Each | 411654.00 |
| 18 | 900mm | Each | 539783.00 |
| 19 | 1000mm | Each | 832655.00 |
| 20 | 1100mm | Each | 1034976.00 |
| 21 | 1200mm | Each | 1223666.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

**12.1 C.I. D/F REFLUX VALVE AS PER I.S. 5312/2004/ PART I/ 84 PN 1.0
WITH BYE-PASS ARRANGEMENTS WITH ISI MARKING**

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|---------------|--------------------|-------------|--|
| 1 | 50 mm | Each | 4088.00 |
| 2 | 65 mm | Each | 4556.00 |
| 3 | 80 mm | Each | 5532.00 |
| 4 | 100 mm | Each | 7146.00 |
| 5 | 125 mm | Each | 9051.00 |
| 6 | 150 mm | Each | 10814.00 |
| 7 | 200 mm | Each | 22770.00 |
| 8 | 250 mm | Each | 33568.00 |
| 9 | 300 mm | Each | 43876.00 |
| 10 | 350 mm | Each | 69005.00 |
| 11 | 400 mm | Each | 90663.00 |
| 12 | 450 mm | Each | 127082.00 |
| 13 | 500 mm | Each | 183108.00 |
| 14 | 600 mm | Each | 236547.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.2 C.I. DOUBLE AIR VALVE AS PER ISI 14845/2000

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------|-------------|------|--------------------------------|
| 1 | 40 mm | Each | 4293.00 |
| 2 | 50 mm | Each | 5303.00 |
| 3 | 80 mm | Each | 7169.00 |
| 4 | 100 mm | Each | 9760.00 |
| 5 | 150mm | Each | 19562.00 |
| 6 | 200mm | Each | 31979.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.3 CI SINGLE AIR VALVE AS PER ISI 14845/2000

| Sl.No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------|-------------|------|--------------------------------|
| 1 | 15mm | Each | 1125.00 |
| 2 | 25 mm | Each | 1618.00 |
| 3 | 40 mm | Each | 2022.00 |
| 4 | 50 mm | Each | 2242.00 |
| 5 | 80 mm | Each | 3003.00 |
| 6 | 100 mm | Each | 3269.00 |
| 7 | 150mm | Each | 5818.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.4 KINETIC AIR VALVES FOR HANDLING MORE VOLUMES OF AIR IN PUMPING MAIN, DOUBLE ORIFICE KINETIC AIR VALVE CONFIRMING TO IS 14845 TAMPER PROOF DESIGN (PN-1)

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 50mm | 1 No. | 11776.00 |
| 2 | 80mm | 1 No. | 14576.00 |
| 3 | 100mm | 1 No. | 19588.00 |
| 4 | 150mm | 1 No. | 34278.00 |
| 5 | 200mm | 1 No. | 49226.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.5 CI SLUICE VALVES NON RAISING SPINDLE TYPES TO PRESSURE RATING OF 1.6 PN TO BE USED IN PUMP HOUSES (LONG BODY/ LONG FACE TO FACE) Conforming to IS.

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-----------------------------|------|----------------------------|
| 1 | 100mm | 1No. | 8218.00 |
| 2 | 125mm | 1No. | 10179.00 |
| 3 | 150mm | 1No. | 13217.00 |
| 4 | 200mm | 1No. | 22655.00 |
| 5 | 250mm | 1No. | 30523.00 |
| 6 | 300mm | 1No. | 42127.00 |
| | With spur gear arrangements | | |
| 7 | 350mm | 1No. | 67749.00 |
| 8 | 400mm | 1No. | 87141.00 |
| 9 | 450mm | 1No. | 107685.00 |
| 10 | 500mm | 1No. | 135141.00 |
| 11 | 600mm | 1No. | 200277.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.6 BUTTERFLY VALVES WITH TOP AND BOTTOM OF S.S. 410 SHAFT, WAFER LINER/ WITH REDUCTION GEAR UNIT (Conforming to BS 5155 & IS 13095/1996)

12.6.1 WAFER LINER

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 100mm | 1 No. | 2886.00 |
| 2 | 150mm | 1 No. | 4092.00 |
| 3 | 200mm | 1 No. | 11357.00 |
| 4 | 250mm | 1 No. | 14661.00 |
| 5 | 300mm | 1 No. | 19194.00 |

12.6.2 D/F GEAR OPERATED

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 400mm | 1 No. | 70428.00 |
| 2 | 450mm | 1 No. | 86794.00 |
| 3 | 500mm | 1 No. | 93790.00 |
| 4 | 600mm | 1 No. | 115249.00 |

Conforming to standard BS 5155 Butterfly valve with Body, Disc and retainer of Cast Iron Grade F.260 with EDPM rubber sleeve. Internal hardware shall be confirming to AISI 304. External hardware Carbon Steel shall be confirming to IS 1367. Top and bottom shaft stainless steel to AISI 410. Body and disc should be tested (Hydro test) to 15 kg/sq.cm.

12.7 NON RETURN VALVES

12.7.1 WAFER TYPE (DUAL PLATE CHECK VALVE) CONFORMING TO IS

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 100mm | 1 No. | 3481.00 |
| 2 | 150mm | 1 No. | 7752.00 |
| 3 | 200mm | 1 No. | 14218.00 |
| 4 | 250mm | 1 No. | 24774.00 |
| 5 | 300mm | 1 No. | 31650.00 |

12.7.2 DOUBLE FLANGED (DUAL PLATE CHECK VALVE)

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|-------------------------------|
| 1 | 400mm | 1 No. | 75156.00 |
| 2 | 450mm | 1 No. | 82321.00 |
| 3 | 500mm | 1 No. | 91597.00 |
| 4 | 600mm | 1 No. | 113190.00 |
| 5 | 700mm | 1 No. | 194358.00 |
| 6 | 800mm | 1 No. | 306525.00 |
| 7 | 900mm | 1 No. | 428670.00 |
| 8 | 1000mm | 1 No. | 557529.00 |
| 9 | 1100mm | 1 No. | 696813.00 |
| 10 | 1200mm | 1 No. | 828390.00 |

Construction conforming to standard API 594. Body should confirm cast iron Grade FG 260 (IS 210), Disc plates confirming to ASTM A216, hinch pin/ stop pin/ spring should be of SS to AISI 410/304. Body seat should be of EDPM rubber. The body should be tested to 15 kg/ sq.cm and seat should be tested to 10 kg/ sq.cm

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.7.3 D/F NON RETURN VALVE (OUT DOOR USE)

CI Single Door/ Multi Door Non return valve conforming to IS 5312/2003(part I & II) to be fixed after Water meter/ Flow recorder on pumping main near Pump house with dash pot arrangement for 90% fast closing & 10% slow closing.

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|-------------------------------|
| 1 | 300mm | 1 No. | 57011.00 |
| 2 | 350mm | 1 No. | 87017.00 |
| 3 | 400mm | 1 No. | 104992.00 |
| 4 | 450mm | 1 No. | 145762.00 |
| 5 | 500mm | 1 No. | 191050.00 |
| 6 | 600mm | 1 No. | 293577.00 |
| 7 | 700/750mm | 1 No. | 460483.00 |
| 8 | 800mm | 1 No. | 534582.00 |
| 9 | 900mm | 1 No. | 1022763.00 |
| 10 | 1000mm | 1 No. | 1329700.00 |
| 11 | 1100mm | 1 No. | 1636639.00 |
| 12 | 1200mm | 1 No. | 1841083.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.8 DI SINGLE CHAMBER AIR RELEASE VALVE

Manufacture, Supply and Delivery of Tamper proof DI single chamber air release valves with pressure range from PN 1.0 to 2.5 with body and cover made of Ductile Iron of Grade GGG 40 or equivalent grade conforming to IS 1865 with Food Grade Epoxy Powder coating(EP-P) inside and for outside of colour blue RAL 5005. All internal parts such as float, shell etc., cover bolts, made of Austenitic alloy steel of SS AISI 304/316. The float shall be made of Polytetrafluoroethylene/ Austenitic alloy steel of AISI 304/316. Gaskets and seals of EPDM / Neoprene rubber for TWAD Board works anywhere in Tamil Nadu.

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|------|-------------------------------|
| 1 | 50mm | each | 26681.00 |
| 2 | 80mm | each | 35595.00 |
| 3 | 100mm | each | 41558.00 |
| 4 | 150mm | each | 50592.00 |
| 5 | 200mm | each | 59025.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.9 DI D/F GATE VALVES

Supply and Delivery of DI D/F Gate valves (Soft Seated) resilient seated soft sealing gate valves (sluice valves) with body bonnet of ductile cast iron of grade GGG40 or equivalent grade, wedge fully rubber lined with EPDM, replaceable spindle nut, without gland packing and with 3 O-Ring protection on the shaft and seals of NBR and the valves should be of vacuum tight and 100% leak proof with face to face dimensions as EPR BS 5163-89/ ISI 14846-2000/ DIN 3202 F 4. All the valves should be with electrostatic powder coating both inside and outside with pocket less straight thro' body passage. All the valves are to be compatible for buried application with pressure rating PN 10/16

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|-------------------------------|
| 1 | 50mm | 1 No. | 8067.00 |
| 2 | 80mm | 1 No. | 9961.00 |
| 3 | 100mm | 1 No. | 13132.00 |
| 4 | 150mm | 1 No. | 20676.00 |
| 5 | 200mm | 1 No. | 34360.00 |
| 6 | 250mm | 1 No. | 49883.00 |
| 7 | 300mm | 1 No. | 71920.00 |
| 8 | 350mm | 1 No. | 199812.00 |
| 9 | 400mm | 1 No. | 247416.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.10 DI D/F BUTTERFLY VALVES

Supply and Delivery of DI D/F Butterfly Valves with GGG40 or equivalent grade as per IS 3896 (part 2) 1985 and subsequent revisions double eccentric disc with renewable soft seal on the disc and body seat face of stainless steel / nickel weld overlay microfinished with powder or liquid epoxy coating with minimum thickness of 250 microns applied on both body and disc inside and outside face to face dimensions as per AWWA C 504 or BS 5155 or IS 13095

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees | |
|--------|-------------|-------|----------------------------|------------|
| | | | PN 10 | PN 16 |
| 1 | 400mm | 1 No. | 143405.00 | 195886.00 |
| 2 | 450mm | 1 No. | 200108.00 | 215043.00 |
| 3 | 500mm | 1 No. | 203246.00 | 217094.00 |
| 4 | 600mm | 1 No. | 265201.00 | 284530.00 |
| 5 | 700mm | 1 No. | 397801.00 | 477786.00 |
| 6 | 800mm | 1 No. | 501217.00 | 601751.00 |
| 7 | 900mm | 1 No. | 644627.00 | 752072.00 |
| 8 | 1000mm | 1 No. | 830193.00 | 969060.00 |
| 9 | 1100mm | 1 No. | 1095756.00 | 1148075.00 |
| 10 | 1200mm | 1 No. | 1304750.00 | 1308231.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.11 DI Non - Return Valve

Manufacture, Supply and Delivery of DI D/F Slanted seat Swing Check Valve. Body of ductile cast iron GGG-40 or equivalent grade and disc of ductile cast iron GGG-40 or equivalent grade with fully encapsulated EPDM rubber, where both faces can be used. Electrostatic epoxy powder/liquid coating (EP-P) inside and outside color blue RAL 5005 with minimum coating thickness of 250 microns. The EPDM rubber & Epoxy Powder should be approved by W 270. (EP-P) it is a resi-coat powder approved for drinking water application, applied through fusion bonding process by dipping the shot-blasted casted components heated up to 200 deg C). Face to face dimensions as per EN558-1, series 48 and flange connections as per EN 1092-2/IS 1538.

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 40mm | 1 No. | 10158.00 |
| 2 | 50mm | 1 No. | 10456.00 |
| 3 | 65mm | 1 No. | 13375.00 |
| 4 | 80mm | 1 No. | 14537.00 |
| 5 | 100mm | 1 No. | 17162.00 |
| 6 | 125 mm | 1 No. | 26133.00 |
| 7 | 150mm | 1 No. | 32859.00 |
| 8 | 200 mm | 1 No. | 52271.00 |
| 9 | 250mm | 1 No. | 100081.00 |
| 10 | 300mm | 1 No. | 136974.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.12 DI Wafer type Butterfly Valve

Manufacturing, supply and delivery of resilient seated wafer type butterfly valve in accordance with EN 593, centric disk mounted in three maintenance-free bearing bushes, tight in both flow directions, Replaceable rubber sleeve with integrated seal for functionally reliable use for flared flanges, welding flanges, PE flanges as well as loose flanges with V-collar, Stable seat due to collar with vulcanized support ring. Vacuum tight upto 1 Torr. Face to face length acc.to 558-1, basic series 20 (DIN 3202/k1). With Electrostatic epoxy powder coating (EP-P) inside and outside color blue RAL 5005 with minimum coating thickness of 250 microns. The EPDM rubber & Epoxy Powder should be approved by W 270.(EP-P it is resi-coat powder approved for drinking water application, applied through fusion bonding technology process by dipping the shot-blasted casted components heated upto 200 deg C).

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|-------------------------------|
| 1 | 40mm | 1 No. | 10062.00 |
| 2 | 50mm | 1 No. | 10062.00 |
| 3 | 65mm | 1 No. | 10399.00 |
| 4 | 80mm | 1 No. | 11322.00 |
| 5 | 100mm | 1 No. | 13281.00 |
| 6 | 125 mm | 1 No. | 15055.00 |
| 7 | 150mm | 1 No. | 22870.00 |
| 8 | 200 mm | 1 No. | 27036.00 |
| 9 | 250mm | 1 No. | 45144.00 |
| 10 | 300mm | 1 No. | 75481.00 |
| 11 | 350mm | 1 No. | 115295.00 |
| 12 | 400mm | 1 No. | 157359.00 |
| 13 | 450mm | 1 No. | 263402.00 |
| 14 | 500mm | 1 No. | 269705.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO.

12.13 DI Disk Check Valve

Manufacture, supply and delivery of DI D/F Slanted seat Tilting Disc Swing Check Valve in single piece body and closed eye disc construction. Hemispherical disc with 59 degree inclination for fast open and closing. Corrosion proof and wear resistant(triple offset) disc face & body seat face, both made of fusion bonded Nickel Chromium weld overlay and microfinished. Body and disc of ductile cast iron GGG-40 or equivalent grade, medium free(dry) shafts of stainless steel and bearings of Zinc-free Bronze, Valve should have provision for internal damping unit for reducing the effects of water hammer/surge, if required at later stage. Electrostatic epoxy powder/liquid coating(EP-P) inside and outside color blue RAL 5005 with minimum coating thickness of 150 microns. The EPDM rubber & Epoxy Powder should be approved by W 270.(EP-P it is a resi-coat powder approved for drinking water application, applied through fusion bonding technology process by dipping the shot-blasted casted components heated upto 200deg C). Face to face dimensions as per EN 558-1 series 14 and flange connections as per EN 1092-2/IS

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees | |
|--------|-------------|-------|----------------------------|------------|
| | | | PN 10 | PN 16 |
| 1 | 200mm | 1 No. | 375221.00 | 375221.00 |
| 2 | 250mm | 1 No. | 377681.00 | 377681.00 |
| 3 | 300mm | 1 No. | 379356.00 | 379356.00 |
| 4 | 350mm | 1 No. | 429865.00 | 429865.00 |
| 5 | 400mm | 1 No. | 422533.00 | 422533.00 |
| 6 | 450mm | 1 No. | 578726.00 | 582691.00 |
| 7 | 500mm | 1 No. | 515271.00 | 568949.00 |
| 8 | 600mm | 1 No. | 701474.00 | 713170.00 |
| 9 | 700mm | 1 No. | 1546433.00 | 1582617.00 |
| 10 | 800mm | 1 No. | 1797576.00 | 1866131.00 |
| 11 | 900mm | 1 No. | 2046934.00 | 2149289.00 |
| 12 | 1000mm | 1 No. | 2504435.00 | 2536235.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.14 DI Diaphragm Type Flow Control Valve

12.14.1 DI Altitude Control Valve (PN10/16) with the function to prevent water level in a tank from exceeding a set level. The set level can be changed as per the requirement.

"Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Altitude Control valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270. (EP-P)/WRAS & NSF."

Pilot valve system having Stainless Steel / Brass fittings as per standard parts according to DIN EN 12 266-1 with all the external control tubing of SS 304 / copper / reinforced plastic rated PN16 Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve / speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing.

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 50mm | 1 No. | 97685.00 |
| 2 | 65mm | 1 No. | 100165.00 |
| 3 | 80mm | 1 No. | 110349.00 |
| 4 | 100mm | 1 No. | 137538.00 |
| 5 | 150mm | 1 No. | 181023.00 |
| 6 | 200 mm | 1 No. | 279681.00 |
| 7 | 250mm | 1 No. | 343889.00 |
| 8 | 300mm | 1 No. | 533148.00 |
| 9 | 350mm | 1 No. | 790866.00 |
| 10 | 400mm | 1 No. | 1347660.00 |

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

Note:

- EN** - European standard - Sets standards for rubber materials for seals and diaphragms
- DIN** - German national standard - Sets standards for rubber materials for seals and diaphragms
- KTW** - (Germany) Guideline of the Federal Environmental Agency: Includes a list of approved starting elastomers, test methods and limits for values obtained.
- DVGW** - (German Association for Gas and Water) worksheet W 270- Sets tests for microbial growth enhancement of non-metallic materials In contact with drinking water.
- WRAS** - Water Regulations Advisory Scheme: Two tests related to odour, flavor and taste of water and three tests that examine leachable chemicals and growth of microorganisms.
- NSF** - National Science Foundation (**NSF**) **ANSI 61** (USA): Defines the levels of contaminants and impurities that can be leached from elastomer components.

12.14.2 DI Pressure Reducing Valve (PN10/16) with the function to reduce downstream pressure to set point irrespective of upstream fluctuations. The downstream pressure set point can be changed as per the requirement.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Pressure Reducing valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. 2 pressure gauges for operator-friendly control to determine the actual inlet and outlet pressure connected directly to the valve. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/ WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270.(EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings with spring of SS 304 as per standard parts according to DIN EN 12 266-1 with all the external control tubing of SS 304 / Copper/ reinforced plastic rated PN16, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve/ speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing.

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 50mm | 1 No. | 61905.00 |
| 2 | 65mm | 1 No. | 64385.00 |
| 3 | 80mm | 1 No. | 74570.00 |
| 4 | 100mm | 1 No. | 85818.00 |
| 5 | 150mm | 1 No. | 145420.00 |
| 6 | 200 mm | 1 No. | 202100.00 |
| 7 | 250mm | 1 No. | 266220.00 |
| 8 | 300mm | 1 No. | 455390.00 |
| 9 | 350mm | 1 No. | 674229.00 |
| 10 | 400mm | 1 No. | 1254491.00 |

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

12.14.3 DI Flow rate Limit control Valve (PN10/16) with the function to limit the flow rate to a set point. In case the downstream demand increases beyond the set limit, the valve closes down to bring the flow back to set limit. The valve shall have an orifice plate and the orifice diameter is designed based on the set point as per the requirement and installed downstream of the control valve.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Flow rate Limit Control valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270. (EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings with spring of stainless steel 304 as per standard parts according to DIN EN 12 266-1, orifice plate shall be as per the set point of flow rate and all the external control tubing of SS 304 / Copper/ reinforced plastic rated PN16, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve/ speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing.

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|-------------------------------|
| 1 | 50mm | 1 No. | 78556.00 |
| 2 | 65mm | 1 No. | 81035.00 |
| 3 | 80mm | 1 No. | 94763.00 |
| 4 | 100mm | 1 No. | 102468.00 |
| 5 | 150mm | 1 No. | 180225.00 |
| 6 | 200 mm | 1 No. | 236905.00 |
| 7 | 250mm | 1 No. | 301025.00 |
| 8 | 300mm | 1 No. | 490284.00 |
| 9 | 350mm | 1 No. | 726569.00 |
| 10 | 400mm | 1 No. | 1296294.00 |

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

12.14.4 DI Pressure Sustaining / Relief Valve (PN10/16) with the function to relieve excess pressure in the downstream pressure to set point irrespective of upstream fluctuations. The downstream pressure set point can be changed as per the requirement.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Pressure Sustaining / Relief valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. 2 pressure gauges for operator-friendly control to determine the actual inlet and outlet pressure connected directly to the valve. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/ WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270.(EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings with spring of stainless steel 304 as per standard parts according to DIN EN 12 266-1 with all the external control tubing of SS 304/ Copper/ reinforced plastic rated PN16, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve/ speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing.

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 50mm | 1 No. | 61905.00 |
| 2 | 65mm | 1 No. | 64385.00 |
| 3 | 80mm | 1 No. | 74570.00 |
| 4 | 100mm | 1 No. | 85818.00 |
| 5 | 150mm | 1 No. | 145420.00 |
| 6 | 200 mm | 1 No. | 202100.00 |
| 7 | 250mm | 1 No. | 266220.00 |
| 8 | 300mm | 1 No. | 455390.00 |
| 9 | 350mm | 1 No. | 674229.00 |
| 10 | 400mm | 1 No. | 1254491.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.14.5 DI Pump control Valve (PN10/16) with the function to open / close the pump discharge to the downstream network gradually the start-up / shut-off of a pump to protect the pumping assembly.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Pump Control Valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270.(EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings as per standard parts according to DIN EN 12 266-1 and 3 way NO 24 V AC 50/60 Hz Solenoid, all the external control tubing of SS 304/ Copper/ reinforced plastic rated PN16 with Position indicator, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve/ speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing.

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|-------------------------------|
| 1 | 50mm | 1 No. | 105035.00 |
| 2 | 65mm | 1 No. | 107515.00 |
| 3 | 80mm | 1 No. | 117700.00 |
| 4 | 100mm | 1 No. | 128948.00 |
| 5 | 150mm | 1 No. | 235223.00 |
| 6 | 200 mm | 1 No. | 292169.00 |
| 7 | 250mm | 1 No. | 356288.00 |
| 8 | 300mm | 1 No. | 545546.00 |
| 9 | 350mm | 1 No. | 1236071.00 |
| 10 | 400mm | 1 No. | 1362628.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.14.6 DI Pressure Reducing and Flow Limit Control Valve (PN10/16) with the function to reduce higher upstream pressure into a preset lower downstream pressure and to not allow flow rate in the line to exceed beyond the defined set point. The flow orifice diameter is designed based on the set point as per the design requirement. The set point can be changed to a maximum of +10%.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Pressure Reducing and flow limit control valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. 2 pressure gauges for operator-friendly control to determine the actual inlet and outlet pressure connected directly to the valve. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270.(EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings with spring of stainless steel 304 as per standard parts according to DIN EN 12 266-1 and Stainless steel 316 orifice plate shall be as per the set point of flow rate, all the external control tubing of SS 304 / Copper/ reinforced plastic rated PN16, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve/ speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing.

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 50mm | 1 No. | 109464.00 |
| 2 | 65mm | 1 No. | 111944.00 |
| 3 | 80mm | 1 No. | 122128.00 |
| 4 | 100mm | 1 No. | 133375.00 |
| 5 | 150mm | 1 No. | 211134.00 |
| 6 | 200 mm | 1 No. | 267814.00 |
| 7 | 250mm | 1 No. | 331934.00 |
| 8 | 300mm | 1 No. | 521193.00 |
| 9 | 350mm | 1 No. | 1200646.00 |
| 10 | 400mm | 1 No. | 1327201.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.14.7 DI Altitude Control and Flow Control Valve (PN10/16) with the function to ensure that water in tank does not exceed a certain level and the same time not allow flow rate to exceed set point. The Hydraulic Valve trim connection shall have two metal points, one for Altitude control and Flow-rate control function. The valve shall use an orifice plated on downstream side to limit the flow rate. The set level can be changed to a maximum of +10%.

“Manufacture supply and delivery of DI D/F Diaphragm type own medium controlled Altitude Control and Flow Control Valve with cast body of ductile iron grade GGG-40 or equivalent grade or as per IS 3896-Part-2-1985 customized control cylinder for linear control behaviour or equivalent, performed diaphragm and pull out safe profile sealing ring of EPDM, threaded inserts (CORFIX - to prevent the coating from coming off in the connections area as well as corrosion and incrustations in the control circuit) or equivalent. Flange connection dimensions according to EN 1092, Part 2/ ISO 7005[DIN]/ IS 1538, all parts (Epoxy coating, and diaphragm) in contact with medium are as per KTW and DVGW certified (harmless)/WRAS & NSF approved. The EPDM rubber & Epoxy coating (EP-P) should be approved by W270.(EP-P)/ WRAS & NSF.”

Pilot valve system having Stainless Steel / Brass fittings with spring of SS 304 for altitude pilot as per standard parts according to DIN EN 12 266-1, the stainless steel 316 of orifice plate and dimension of orifice as per the flow rate set point, all the external control tubing of SS 304 / copper / reinforced plastic rated PN16, Tightness to DIN EN 12 266-1, leakage rate A (or) equivalent and the needle valve / speed control device should be provided to vary opening speed of the main diaphragm with self-cleaning filter to avoid possibility of dirt build up inside the control tubing.

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 50mm | 1 No. | 145243.00 |
| 2 | 65mm | 1 No. | 147723.00 |
| 3 | 80mm | 1 No. | 161450.00 |
| 4 | 100mm | 1 No. | 169155.00 |
| 5 | 150mm | 1 No. | 246913.00 |
| 6 | 200 mm | 1 No. | 303594.00 |
| 7 | 250mm | 1 No. | 367713.00 |
| 8 | 300mm | 1 No. | 556971.00 |
| 9 | 350mm | 1 No. | 1236425.00 |
| 10 | 400mm | 1 No. | 1362981.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.15 DI Plunger type flow control Valve

"Manufacturing, supply and delivery of DI D/F Plunger type(Control valve) with one piece body of ductile cast iron of grade GGG-40, all internal parts of stainless steel. Piston guides of bronze welded overlay & micro-finished and bearing bush of zinc free Bronze. Valve/profile sealing seat shall be in the no-flow zone. Double sealing effect between the body and the plunger shall be by Quadring Seal (twist free operation). The valve shall be designed to operate smoothly throughout the specified flow range without cavitation. Corrosion protected medium free bearing in the body by way of double O-ring seal and encapsulated shaft seal. There shall be no obstacles in the main flow passage except the plunger and the attached control cylinders. Plunger shall be by means of stainless steel crank drive mechanism. Face-to-face dimensions EN558-1 basic series 15 and 1.5X DN from DN500 and flange connections as per EN1092-2/ISO 7005[DIN]".

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|-------------------------------|
| 1 | 150mm | 1 No. | 661492.00 |
| 2 | 200mm | 1 No. | 743455.00 |
| 3 | 250mm | 1 No. | 1004380.00 |
| 4 | 300mm | 1 No. | 1148600.00 |
| 5 | 400 mm | 1 No. | 1851818.00 |
| 6 | 450mm | 1 No. | 2475761.00 |
| 7 | 500 mm | 1 No. | 3261892.00 |
| 8 | 600mm | 1 No. | 4286346.00 |
| 9 | 700mm | 1 No. | 5337889.00 |
| 10 | 800mm | 1 No. | 6207504.00 |
| 11 | 900mm | 1 No. | 8187069.00 |
| 12 | 1000mm | 1 No. | 9326363.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.16 DI Surge Control Valve

“Manufacturing, supply and delivery of Surge anticipating Relief valves against power failure surges or pressure waves caused by velocity changes, quick opening relief easily adjustable pressure setting. The valve should remain closed when line pressure is between the set-points of the two pilots. The valve should open initially when line pressure drops below the setting of the low-pressure pilot to anticipate surges associated with a pump stopping. The valve will also continue to react and remain open when the return high-pressure wave is above the setting of the high-pressure pilot or open when inlet pressure exceeds a pre-determined set-point at which time the valve opens quickly. With high speed discharge, with flange dimension to EN 1092-2/ ISO 7005[DIN]. Body and cover in ductile cast iron of Grade GGG 40 or equivalent grade. All internal parts & all cover bolts of austenitic alloy steel and gaskets and seals of EPDM of grade W 270(approved for drinking water) with Electrostatic epoxy powder coating (EP-P) inside and outside color blue RAL 5005 with minimum coating thickness of 250 microns”.

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|----------------------------|
| 1 | 50mm | 1 No. | 92556.00 |
| 2 | 80mm | 1 No. | 101170.00 |
| 3 | 100mm | 1 No. | 126489.00 |
| 4 | 150mm | 1 No. | 179981.00 |
| 5 | 200 mm | 1 No. | 264606.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

12.17 OHT FLOW CONTROL VALVE

Supply and delivery of the following sizes of OHT flow control valve with female BSP threaded ends, (20mm length) with Stainless Steel Body as per ANSI 202 Grade, Plug, Flange – Nylon 66, (with life cycle test certificate from FCRI/NABL accredited lab, Working Pressure 10 KSC, FCRI, Palgaut pressure test and flow test to be furnished) Triangular notch type flow control path with opening reference scale arrangements for flow notch and Upstream & Downstream pressure checking spring loaded mouth arrangements.

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|---|------|----------------------------|
| a. | 40mm (1 lpm to 400lpm adjustable type arrangements) | Each | 4927.00 |
| b | 100mm (20 lpm to 2000 lpm adjustable type arrangements) | Each | 17850.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

13.0 SALT GLAZED STONEWARE PIPE AS PER IS 651/2007 of 600MM length

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees | |
|--------|-------------|------|-------------------------------|-----------|
| | | | SP1 Class | SP2 Class |
| 1 | 100mm | Each | 101.00 | 110.00 |
| 2 | 150mm | Each | 174.00 | 191.00 |
| 3 | 200mm | Each | 266.00 | 291.00 |
| 4 | 250mm | Each | 433.00 | 471.00 |
| 5 | 300mm | Each | 678.00 | 737.00 |

13.1 SALT GLAZED STONEWARE PIPE AS PER IS 651/2007 of 1000MM length with Rubber Gasket

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees | |
|--------|-------------|------|-------------------------------|-----------|
| | | | SP1 Class | SP2 Class |
| 1 | 150mm | Each | 420.00 | 480.00 |
| 2 | 200mm | Each | 630.00 | 687.00 |
| 3 | 250mm | Each | 1180.00 | 1284.00 |

13.2 SALT GLAZED STONEWARE PIPE AS PER IS 651/2007 of 1200MM length with Rubber Gasket

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees | |
|--------|-------------|------|-------------------------------|-----------|
| | | | SP1 Class | SP2 Class |
| 1 | 150mm | Each | 531.00 | 580.00 |
| 2 | 200mm | Each | 757.00 | 825.00 |
| 3 | 250mm | Each | 1430.00 | 1559.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges to stockyard anywhere in Tamilnadu.
 - 2) Unloading, stacking at stock yard and Conveyance from stock yard to site are extra.
 - 3) GST extra applicable as per GO

14.0 SULPHATE RESISTANT CEMENT AS PER IS 12330/1988

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|--|------|-------------------------------|
| 1 | Sulphate Resistant Cement as per IS 12330/1988 and as amended from time to time. | MT | 5625.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

15.0 FIBER REINFORCED CONCRETE FRAME AND COVER AS PER IS 12592/2002, PART 1 & 2

| SI.No. | Description | Rate for 2018-19 in Rupees | |
|--------|--|-------------------------------|------------------|
| | | Heavy duty | Extra Heavy duty |
| | Supply and delivery of following sizes of FRC Manhole Covers / Frames to stores on as per IS 12592:2002 to its latest revision with reinforcement details for covers and frames. | | |
| 1 | 450mm dia FRC manhole cover to suit 450 mm clear opening manhole frame | 727.00 | 799.00 |
| 2 | 450mm dia FRC manhole frame to have clear opening of 450mm dia to suit 450mm dia FRC Cover | 908.00 | 1000.00 |
| 3 | 600mm dia FRC manhole cover to suit 600 mm clear opening manhole frame | 937.00 | 1030.00 |
| 4 | 600mm dia FRC manhole frame to have clear opening of 600mm dia to suit 600mm dia FRC Cover | 1338.00 | 1472.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

16.0 WATER METER CONFORMING TO ISO 4064 & DIRT BOX STRAINER (NON DOMESTIC PURPOSE)

Supply and delivery of Woltman model with removal mechanism water meters conforming to ISO 4064 part I, II,III class B or IS 779 and IS 2373 with life cycle test certificate from FCRI/ NABL accredited lab. The water meters shall have magnetic drivers or mechanical drivers and shall be versatile for installation in any position . The meters shall be hydrodynamically, hydrostatically balanced. The runner, runner chamber, pointers of the meter shall be as per ISO 4064 class B specification. Dry dial excavated counter housing fully protected against flooding ensuring easy reading in all climates.

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees | | |
|--------|-------------|------|----------------------------|-----------|------------------|
| | | | Water meter | Dirt Box | Erection Charges |
| 1 | 50mm | Each | 8805.00 | 2751.00 | 2686.00 |
| 2 | 80mm | Each | 11645.00 | 4456.00 | 3350.00 |
| 3 | 100mm | Each | 14852.00 | 5464.00 | 5215.00 |
| 4 | 150mm | Each | 24381.00 | 9085.00 | 6133.00 |
| 5 | 200mm | Each | 27038.00 | 10986.00 | 7641.00 |
| 6 | 250mm | Each | 60491.00 | 23613.00 | 8663.00 |
| 7 | 300mm | Each | 103415.00 | 42064.00 | 9281.00 |
| 8 | 400mm | Each | 174356.00 | 70019.00 | 9450.00 |
| 9 | 500mm | Each | 202907.00 | 101845.00 | 9471.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO
 - 3) Erection charges includes earth work excavation,labour charges, cutting and threading, conveyance,welding and hire charges for tools and plants ets., complete.

16.1 ORIFICE TYPE ELECTRONIC WATER METER (Deleted)

16.2 FULL BORE ELECTROMAGNETIC FLOW METER

Electromagnetic Flow Meter conforming to ISO 17025 Standard shall be a velocity sensing Electromagnetic type, microprocessor based signal converter, sealed housing, flanged tube meter for 1.0 Mpa working pressure, manufactured to highest standard available for mag-meters, equipped with minimum six digit digital totalizers, reading in units of kiloliters and shall be accurate within 0.5% of Measured value, shall operate within a range of 0.3m/sec to 4 m/sec and be constructed as follows: Meter tube (Sensor) shall be fabricated from stainless steel tube and use class PN10 flat face carbon street flanges in accordance with IS 1538. These flanges shall be welded to the flow tube. The internal and external of the meter tube shall be blasted to near white and lined with hard rubber /Polyurethane/PTFE preferably by SBR or EPDM. Meter tube shall have a constant nominal inside diameter offering no obstruction to the flow. The accuracy should be inclusive of linearity, hysteresis, repeatability, temperature and pressure effects. Coil Housing shall be fabricated from stainless steel/SS304/Die cast Aluminium/Carbon Steel with Anticorrosive paint for corrosion resistance and welded to the tube providing a completely sealed environment for all coils, electrode connections and wiring harness capable of submerged or buried operation. Signal Converter shall be pulsed DC coil

excitation type with auto zeroing. The signal converter shall be remotely mounted away from the meter. The converter shall indicate direction of flow and provide a flow rate indication and a total of flow volume for both forward and reverse directions. The converter shall provide an isolated 4-20 mA output into minimum 500-ohm load and a frequency output of a maximum of 0-10 KHZ and a scaled pulse output. The microprocessor based signal converter shall have a self-diagnostic test mode and a backlit display that continuously displays "Rate of Flow" and "Total Volume." Converter shall be supplied with a programmable low flow drop out and empty pipe zero return. The signal converter housing should be die-cast aluminium with glass window. The converter cum transmitter should be fully programmable from the front facia. The programming should be user friendly, self-prompting menu driven. Flow meter test calibration certificate should be provided with life cycle test certificate from FCRI/NABL accredited lab.

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|-------------|-------|-------------------------------|
| 1 | 10MM | 1 No. | 79790.00 |
| 2 | 25 MM | 1 No. | 72388.00 |
| 3 | 50 MM | 1 No. | 80596.00 |
| 4 | 80 MM | 1 No. | 91396.00 |
| 5 | 100 MM | 1 No. | 97876.00 |
| 6 | 125 MM | 1 No. | 108676.00 |
| 7 | 150MM | 1 No. | 125956.00 |
| 8 | 200MM | 1 No. | 187974.00 |
| 9 | 250MM | 1 No. | 214317.00 |
| 10 | 300 MM | 1 No. | 241849.00 |
| 11 | 350MM | 1 No. | 315789.00 |
| 12 | 400MM | 1 No. | 369844.00 |
| 13 | 450MM | 1 No. | 454737.00 |
| 14 | 500 MM | 1 No. | 494793.00 |
| 15 | 600MM | 1 No. | 571780.00 |
| 16 | 700 MM | 1 No. | 636265.00 |
| 17 | 800MM | 1 No. | 737327.00 |
| 18 | 900 MM | 1 No. | 820014.00 |
| 19 | 1000 MM | 1 No. | 927936.00 |
| 20 | 1200 MM | 1 No. | 1326316.00 |
| 21 | 1400MM | 1 No. | 1642105.00 |
| 22 | 1600MM | 1 No. | 1894737.00 |
| 23 | 1800 MM | 1 No. | 2400000.00 |
| 24 | 2000 MM | 1 No. | 3149997.00 |
| 25 | 2200 MM | 1 No. | 3254997.00 |
| 26 | 2400MM | 1 No. | 3674997.00 |
| 27 | 2600 MM | 1 No. | 4042497.00 |
| 28 | 2800 MM | 1 No. | 4549995.00 |
| 29 | 3000 MM | 1 No. | 4899995.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

17.0 HDPE TANK

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|--|-------|-------------------------------|
| 1 | Supply and delivery and fixing of HDPE tank as per IS 12701 / 1996 including loading, unloading, transportation and labour charges for fixing of the GI pipes and specials for pipe connection works including cutting, threading and fixing charges etc., | | |
| | 200 litres | 1 No. | 1642.00 |
| | 500 litres | 1 No. | 3953.00 |
| | 1000 litres | 1 No. | 7905.00 |
| | 2000 litres | 1 No. | 18480.00 |
| | 5000 litres | 1 No. | 43512.00 |
| | 10000 litres | 1 No. | 92400.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

18.0 MS KIOSK

| SI.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|---|------|-------------------------------|
| 1 | Supply and delivery of MS Kiosk of size 0.75m x 0.45m x 0.75m made up of MS angle of size 50mm x 50mm x 4mm alround covered with 16 gauge MS sheet and kiosk door made up of MS plates of size 25 mm x 3 mm including cutting, welding, grinding, locking arrangements and labour charges etc., | 1 No | 7838.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

19.0 MS LADDER

| SI No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|---|------|-------------------------------|
| 1 | Supply and Delivery and fixing of outside MS Ladder of 45cm clear wide made out of 50 mm x 50mm x 6mm MS angle for sides and steps in 16 mm MS plain rods fixed at 30cm C/C welded jointed etc ., providing with suitable side supports, clamps and locking arrangements provided with two coats of approved enamel paint over one coat of redoxide paint , for providing access to roof top of OHT of suitable inclined length, including bottom anchorage and transportation and as directed by TWAD Board officers. The rate includes concrete bed block in CC 1:2:4 using 20mm HBGS at top and bottom of suitable size with necessary anchor bolts. | | |
| | For OHT Capacities | | |
| a | 1. 10000 litres with - 7.5m staging height | Each | 22695.00 |
| b | 2. 20000 litres with - 7.5m staging height | Each | 22695.00 |
| 2 | Fabrication, supply, delivery and fixing of outside MS Ladder of 45cm clear wide made out of 50 mm x 50mm x 6mm MS angle for both sides and for steps at 30cm C/C welded jointed etc ., for I staging from GL to 1st level brace (weight 4.5kg/m) IIInd and IIIrd staging upto floor slab and IVth staging from floor slab to roof top. Supply, delivery and fixing of 32 mm GI pipes medium for hand rails from I stage to IVth stage. RCC M30 Grade mix for Landing slab 5 nos. at Ground Level- 1No. and above Ground Level - 4Nos. Supply and fixing of 32mm GI pipe medium for hand rails for the Landing slab. Supplying and fixing of MS Base plate of 100mm X 100mm X 6mm thick for fixing Anchore fastener bolt for fixing of hand rails at Landing slab and MS Ladder providing locking arrangements with two coats of approved enamel paint over one coat of red oxide paint as per approved Type Design and as directed by TWAD board officers. | | |
| | For OHT Capacities | | |
| a | 30000 litres capacity at 12.0m staging height | Each | 111227.00 |
| b | 40000 litres capacity at 12.0m staging height | Each | 111227.00 |
| c | 50000 litres capacity at 12.0m staging height | Each | 111227.00 |
| d | 60000 litres capacity at 12.0m staging height | Each | 111227.00 |
| e | 100000 litres capacity at 12.0m staging height | Each | 111227.00 |

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
2) GST extra applicable as per GO

20.0 MS DOOR / WINDOW/VENTILATOR

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|--|-----------------|----------------------------|
| 1 | Supply and Delivery Fabrication of MS doors and windows with outer frame and shutter frame in MS angle of size 40mm x 40mm x 6 mm with MS flat 25mm x 25mm x 6mm and MS sheet of 18 gauge including ventilating arrangements using 20mm square MS rods with locking arrangements including two coats of approved enamel paint over coat of red oxide including cost of angles, plates, sheets, fabrication charges, cost of hold fast and transportation charges etc., complete. | | |
| i | Fully panelled Double leaf - Door | 1.00 x 2.50 m | 6515.00 |
| ii. | Fully panelled Double leaf - Door | 1.00m x 2.10 m | 5682.00 |
| iii. | Fully panelled Double leaf - Door | 1.00m x 2.00 m | 4163.00 |
| iv. | Fully panelled Single leaf - Door | 0.75 m x 2.10 m | 3479.00 |
| v | Fully panelled Single leaf - Door | 0.90 m x 2.00 m | 3714.00 |
| vi. | Fully panelled Single leaf - Door | 0.90 m x 2.10 m | 4114.00 |
| vii | Fully panelled Single leaf - Door | 1.00 m x 2.00 m | 3870.00 |
| viii | Fully panelled Double leaf - Window (without Ventilator) | 1.20 m x 0.90 m | 3086.00 |
| ix | Fully panelled Double leaf - Window (without Ventilator) | 0.60 m x 0.90 m | 2253.00 |
| x | Ventilator | 0.45 m x 0.60 m | 1354.00 |

Note : 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.

2) GST extra applicable as per GO

21. WATER DISINFECTION EQUIPMENT USING SILVER - IONIZATION PROCESS

(DELETED)

21.1 REPLACEMENT ELECTRODE WATER DISINFECTION EQUIPMENT USING SILVER -IONIZATION

(DELETED)

21.2 ELECTRO CHLORINATOR BASED ON COMMON SALT

| Sl.No. | Capacity in litres per day | Rate for 2018-19 in Rupees. |
|--------|----------------------------|-----------------------------|
| 1 | 50000 | 47301.00 |
| 2 | 100000 | 59901.00 |
| 3 | 150000 | 81001.00 |
| 4 | 200000 | 92500.00 |
| 5 | 250000 | 112001.00 |
| 6 | 300000 | 124000.00 |
| 7 | 350000 | 139147.00 |
| 8 | 400000 | 146000.00 |
| 9 | 450000 | 155000.00 |
| 10 | 500000 | 156500.00 |
| 11 | 1000000 | 383900.00 |
| 12 | 2000000 | 563600.00 |
| 13 | 3000000 | 740000.00 |
| 14 | 4000000 | 910000.00 |
| 15 | 5000000 | 1014286.00 |
| 16 | 6000000 | 1317142.00 |
| 17 | 7000000 | 1419047.00 |
| 18 | 8000000 | 1566999.00 |
| 19 | 9000000 | 1739999.00 |
| 20 | 10000000 | 1972999.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

22.0 PROVIDING EPOXY COATING TO REINFORCEMENT STEEL BARS

| SI No. | Description | unit | Rate for 2018-19 in Rupees. |
|--------|---|------|-----------------------------|
| | Providing Fusion Bonded Epoxy coating not less than 175microns thickness and upto 300 microns to reinforcement of all diameters as per IS 13620/1993 including testing of coating at plant.The cost is inclusive of cost on account of careful handling, PVC coated binding wires, touchup material supplied by coating agency, repair work, loading, unloading and strengthening of bent rods etc., complete as per specification and as directed by the Engineer in charge. | | |
| a. | for 8mm to 16mm | MT | 13480.00 |
| b. | for 20mm to 32mm | MT | 10220.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

23.0 MECHANICAL JOINT COLLARS

| SI No. | Description | Unit | Rate for 2018-19 in Rupees. |
|--------|------------------------------------|------|-----------------------------|
| | Supply and Delivery of MJ Collars. | | |
| 1 | 100mm | Each | 2372.00 |
| 2 | 150mm | Each | 3773.00 |
| 3 | 200mm | Each | 4925.00 |
| 4 | 250mm | Each | 6855.00 |
| 5 | 300mm | Each | 8899.00 |
| 6 | 350mm | Each | 12705.00 |
| 7 | 400mm | Each | 15134.00 |
| 8 | 450mm | Each | 17505.00 |
| 9 | 500mm | Each | 22347.00 |
| 10 | 600mm | Each | 28516.00 |

- Note :
- 1) The above rates are basic rates inclusive of transportation charges anywhere in Tamilnadu.
 - 2) GST extra applicable as per GO

24.0 STAINLESS STEEL CLAMP

Supply and delivery of Leak Arresting Flexible SS Clamps of Wrap Around Single Section type upto 500 mm diameter and Maxi Range double section type beyond 500 mm OD of all rigid pipe sections. The Clamps made of stainless steel SS304 metallic body of 0.8 to 1.0mm maximum thickness pasted with Waffle gaskets of Natural / Nitrile / EPDM grade (BS EN681-1) and fitted with self stabilizing Finger type clamps of 200 mm length SG grade malleable cast iron duly powder coated (BS 2789 grade 400/12) and connected through fasteners of EN8 material with Zinc Coating (BS 970). Suitable width of the clamps to be decided by the engineer incharge at site depending on the nature of pipe crack.

| SI No. | Description | Unit | Rate for 2018-19 in Rupees. | | | | |
|----------|------------------------------|------|-----------------------------|--------------|--------------|--------------|---------------|
| | | | 400 MM Width | 600 MM Width | 800 MM Width | 1000MM Width | 1200 MM Width |
| I | Suitable for AC Pipes | | | | | | |
| | Class 10 | | | | | | |
| 1 | 100NB | 1No. | 4830 | 7935 | 10580 | 13230 | 15870 |
| 2 | 150NB | 1No. | 5880 | 9660 | 12880 | 16100 | 19320 |
| 3 | 200NB | 1No. | 6825 | 11215 | 14950 | 18690 | 22430 |
| 4 | 250NB | 1No. | 7718 | 12680 | 16910 | 21140 | 25360 |
| 5 | 300NB | 1No. | 8295 | 13630 | 18170 | 22720 | 27260 |
| 6 | 350NB | 1No. | 9135 | 15010 | 20010 | 29020 | 30020 |
| 7 | 400NB | 1No. | 9818 | 16130 | 21510 | 26890 | 32260 |
| 8 | 450NB | 1No. | 10920 | 17940 | 23920 | 29900 | 35880 |
| 9 | 500NB | 1No. | 12930 | 19400 | 25860 | 32330 | 38800 |
| | Class 15 | | | | | | |
| 1 | 100NB | 1No. | 5040 | 8280 | 11040 | 13800 | 16560 |
| 2 | 150NB | 1No. | 6090 | 10010 | 13340 | 16680 | 20010 |
| 3 | 200NB | 1No. | 7088 | 11650 | 15530 | 19410 | 23290 |
| 4 | 250NB | 1No. | 7928 | 13030 | 17370 | 21710 | 26050 |
| 5 | 300NB | 1No. | 8558 | 14060 | 18750 | 23440 | 28120 |
| 6 | 350NB | 1No. | 9345 | 15360 | 20470 | 25590 | 30710 |
| 7 | 400NB | 1No. | 10028 | 16480 | 21970 | 27460 | 32950 |
| 8 | 450NB | 1No. | 11235 | 18460 | 24610 | 30770 | 36920 |
| 9 | 500NB | 1No. | 13230 | 19850 | 26460 | 33100 | 39700 |
| | Class 20 | | | | | | |
| 1 | 100NB | 1No. | 5355 | 8800 | 11730 | 14670 | 17600 |
| 2 | 150NB | 1No. | 6300 | 10350 | 13800 | 17250 | 20700 |
| 3 | 200NB | 1No. | 7350 | 12080 | 16100 | 20130 | 24150 |
| 4 | 250NB | 1No. | 8190 | 13460 | 17940 | 22430 | 26910 |
| 5 | 300NB | 1No. | 8925 | 14670 | 19550 | 24440 | 29330 |
| 6 | 350NB | 1No. | 9555 | 15700 | 20930 | 26170 | 31400 |

| SI No. | Description | Unit | Rate for 2018-19 in Rupees. | | | | |
|--|-------------|------|-----------------------------|--------------|--------------|--------------|---------------|
| | | | 400 MM Width | 600 MM Width | 800 MM Width | 1000MM Width | 1200 MM Width |
| 7 | 400NB | 1No. | 10343 | 17000 | 22670 | 28320 | 33990 |
| 8 | 450NB | 1No. | 11550 | 18980 | 23300 | 31630 | 37950 |
| 9 | 500NB | 1No. | 13450 | 20200 | 26900 | 33630 | 40350 |
| 10 | 600NB | 1No. | - | 27500 | 36700 | 45850 | 55000 |
| 11 | 700NB | 1No. | - | 28500 | 38000 | 47500 | 76000 |
| II Suitable for Cast Iron or Ductile Iron Pipes | | | | | | | |
| a Suitable for MS/CI/DI Pipes - Single section SS Clamp | | | | | | | |
| 1 | 4" Dia | 1No. | 4620 | 7590 | 10120 | 12650 | 15180 |
| 2 | 6" Dia | 1No. | 5460 | 8970 | 11960 | 14950 | 17940 |
| 3 | 8" Dia | 1No. | 6458 | 10610 | 14150 | 17690 | 21220 |
| 4 | 10" Dia | 1No. | 7455 | 12250 | 16330 | 20420 | 24500 |
| 5 | 12" Dia | 1No. | 7980 | 13110 | 17480 | 21850 | 26220 |
| 6 | 14" Dia | 1No. | 8820 | 14490 | 19320 | 24150 | 28980 |
| 7 | 16" Dia | 1No. | 9398 | 15440 | 20590 | 25740 | 30880 |
| 8 | 18" Dia | 1No. | 10238 | 16820 | 22430 | 28040 | 33640 |
| 9 | 20" Dia | 1No. | 11235 | 18460 | 24610 | 30770 | 36920 |
| b Suitable for MS/CI/DI Pipes - Double section SS Clamp | | | | | | | |
| 1 | 550 NB | 1No. | - | 21840 | 33120 | 41400 | 49680 |
| 2 | 900 NB | 1No. | - | 26220 | 34960 | 43700 | 52440 |
| 3 | 650 NB | 1No. | - | 27140 | 36230 | 45260 | 54280 |
| 4 | 700 NB | 1No. | - | 28520 | 38070 | 47560 | 57040 |
| 5 | 750 NB | 1No. | - | 29440 | 39280 | 49110 | 58880 |
| 6 | 800 NB | 1No. | - | 30480 | 40710 | 50830 | 60950 |
| 7 | 850 NB | 1No. | - | 37950 | 50600 | 63250 | 75900 |
| 8 | 900 NB | 1No. | - | 39100 | 52160 | 65210 | 78200 |
| 9 | 1000 NB | 1No. | - | 42780 | 57040 | 71300 | 85560 |
| 10 | 1100 NB | 1No. | - | 51750 | 69000 | 86250 | 103500 |
| 11 | 1200 NB | 1No. | - | 57500 | 76710 | 95860 | 115000 |
| III Suitable for PSC Pipes | | | | | | | |
| a PSC Pipes - Wrap around single section | | | | | | | |
| 1 | 300 NB | 1No. | 9240 | 15180 | 20240 | 25300 | 30360 |
| 2 | 350 NB | 1No. | 10080 | 16560 | 22080 | 27600 | 33120 |
| 3 | 400 NB | 1No. | 10920 | 17940 | 23920 | 29900 | 35880 |
| 4 | 450 NB | 1No. | 11655 | 19150 | 25530 | 31920 | 38300 |
| 5 | 500 NB | 1No. | 12600 | 20700 | 27600 | 34500 | 41400 |

| SI No. | Description | Unit | Rate for 2018-19 in Rupees. | | | | |
|---|-------------|------|-----------------------------|--------------|--------------|--------------|---------------|
| | | | 400 MM Width | 600 MM Width | 800 MM Width | 1000MM Width | 1200 MM Width |
| b PSC Pipes - Double section SS Clamp | | | | | | | |
| 1 | 600 NB | 1No. | - | 28520 | 38070 | 47560 | 57040 |
| 2 | 700 NB | 1No. | - | 29440 | 39280 | 49110 | 58880 |
| 3 | 800 NB | 1No. | - | 33580 | 44850 | 56010 | 67160 |
| 4 | 900 NB | 1No. | - | - | 58650 | 73320 | 87930 |
| 5 | 1000 NB | 1No. | - | - | 64400 | 80500 | 96600 |
| 6 | 1100 NB | 1No. | - | - | 71300 | 89130 | 106950 |
| 7 | 1200 NB | 1No. | - | - | 80500 | 100630 | 120750 |
| c PSC Pipes - Maxi Range Triple section SS Clamp | | | | | | | |
| 1 | 1300 NB | 1No. | - | - | 96600 | 120750 | 144900 |
| 2 | 1400 NB | 1No. | - | - | 110000 | 137500 | 165000 |
| 3 | 1500 NB | 1No. | - | - | 124000 | 155000 | 186000 |
| IV Suitable for HDPE Pipes | | | | | | | |
| a Wrap around single section SS Clamp | | | | | | | |
| 1 | 110mmOD | 1No. | 4515 | 7420 | 9900 | 12380 | 14850 |
| 2 | 140mmOD | 1No. | 4935 | 8110 | 10820 | 13530 | 16230 |
| 3 | 160mmOD | 1No. | 5250 | 8690 | 11500 | 14380 | 17380 |
| 4 | 180mmOD | 1No. | 5775 | 9490 | 12600 | 15830 | 18890 |
| 5 | 200mmOD | 1No. | 6300 | 10350 | 13800 | 17250 | 20700 |
| 6 | 225mmOD | 1No. | 6825 | 11220 | 14960 | 18700 | 22440 |
| 7 | 250mmOD | 1No. | 7140 | 11730 | 15640 | 19550 | 23460 |
| 8 | 280mmOD | 1No. | 7613 | 12510 | 16680 | 20850 | 25020 |
| 9 | 315mmOD | 1No. | 7875 | 12940 | 17260 | 21575 | 25880 |
| 10 | 355mmOD | 1No. | 8400 | 13800 | 18400 | 23000 | 27600 |
| 11 | 400mmOD | 1No. | 8925 | 14670 | 19560 | 24450 | 29340 |
| 12 | 450mmOD | 1No. | 9975 | 16390 | 21860 | 27330 | 32780 |
| 13 | 500mmOD | 1No. | 10815 | 17770 | 23700 | 29630 | 35540 |
| b Maxi Range Double section SS Clamp | | | | | | | |
| 1 | 566mmOD | 1No. | 15120 | 26340 | 35120 | 43900 | 52680 |
| 2 | 1000 mm OD | 1No. | - | - | 60000 | 75000 | 90000 |

- Note :
- 1) The above rates are basic rates
 - 2) Transportation charges extra
 - 3) GST extra applicable as per GO

III (B) RATES FOR PUMP SETS

For individual specifications for various items regarding pump sets & Electrical Equipments, the specifications already given in the Manual for Pump sets should be followed.

1.0 CENTRIFUGAL MONOBLOC PUMPSET AS PER IS 9079/1989 WITHOUT PANEL BOARD THREE PHASE

Supply and delivery of Electric Monoset centrifugal pump conforming to IS 9079:2002 as amended from time to time, with CI FG 200 Casing , hydraulically and dynamically balanced Bronze grade LTB-2 impeller, impeller ring and casing ring, stainless steel shaft capable of discharging required quantity of water against a total head noted below due to all causes. Pump shall of BEE 3 Star Rated and capable of discharging the specified quantity at the head noted at the minimum NPSH at site conditions. The shut off head shall be atleast 25% over and above the head at duty point. The pump shall be suitable for operation in AC three phase , 415 V+/- 10% , 50 Hz +/- 5%. Squirrel cage induction motor for continuous operation. The speed of the Pump and Motor shall be not less than 2700 to 2900 RPM respectively.

| Sl.No. | Duty lpmxm | Unit | Rate for 2018-19 in Rupees |
|--------|---------------|------|-------------------------------|
| 1 | 100x20 | 1 No | 10519 |
| 2 | 150x20 | 1 No | 15498 |
| 3 | 200x20 | 1 No | 16104 |
| 4 | 250x20 | 1 No | 17824 |
| 5 | 300x20 | 1 No | 18432 |
| 6 | 350x20 | 1 No | 18432 |
| 7 | 400x20 | 1 No | 18432 |
| 8 | 450x20 | 1 No | 18432 |
| 9 | 500x20 | 1 No | 21378 |
| 10 | 700x20 | 1 No | 23030 |
| 11 | 50x35 | 1 No | 16726 |
| 12 | 100x35 | 1 No | 19008 |
| 13 | 150x35 | 1 No | 22989 |
| 14 | 200x35 | 1 No | 25881 |
| 15 | 250x35 | 1 No | 29082 |
| 16 | 300x35 | 1 No | 29082 |
| 17 | 350x35 | 1 No | 29082 |
| 18 | 400x35 | 1 No | 29176 |
| 19 | 450x35 | 1 No | 29176 |
| 20 | 500x35 | 1 No | 29176 |
| 21 | 50x50 | 1 No | 25879 |
| 22 | 100x50 | 1 No | 29082 |
| 23 | 150x50 | 1 No | 29082 |
| 24 | 200x50 | 1 No | 31096 |
| 25 | 250x50 | 1 No | 31096 |
| 26 | 300x50 | 1 No | 31096 |

- Note:
- 1) The above rates are basic rates only.
 - 2) GST extra applicable as per GO
 - 3) Duty of the Pumpset is the criteria for the rates.

2.0. SINGLE PHASE SUBMERSIBLE PUMPSET AS PER IS 8034/2002 WITHOUT PANEL BOARD

Supply and delivery of clear water vertical wet type submersible pump conforming to IS 8034/2002 and as amended thereafter and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/diffuser with ISI mark. The pump shall be directly coupled to a continuous rated two pole suitable wet type vertical squirrel cage induction motor suitable for operation in AC single phase 230 V+/- 10 %, 50HZ+/- 5%

| SI.No. | Duty lpmxm | Unit | Rate for 2018-19 in Rupees |
|--------|---------------|------|-------------------------------|
| 1 | 15x40 | 1 No | 17532 |
| 2 | 15x50 | 1 No | 17532 |
| 3 | 15x60 | 1 No | 18229 |
| 4 | 15x70 | 1 No | 21063 |
| 5 | 15x80 | 1 No | 21063 |
| 6 | 15x90 | 1 No | 21063 |
| 7 | 15x100 | 1 No | 24029 |
| 8 | 15x125 | 1 No | 27298 |
| 9 | 15X150 | 1 No | 29387 |
| 10 | 20x40 | 1 No | 18229 |
| 11 | 20x50 | 1 No | 18229 |
| 12 | 20x60 | 1 No | 18229 |
| 13 | 20x70 | 1 No | 21063 |
| 14 | 20x80 | 1 No | 21063 |
| 15 | 20x90 | 1 No | 21453 |
| 16 | 20x100 | 1 No | 25584 |
| 17 | 20X125 | 1 No | 27298 |
| 18 | 20X150 | 1 No | 29216 |

- Note:
- 1) The above rates are basic rates only.
 - 2) GST extra applicable as per GO.
 - 3) Duty of the Pumpset is the criteria for the rates.

3.0. THREE PHASE SUBMERSIBLE PUMPSET SUITABLE FOR 100MM DIA BOREWELL AS PER IS 8034/2002 WITHOUT PANEL BOARD

Supply and delivery of clear water vertical wet type submersible pump suitable for 100mm dia borewell conforming to IS 8034/2002 as amended thereafter and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/diffuser with ISI mark. The pump shall be directly coupled to a continuous rated two pole suitable wet type vertical squirrel cage induction motor as per IS 9283 /1995 and as amended there after, suitable for operation in AC three phase 415 V+/- 10 %, 50 HZ +/- 5 %

| Sl.No. | Duty lpmxm | Unit | Rate for 2018-19 in Rupees |
|--------|---------------|------|-------------------------------|
| 1 | 30x40 | 1 No | 17850 |
| 2 | 30x50 | 1 No | 17955 |
| 3 | 30x60 | 1 No | 18795 |
| 4 | 30x70 | 1 No | 19845 |
| 5 | 30x80 | 1 No | 22680 |
| 6 | 30x90 | 1 No | 24675 |
| 7 | 30x100 | 1 No | 24675 |
| 8 | 30x125 | 1 No | 27090 |
| 9 | 40x40 | 1 No | 17745 |
| 10 | 40x50 | 1 No | 18690 |
| 11 | 40x60 | 1 No | 18690 |
| 12 | 40x70 | 1 No | 24360 |
| 13 | 40x80 | 1 No | 25410 |
| 14 | 40x90 | 1 No | 27405 |
| 15 | 40x100 | 1 No | 27405 |

- Note:
- 1) The above rates are basic rates only.
 - 2) GST extra applicable as per GO.
 - 3) Duty of the Pumpset is the criteria for the rates.

3.1. THREE PHASE SUBMERSIBLE PUMPSET SUITABLE FOR 150MM DIA BOREWELL AS PER IS 8034/2002 WITHOUT PANEL BOARD

Supply and delivery of clear water vertical wet type submersible pumpset suitable for 150mm dia borewell conforming to IS 8034/2002 as amended thereafter and BEE 3 Star Rated capable of discharging noted LPM against head of water column due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze or Cast SS impeller, brass screws and CI FG 200 grade pump bowl/diffuser with ISI mark. The pump shall be directly coupled to a continuous rated two pole suitable wet type vertical squirrel cage induction motor as per IS 9283 /1995 as amended there after, suitable for operation in AC three phase 415 V+/-10%, 50HZ +/- 5 %

| Sl.No. | Duty lpm x m | Unit | Rate for 2018-19 in Rupees |
|--------|-----------------|------|----------------------------------|
| 1 | 50x40 | 1 No | 25007 |
| 2 | 50x50 | 1 No | 27556 |
| 3 | 50x60 | 1 No | 28910 |
| 4 | 50x75 | 1 No | 30821 |
| 5 | 50x100 | 1 No | 40271 |
| 6 | 50x125 | 1 No | 40311 |
| 7 | 50x175 | 1 No | 51827 |
| 8 | 50x200 | 1 No | 56729 |
| 9 | 50x225 | 1 No | 65415 |
| 10 | 50x250 | 1 No | 73916 |
| 11 | 50x275 | 1 No | 84233 |
| 12 | 75x40 | 1 No | 26699 |
| 13 | 75x50 | 1 No | 27556 |
| 14 | 75x60 | 1 No | 28910 |
| 15 | 75x75 | 1 No | 32967 |
| 16 | 75x100 | 1 No | 40271 |
| 17 | 75x125 | 1 No | 47041 |
| 18 | 75x150 | 1 No | 50952 |
| 19 | 75x175 | 1 No | 50952 |
| 20 | 75x200 | 1 No | 55724 |
| 21 | 75x225 | 1 No | 73785 |
| 22 | 75x250 | 1 No | 77153 |
| 23 | 75x275 | 1 No | 84233 |
| 24 | 100x30 | 1 No | 25007 |

| Sl.No. | Duty lpm x m | Unit | Rate for 2018-19 in Rupees |
|---------------|-------------------------|-------------|---|
| 25 | 100x40 | 1 No | 26699 |
| 26 | 100x50 | 1 No | 29193 |
| 27 | 100x60 | 1 No | 30821 |
| 28 | 100x75 | 1 No | 36341 |
| 29 | 100x100 | 1 No | 42974 |
| 30 | 100x125 | 1 No | 49368 |
| 31 | 100x175 | 1 No | 49368 |
| 32 | 100x200 | 1 No | 53881 |
| 33 | 100x225 | 1 No | 70173 |
| 34 | 100x250 | 1 No | 79689 |
| 35 | 125x25 | 1 No | 25248 |
| 36 | 125x40 | 1 No | 26699 |
| 37 | 125x50 | 1 No | 29012 |
| 38 | 125x60 | 1 No | 32099 |
| 39 | 125x75 | 1 No | 35637 |
| 40 | 125x100 | 1 No | 41766 |
| 41 | 125x125 | 1 No | 49386 |
| 42 | 125x200 | 1 No | 65062 |
| 43 | 125x225 | 1 No | 71902 |
| 44 | 150x25 | 1 No | 25248 |
| 45 | 150x40 | 1 No | 26699 |
| 46 | 150x50 | 1 No | 27556 |
| 47 | 150x60 | 1 No | 32099 |
| 48 | 150x75 | 1 No | 35637 |
| 49 | 150x100 | 1 No | 44847 |
| 50 | 150x125 | 1 No | 46336 |
| 51 | 175x40 | 1 No | 26699 |
| 52 | 175x50 | 1 No | 31918 |
| 53 | 175x60 | 1 No | 32826 |
| 54 | 175x75 | 1 No | 32826 |
| 55 | 175x100 | 1 No | 41011 |
| 56 | 200x25 | 1 No | 25248 |
| 57 | 200x40 | 1 No | 26699 |
| 58 | 200x50 | 1 No | 32826 |

| Sl.No. | Duty lpm x m | Unit | Rate for 2018-19 in Rupees |
|--------|-----------------|------|----------------------------------|
| 59 | 200x60 | 1 No | 36341 |
| 60 | 200x75 | 1 No | 36341 |
| 61 | 200x100 | 1 No | 48834 |
| 62 | 200x125 | 1 No | 55247 |
| 63 | 250x40 | 1 No | 26699 |
| 64 | 250x50 | 1 No | 32826 |
| 65 | 250x60 | 1 No | 35728 |
| 66 | 250x75 | 1 No | 43508 |
| 67 | 250x100 | 1 No | 54347 |
| 68 | 250x125 | 1 No | 61913 |
| 69 | 300x40 | 1 No | 30884 |
| 70 | 300x50 | 1 No | 36026 |
| 71 | 300x60 | 1 No | 46526 |
| 72 | 300x75 | 1 No | 50493 |
| 73 | 300x100 | 1 No | 57337 |
| 74 | 350x40 | 1 No | 34119 |
| 75 | 350x50 | 1 No | 37962 |
| 76 | 350x60 | 1 No | 48525 |
| 77 | 350x75 | 1 No | 54347 |
| 78 | 350x100 | 1 No | 63200 |
| 79 | 400x40 | 1 No | 41118 |
| 80 | 400x50 | 1 No | 48069 |
| 81 | 400x60 | 1 No | 49979 |
| 82 | 400x75 | 1 No | 62587 |
| 83 | 500x40 | 1 No | 42599 |
| 84 | 500x50 | 1 No | 49979 |
| 85 | 500x75 | 1 No | 66603 |
| 86 | 600x40 | 1 No | 44065 |
| 87 | 600x50 | 1 No | 59383 |
| 88 | 600x75 | 1 No | 68419 |

- Note:
- 1) The above rates are basic rates only.
 - 2) GST extra applicable as per GO.
 - 3) Duty of the Pumpset is the criteria for the rates.

4.0 OPENWELL SUBMERSIBLE PUMPSET AS PER IS 14220/2002 WITHOUT PANEL BOARD

Supply and delivery of Open well Submersible pump set conforming to IS 14220 /2002 and as amended thereafter and BEE 3 Star Rated capable of discharging the following duties due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze mixed type impeller, CI FG 200 grade casing and brass screws and rotor shall be of copper rod as per IS 613/1984 with ISI mark. The pump suitable for installation in sump with 1.1KV grade 3 core suitable copper flat submersible cable to a length of 15m with necessary cable joints. The non-return valve located at the top of the pump in the discharge outlet connection is to be designed with minimum friction. The pump should be directly coupled to 2880 RPM, three phase, 50 Hz (± 5), 415V+6% & 415V-15% squirrel cage induction motor suitable for DOL upto 5 HP , Fully Automatic Air break Star Delta up to 20 HP and Auto Transformer starter for above 20 HP starting and for continuous operation.

| Sl.No. | Duty lpm x m | Unit | Rate for 2018-19 in Rupees |
|--------|-----------------|------|----------------------------------|
| 1 | 50x25 | 1 No | 21732 |
| 2 | 50x40 | 1 No | 21763 |
| 3 | 50x50 | 1 No | 25806 |
| 4 | 50x60 | 1 No | 32276 |
| 5 | 50x75 | 1 No | 46872 |
| 6 | 50x100 | 1 No | 47426 |
| 7 | 50x125 | 1 No | 69722 |
| 8 | 75x25 | 1 No | 21763 |
| 9 | 75x40 | 1 No | 24726 |
| 10 | 75x50 | 1 No | 27647 |
| 11 | 75x60 | 1 No | 32276 |
| 12 | 75x75 | 1 No | 46872 |
| 13 | 75x100 | 1 No | 47429 |
| 14 | 75x125 | 1 No | 65260 |
| 15 | 75x150 | 1 No | 87971 |
| 16 | 100x25 | 1 No | 23523 |
| 17 | 100x40 | 1 No | 27647 |
| 18 | 100x50 | 1 No | 29062 |
| 19 | 100x60 | 1 No | 46873 |
| 20 | 100x75 | 1 No | 47427 |
| 21 | 100x100 | 1 No | 47427 |
| 22 | 100x125 | 1 No | 69827 |

| Sl.No. | Duty lpm x m | Unit | Rate for 2018-19 in Rupees |
|---------------|-------------------------|-------------|---|
| 23 | 125x25 | 1 No | 24716 |
| 24 | 125x40 | 1 No | 29062 |
| 25 | 125x50 | 1 No | 35956 |
| 26 | 125x75 | 1 No | 46873 |
| 27 | 125x100 | 1 No | 47427 |
| 28 | 125x125 | 1 No | 69827 |
| 29 | 150x25 | 1 No | 24716 |
| 30 | 150x40 | 1 No | 29062 |
| 31 | 150x50 | 1 No | 29062 |
| 32 | 150x60 | 1 No | 46872 |
| 33 | 150x75 | 1 No | 46872 |
| 34 | 150x100 | 1 No | 47429 |
| 35 | 150x125 | 1 No | 79418 |
| 36 | 175x25 | 1 No | 24716 |
| 37 | 175x40 | 1 No | 29062 |
| 38 | 175x50 | 1 No | 35956 |
| 39 | 175x60 | 1 No | 46873 |
| 40 | 175x75 | 1 No | 46873 |
| 41 | 175x100 | 1 No | 60440 |
| 42 | 200x25 | 1 No | 24716 |
| 43 | 200x40 | 1 No | 29062 |
| 44 | 200x50 | 1 No | 29062 |
| 45 | 200x60 | 1 No | 46873 |
| 46 | 200x75 | 1 No | 49456 |
| 47 | 200x100 | 1 No | 60440 |
| 48 | 200x125 | 1 No | 93994 |
| 49 | 250x25 | 1 No | 24716 |
| 50 | 250x40 | 1 No | 29062 |
| 51 | 250x50 | 1 No | 35956 |
| 52 | 250x60 | 1 No | 46873 |
| 53 | 250x75 | 1 No | 60440 |
| 54 | 250x100 | 1 No | 64014 |

| Sl.No. | Duty lpm x m | Unit | Rate for 2018-19 in Rupees |
|---------------|-------------------------|-------------|---|
| 55 | 250x125 | 1 No | 83389 |
| 56 | 300x25 | 1 No | 24716 |
| 57 | 300x40 | 1 No | 29062 |
| 58 | 300x50 | 1 No | 35956 |
| 59 | 300x60 | 1 No | 49456 |
| 60 | 300x75 | 1 No | 60440 |
| 61 | 300x100 | 1 No | 64014 |
| 62 | 350x25 | 1 No | 29062 |
| 63 | 350x40 | 1 No | 42226 |
| 64 | 350x50 | 1 No | 42522 |
| 65 | 350x60 | 1 No | 49456 |
| 66 | 350x75 | 1 No | 60440 |
| 67 | 350x100 | 1 No | 64014 |
| 68 | 400x25 | 1 No | 29062 |
| 69 | 400x40 | 1 No | 42394 |
| 70 | 400x50 | 1 No | 42522 |
| 71 | 400x60 | 1 No | 50855 |
| 72 | 400x75 | 1 No | 64014 |
| 73 | 500x25 | 1 No | 29062 |
| 74 | 500x40 | 1 No | 42394 |
| 75 | 500x50 | 1 No | 42522 |
| 76 | 500x75 | 1 No | 64014 |
| 77 | 600x25 | 1 No | 29615 |
| 78 | 600x40 | 1 No | 43331 |
| 79 | 600x50 | 1 No | 51823 |
| 80 | 600x75 | 1 No | 65233 |
| 81 | 700x40 | 1 No | 48431 |
| 82 | 700x60 | 1 No | 65233 |
| 83 | 700x80 | 1 No | 65233 |
| 84 | 700x100 | 1 No | 65233 |
| 85 | 800x40 | 1 No | 48431 |
| 86 | 800x60 | 1 No | 65233 |

| Sl.No. | Duty lpm x m | Unit | Rate for 2018-19 in Rupees |
|--------|-----------------|------|----------------------------------|
| 87 | 800x80 | 1 No | 65233 |
| 88 | 800x100 | 1 No | 65233 |
| 89 | 900x40 | 1 No | 65233 |
| 90 | 900x60 | 1 No | 65233 |
| 91 | 900x80 | 1 No | 65233 |
| 92 | 900x100 | 1 No | 65233 |
| 93 | 1000x40 | 1 No | 77532 |
| 94 | 1000x60 | 1 No | 77532 |
| 95 | 1000x80 | 1 No | 87383 |
| 96 | 1000x100 | 1 No | 140100 |
| 97 | 1250x40 | 1 No | 83518 |
| 98 | 1250x60 | 1 No | 106652 |
| 99 | 1250x80 | 1 No | 155572 |
| 100 | 1250x100 | 1 No | 155572 |
| 101 | 1500x40 | 1 No | 95839 |
| 102 | 1500x60 | 1 No | 137804 |
| 103 | 1500x80 | 1 No | 161055 |
| 104 | 1500x100 | 1 No | 215162 |
| 105 | 2000x40 | 1 No | 119388 |
| 106 | 2000x60 | 1 No | 161055 |
| 107 | 2000x80 | 1 No | 161055 |
| 108 | 2000x100 | 1 No | 161055 |
| 109 | 2500x40 | 1 No | 161055 |
| 110 | 2500x60 | 1 No | 161055 |
| 111 | 2500x80 | 1 No | 161055 |
| 112 | 2500x100 | 1 No | 161055 |

- Note:
- 1) The above rates are basic rates only.
 - 2) GST extra applicable as per GO.
 - 3) Duty of the Pumpset is the criteria for the rates.

5.0.RATES FOR HORIZONTAL SPLIT CASING CENTRIFUGAL PUMP (1500 RPM) conforming to IS 1520

Supply and delivery of Horizontal split casing centrifugal pump conforming to IS 1520 with CI casing and split glands, stainless steel shaft, hydraulically and dynamically balanced bronze impellers capable of discharging required quantity of water against a total head noted below due to all causes and with the accessories such as G.M air release cock, Grease cup, G.I priming funnel, M.S lifting hook, drip water G.I pipe connections, leading to the outside of pump house rubber water deflector, double flap foot valve, G.M strainer including unique tyre type coupling, common M.S fabricated base to mount pump and motor and other standard fittings etc complete. Pump shall be capable of discharging the specified quantity at the head noted at the minimum NPSH at site conditions. The shut off head shall be atleast 25% over and above the head at duty point. The pump shall be suitable for operation in AC three phase , 415 V , 50 Hz , 1500 RPM.

| SI.No. | Capacity in LPM | Rate for 2018-19 in Rupees | | | | | | | | | | | | | Rs. in Lakhs. | |
|--------|-----------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|--|---------------|--|
| | | Head in Metres | | | | | | | | | | | Rs. in Lakhs. | | | |
| | | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 70 | 80 | 90 | | | | |
| 1 | 1500 | 3.05 | 2.91 | 3.54 | 3.59 | 3.62 | 4.36 | 4.62 | 4.63 | 4.93 | 4.93 | 5.49 | | | | |
| 2 | 2500 | 3.05 | 3.05 | 3.63 | 3.74 | 4.46 | 4.46 | 4.69 | 4.96 | 5.54 | 5.74 | 5.74 | | | | |
| 3 | 3000 | 3.05 | 3.05 | 3.82 | 3.87 | 4.69 | 4.69 | 4.46 | 4.96 | 5.92 | 5.92 | 5.97 | | | | |
| 4 | 3500 | 3.05 | 3.05 | 3.82 | 3.87 | 4.69 | 5.36 | 5.78 | 6.08 | 6.32 | 6.32 | 6.32 | | | | |
| 5 | 4000 | 3.53 | 3.53 | 3.87 | 3.87 | 4.75 | 5.42 | 6.03 | 6.18 | 6.32 | 6.32 | 6.32 | | | | |
| 6 | 5000 | 3.86 | 3.86 | 3.96 | 4.08 | 5.52 | 5.75 | 6.29 | 6.51 | 6.71 | 6.75 | 6.76 | | | | |
| 7 | 6000 | 3.86 | 3.86 | 5.35 | 5.47 | 5.80 | 6.20 | 6.57 | 7.30 | 7.64 | 7.78 | 8.04 | | | | |
| 8 | 7000 | 4.93 | 5.24 | 5.42 | 5.63 | 6.07 | 6.32 | 6.79 | 7.45 | 7.68 | 8.58 | 8.75 | | | | |
| 9 | 8000 | 5.07 | 5.24 | 5.47 | 6.03 | 6.32 | 6.65 | 6.79 | 7.12 | 11.11 | 11.38 | 11.94 | | | | |
| 10 | 9000 | 5.07 | 5.42 | 5.61 | 6.32 | 6.51 | 6.65 | 6.79 | 6.89 | 11.64 | 12.75 | 13.73 | | | | |
| 11 | 10000 | 5.07 | 5.42 | 5.68 | 6.35 | 6.67 | 6.94 | 6.94 | 12.03 | 15.38 | 16.03 | 16.13 | | | | |
| 12 | 15000 | 6.24 | 6.42 | 6.26 | 7.71 | 8.09 | 8.52 | 10.03 | 13.30 | 16.01 | 16.01 | 16.13 | | | | |
| 13 | 20000 | 6.85 | 6.98 | 6.99 | 13.55 | 13.92 | 15.28 | 17.44 | 17.44 | 17.81 | 17.91 | 18.40 | | | | |
| 14 | 25000 | 16.41 | 16.67 | 17.14 | 17.38 | 17.82 | 17.84 | 17.84 | 17.84 | 18.40 | 18.79 | 18.73 | | | | |
| 15 | 30000 | 17.75 | 18.42 | 19.29 | 19.58 | 19.76 | 20.33 | 20.26 | 23.14 | 26.12 | 27.07 | 27.83 | | | | |

Note: 1) The above rates are basic rates inclusive of MS base plate, flexible tyre coupling and foundation bolts.

2) GST extra applicable as per GO

3) Efficiency may be taken from universal curve for calculation of motor HP, otherwise manufacturers may be consulted for efficiency curve.

4) NPSH requirement should be assessed and sump should be designed accordingly.

6.0. HORIZONTAL SQUIRREL CAGE MOTOR 1500 RPM

AC three Phase /415 V/ Horizontal SPDP 4 Pole Squirrel cage Induction motor for HSC Centrifugal pumps

Supply and delivery of AC three Phase 4 pole Horizontal squirrel cage Induction motor conforming to IS 325/1996 and as amended thereafter with Class F insulation to suit the speed of pump and suitable for operation with continuous S1 rated, 415V +/- 10 %, 50 HZ +/- 5% supply , TEFC (upto 20 HP), SPDP (above 20 HP). The motor offered should be of energy efficient motors.

| Sl.No | KW | HP | Rate for 2018-19 in Rupees |
|-------|------|------|-------------------------------|
| 1 | 9.3 | 12.5 | 86333 |
| 2 | 11 | 15 | 91653 |
| 3 | 15 | 20 | 107949 |
| 4 | 18.5 | 25 | 147457 |
| 5 | 22 | 30 | 161933 |
| 6 | 30 | 40 | 183260 |
| 7 | 37 | 50 | 229686 |
| 8 | 45 | 60 | 277826 |
| 9 | 55 | 75 | 283592 |
| 10 | 75 | 110 | 430677 |
| 11 | 90 | 120 | 453749 |
| 12 | 110 | 150 | 566159 |
| 13 | 125 | 170 | 728690 |
| 14 | 132 | 180 | 770988 |
| 15 | 150 | 200 | 777718 |
| 16 | 160 | 215 | 847895 |
| 17 | 180 | 240 | 847895 |
| 18 | 187 | 250 | 882503 |
| 19 | 200 | 270 | 947873 |
| 20 | 220 | 300 | 1245887 |
| 21 | 250 | 335 | 1418535 |
| 22 | 280 | 375 | 1957272 |
| 23 | 300 | 400 | 2259131 |

- Note:
- 1) The above rates are basic rates inclusive of handling charges.
 - 2) GST extra applicable as per GO

7.0. HORIZONTAL SQUIRREL CAGE MOTOR 1000 RPM

AC three Phase /415 V/ Horizontal SPDP 6 Pole Squirrel cage Induction motor for HSC Centrifugal pumps

Supply and delivery of AC three Phase 6 pole Horizontal squirrel cage Induction motor conforming to IS 325/1996 and as amended thereafter with Class F insulation to suit the speed of pump and suitable for operation with continuous S1 rated, 415 V +/- 10 %, 50 HZ +/- 5% supply , TEFC (upto 20 HP), SPDP (above 20 HP). The motor offered should be of energy efficient motors.

| Sl.No | KW | HP | Rate for 2018-19 in Rupees |
|-------|------|------|-------------------------------|
| 1 | 9.3 | 12.5 | 83771 |
| 2 | 11 | 15 | 88027 |
| 3 | 15 | 20 | 124060 |
| 4 | 18.5 | 25 | 146512 |
| 5 | 22 | 30 | 188584 |
| 6 | 30 | 40 | 235230 |
| 7 | 37 | 50 | 294024 |
| 8 | 45 | 60 | 362205 |
| 9 | 55 | 75 | 414964 |
| 10 | 75 | 110 | 498079 |
| 11 | 90 | 120 | 564992 |
| 12 | 110 | 150 | 725909 |
| 13 | 125 | 170 | 863676 |
| 14 | 132 | 180 | 863676 |
| 15 | 150 | 200 | 921927 |
| 16 | 160 | 215 | 994264 |
| 17 | 180 | 240 | 1391463 |
| 18 | 187 | 250 | 1413719 |
| 19 | 200 | 270 | 1530173 |
| 20 | 220 | 300 | 1755696 |
| 21 | 250 | 335 | 1965506 |

- Note:
- 1) The above rates are basic rates inclusive of handling charges.
 - 2) GST extra applicable as per GO

8.0. VERTICAL TURBINE PUMP (WATER LUBRICATED) CONFIRMING TO IS1710/1989 (REAFFIRMED 2009) 1500 RPM SUITABLE FOR VERTICAL HOLLOW SHAFT SQUIRREL CAGE

Supply and delivery of Vertical water/oil lubricated statically, dynamically, hydraulically balanced turbine pump capable of discharging the following duty condition as given below due to all causes with surface discharge head confirming to IS 1710 and as amended as on date with accessories as per IS 5120/1977 (Reaffirmed 2011) and as amended thereafter to suit the site condition. The speed, Number of stages, sizes of column pipes and line shaft indicated is based on site condition prevailing during investigation. The pump should be supplied with non reversible ratchet pin housing safety clutch, suction strainer etc. The Pump Bowl assembly shall be with bronze impeller running at 1450 RPM. The pump includes suitable head shaft, suitable 1.5 metre long SS line shaft required Nos. to suit the well depth, Rubber line shaft bearing of required Nos., C.I Bearing retainer of required Nos., 100 litre HDPE Pre- lubricating tank with 20mm PVC Rigid pipe connection along with GM gate valves, Suitable ERW column pipe of each 1.5m long of required Nos. to suit the well depth, Suction bell mouth of suitable size, M.S. clamps suitable for column pipe/line shaft - 2 set and Spanner - 1 set etc complete

| Sl.No. | Capacity in LPM | Rate for 2018-19 in Rupees | | | | | | | | | | Rs. in Lakhs. | | |
|--------|-----------------|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|-------|-------|
| | | Head in Metres | | | | | | | | | | 90m | 100m | |
| | | 15m | 20m | 30m | 40m | 50m | 60m | 70m | 80m | 90m | | | | |
| 1 | 1500 | 3.00 | 3.00 | 3.20 | 3.20 | 3.20 | 3.41 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.99 | 4.19 |
| 2 | 2000 | 6.00 | 6.35 | 7.10 | 7.88 | 8.78 | 9.42 | 9.77 | 9.97 | 10.17 | 10.88 | 11.24 | 12.69 | 13.80 |
| 3 | 3000 | 7.75 | 7.92 | 8.40 | 9.34 | 10.34 | 10.76 | 11.18 | 11.18 | 11.18 | 11.18 | 11.18 | 11.18 | 11.24 |
| 4 | 4000 | 8.48 | 8.77 | 10.90 | 11.08 | 11.24 | 11.24 | 11.59 | 12.34 | 12.69 | 12.69 | 12.69 | 12.69 | 12.69 |
| 5 | 5000 | 10.24 | 10.54 | 11.08 | 11.84 | 12.22 | 12.52 | 13.04 | 13.25 | 13.43 | 13.80 | 13.80 | 13.80 | 13.80 |
| 6 | 6000 | 10.54 | 10.54 | 11.23 | 11.80 | 12.52 | 12.52 | 13.04 | 13.25 | 13.44 | 13.80 | 13.80 | 13.80 | 13.80 |
| 7 | 7000 | 10.54 | 10.54 | 11.23 | 11.80 | 12.52 | 12.52 | 13.04 | 13.25 | 13.44 | 13.80 | 13.80 | 13.80 | 13.80 |
| 8 | 8000 | 11.23 | 11.45 | 11.80 | 12.35 | 12.69 | 12.69 | 13.04 | 13.44 | 13.44 | 13.80 | 13.80 | 13.80 | 13.80 |
| 9 | 10000 | 11.23 | 11.45 | 11.90 | 12.35 | 12.69 | 13.04 | 13.44 | 13.44 | 13.80 | 13.80 | 13.80 | 13.80 | 13.80 |
| 10 | 15000 | 12.31 | 12.59 | 12.69 | 13.04 | 13.82 | 13.80 | 14.14 | 14.89 | 15.23 | 15.58 | 15.58 | 15.58 | 15.58 |
| 11 | 20000 | 14.01 | 14.46 | 15.05 | 15.61 | 16.00 | 17.89 | 19.67 | 20.05 | 23.11 | 27.83 | 27.83 | 27.83 | 27.83 |
| 12 | 25000 | 14.50 | 14.86 | 15.42 | 15.90 | 16.37 | 18.23 | 20.05 | 20.52 | 23.58 | 28.68 | 28.68 | 28.68 | 28.68 |
| 13 | 30000 | 25.68 | 26.89 | 27.88 | 29.76 | 30.05 | 31.65 | 32.03 | 35.61 | 36.05 | 39.86 | 39.86 | 39.86 | 39.86 |

Note: 1) The above rates are basic rates inclusive of transportation and handling charges

2) GST extra applicable as per GO

3) Multiply with 1.15 for oil lubricated pumps (for raw water)

4) Rates given are with suspension length of 7m, bronze impeller, SS 401 shaft, MS column pipe, discharge case & CI bell mouth.

5) Add 7.5% extra for each 1.5 m length column pipe assembly in the above rate.

9.0 VERTICAL HOLLOW / SOLID SHAFT MOTORS FOR TURBINE PUMP

AC three Phase /415 V/ Vertical Hollow / Solid Shaft TEFC & SPDP 4 Pole Squirrel cage Induction Motor 1500RPM

Supply and delivery of vertical Hollow / Solid shaft Squirrel cage induction motor (IS 325) suitable for the above pump continuous rated TEFC/SPDP type with Class 'F' insulation for operation in AC, three Phase/50 HZ ($\pm 5\%$), 415V ($\pm 10\%$) running with a speed of pump noted above and with inbuilt thrust bearing assembly capable of taking up the entire load and non - reverse ratchet assembly etc., complete. The motor rating noted above is the minimum and shall be such that it should never be over loaded when the pump works at MWL condition and shall be 10% over and above the maximum HP absorbed by the pump. The motor offered should be energy efficient motors to have maximum efficiency at high power factor. Separate thrust bearing assembly could also be supplied to take up the down load.

| Sl.No | KW | HP | Rate for 2018-19 in Rupees |
|--------------------|------|-----|-------------------------------|
| TEFC MOTORS | | | |
| 1 | 18.5 | 25 | 105820 |
| 2 | 22 | 30 | 116404 |
| 3 | 30 | 40 | 134672 |
| 4 | 37 | 50 | 176273 |
| 5 | 45 | 60 | 212974 |
| SPDP MOTORS | | | |
| 6 | 55 | 75 | 333445 |
| 7 | 75 | 100 | 439971 |
| 8 | 90 | 120 | 458867 |
| 9 | 110 | 150 | 591302 |
| 10 | 125 | 170 | 611078 |
| 11 | 132 | 180 | 685238 |
| 12 | 150 | 200 | 771952 |
| 13 | 160 | 215 | 927493 |
| 14 | 180 | 240 | 967045 |
| 15 | 187 | 250 | 973967 |
| 16 | 200 | 270 | 1077791 |
| 17 | 220 | 300 | 1127231 |
| 18 | 250 | 335 | 1206335 |
| 19 | 280 | 375 | 1409776 |
| 20 | 300 | 400 | 1598221 |
| 21 | 380 | 520 | 1765332 |
| 22 | 400 | 540 | 2088887 |

Note: 1) The above rates are basic rates inclusive of handling charges.
2) GST extra applicable as per GO

10.0 Iron core Oil Cooled Transformer with Copper Winding Conforming to IS 2026

Supply and delivery of 11 KV/433 Volts, 22 KV/433 Volts and 11 /22 KV/433 Volts, three Phase 50 Hz double wound oil immersed natural air cooled, core type continuous rating, outdoor distribution power transformer with copper winding for voltage ratio 22-11 KV/433 volts between phases with neutral brought out at LV side. The transfer shall be contained in a mild steel plain & radiator cooled tank, conforming to IS 2026 with off-load tap switch for $\pm 10\%$ on LV side and $\pm 5\%$ on H.V.side. The transformer shall be supplied with first filling of oil and consisting of all the fittings and accessories such as Inspection cover, Oil level indicator with minimum and filling level markings, Externally operated off circuit tap changing switch with locking device & keys, H.V. Terminals- Bushings, L.V. Terminals cable box Rating plate, Two earthing terminals, two lifting hooks etc complete as per IS 2026/2011 and as amended thereafter.

| Sl.No | Rating in KVA | Rate for 2018-19 in Rupees | | |
|-------|---------------|----------------------------|-------------|-----------------|
| | | 11KV/433V | 22 KV/433 V | 11KV/22KV /433V |
| 1 | 63 | 138432 | 147084 | 164388 |
| 2 | 100 | 159600 | 168000 | 184800 |
| 3 | 150 | 283208 | 299936 | 344926 |
| 4 | 160 | 233604 | 255234 | 276864 |
| 5 | 200 | 259560 | 255234 | 276864 |
| 6 | 250 | 319200 | 363384 | 389340 |
| 7 | 315 | 372036 | 397992 | 432600 |
| 8 | 400 | 415296 | 458556 | 501816 |
| 9 | 500 | 478800 | 515199 | 571199 |
| 10 | 630 | 537599 | 571199 | 638399 |
| 11 | 750 | 638399 | 660800 | 789599 |
| 12 | 800 | 660800 | 688799 | 826559 |
| 13 | 1000 | 739199 | 772799 | 927359 |

- Note :
- 1) The above rates are basic rates inclusive of transportation and handling charges.
 - 2) GST extra applicable as per GO

11.0. SINGLE PHASE PANEL BOARD WITH TWO LEVEL GUARD AND AUTO START

Supply and delivery of direct online starter conforming to IS13947, IEC60947-1 suitable KW rating for operation in AC/single Phase/50Hz($\pm 5\%$) and 230 V($\pm 10\%$) including Ammeter, Voltmeter, Thermal Overload relay, 16 amps 2 pole Magnetic Contactor with under Voltage protection, Indication lamp, starting capacitor, running capacitor and On/Off Push button switches, 5 way connector, wiring with 1 sq. mm/1.5 sq. mm copper PVC insulated cable, powder coated vermin proof box including the capacitor (the cost of capacitor is to be taken separately).

| SI. No. | HP | Unit | Rate for 2018-19 in Rupees |
|---------|-----|-------|----------------------------|
| 1 | 1 | 1 No. | 5280.00 |
| 2 | 1.5 | 1 No | 5500.00 |
| 3 | 2 | 1 No | 6376.00 |

- Note:
- 1) The rate are basic rates inclusive of two level guard worth Rs.550/- and auto start facility worth Rs. 400/-
 - 2) Timer is not recommended for this panel board.
 - 3) Panel board should be provided as per specification given in Board circular No. 23/DCE/QATA/2004/Dt. 23.8.2004
 - 4) GST extra applicable as per GO

11.1. THREE PHASE PANEL BOARD- D.O.L WITH TWO LEVEL GUARD AND AUTO START

Supply and delivery of direct online starter conforming to IS13947, IEC 60947-1 suitable KW rating for operation in AC/three Phase/50HZ($\pm 5\%$) and 415 V($\pm 10\%$) including Ammeter, Voltmeter, Thermal Overload relay, 16 amps 2 pole Magnetic Contactor with under Voltage protection, Indication lamp, starting capacitor, running capacitor and On/Off Push button switches, 5 way connector, wiring with 1 sq. mm/1.5 sq. mm copper PVC insulated cable, powder coated vermin proof box including the capacitor (the cost of capacitor is to be taken separately).

| SI. No. | HP | Unit | Rate for 2018-19 in Rupees |
|---------|----|-------|----------------------------|
| 1 | 1 | 1 No. | 12387.00 |
| 2 | 2 | 1 No | 12387.00 |
| 3 | 3 | 1 No | 12650.00 |
| 4 | 4 | 1 No. | 12650.00 |
| 5 | 5 | 1 No | 13006.00 |
| 6 | 6 | 1 No | 13006.00 |

- Note :
- 1) The rate are basic rates inclusive of two level guard worth Rs.550/- and auto start facility worth Rs. 400/-
 - 2) For Timer facility if necessary Rs. 4000 may be added as extra.
 - 3) Panel board should be provided as per specification given in Board circular No. 23/DCE/QATA/2004/Dt. 23.8.2004
 - 4) GST extra applicable as per GO

11.2 THREE PHASE PANEL BOARD-STAR DELTA WITH TWO LEVEL GUARD AND AUTO START

Supply and delivery of Star-Delta starter conforming to IS13947, IEC 60947-1 suitable KW rating for operation in AC/ three Phase/50Hz (+/- 5%) and 415V (+/- 10%) including 3 pole magnetic contactor with under voltage release - 3 nos., CT operated Ammeter(65 mm dia) with suppressed scale, Voltmeter (65mm dia), Voltmeter selector switch, Miniature circuit breaker, Thermal Overload relay, Air Break contactors suitable for next Standard higher KW rating, Single phasing preventor, dry running preventor and On/Off Push button switches, wiring with 1 sq.mm/4 sq. mm copper pvc insulated cable, powder coated vermin proof box, including the capacitor(the cost of capacitor is to be taken separately).

| Sl. No. | HP | Unit | Rate for 2018-19 in Rupees |
|---------|------|-------|----------------------------|
| 1 | 6 | 1 No. | 15575 |
| 2 | 7.5 | 1 No | 16352 |
| 3 | 10 | 1 No | 19807 |
| 4 | 12.5 | 1 No. | 20633 |
| 5 | 15 | 1 No | 21483 |
| 6 | 20 | 1 No | 21483 |
| 7 | 25 | 1 No | 21483 |

- Note :
- 1) The rate are basic rates inclusive of two level guard worth Rs.550/- and auto start facility worth Rs. 400/-
 - 2) For Timer facility if necessary Rs. 4000 may be added as extra.
 - 3) Panel board should be provided as per specification given in Board circular No. 23/DCE/QATA/2004/Dt. 23.8.2004
 - 4) GST extra applicable as per GO

11.3 DOL STARTER WITH SINGLE PHASING PREVENTOR WITH ANALOG AMMETER AND VOLTMETER CONFORMING TO IS13947, IEC60947-1 WITH AUTO RESTART FACILITY FOR PUMP HOUSES WHERE PANEL BOARDS ARE AVAILABLE

Supply and delivery of direct online starter conforming to IS13947, ICE 60947-1 suitable KW rating for operation in AC/ three Phase/50HZ(+/- 5%) and 415V (+/- 10%) including Ammeter, Overload relay, under Voltage release with no Volt coil, Air Break contactors suitable for next Standard higher KW rating, Single phase preventor, dry running preventor and On/ Off Push button switches, including the capacitor(the cost of capacitor is to be taken separately).

Upto 5 HP - Rs. 4711/- each.

- Note :
- 1) The above rate is basic rate only.
 - 2) GST extra applicable as per GO

11.4 FLEX COMPENSATED MAGNETIC AMPLIFIER SOFT STARTER SUITABLE FOR L.T.SQUIRREL CAGE MOTOR

Supply and delivery of floor mounted type FCMA Air/ Oil Cooled soft starter suitable for the LT motor offered for operation in AC three Phase 50Hz (+/- 5%), 415V(+/-10%) including line contactors suitable for next standard higher KW rating, Over load relay, instrument panel with frequency meter, Ammeter, Voltmeter, indicating lamp 6Nos, LED ON/OFF type and Start / Stop push button.

| SI. No. | KW | Unit | Rate for 2018-19 in Rupees |
|---------|------------|------|----------------------------|
| 1 | 30 to 37 | 1 No | 171498.00 |
| 2 | 38 to 75 | 1 No | 305760.00 |
| 3 | 76 to 135 | 1 No | 426297.00 |
| 4 | 136 to 160 | 1 No | 482160.00 |
| 5 | 161 to 250 | 1 No | 720301.00 |
| 6 | 251 to 300 | 1 No | 844760.00 |
| 7 | 301 to 500 | 1 No | 1188044.00 |
| 8 | 501 to 750 | 1 No | 1557220.00 |

- Note:
- 1) The above rates are basic rates only
 - 2) DOL starters are to be adopted up to 6 HP
 - 3) Air break fully automatic star delta starters are suggested for above 6 HP upto 20HP except submersible pumpsets for which fully automatic ATS starters are to be adopted
 - 4) FCMA soft starter are to be adopted for 100 HP and above.
 - 5) GST extra applicable as per GO

11.5 FLEX COMPENSATED MAGNETIC AMPLIFIER SOFT STARTER SUITABLE FOR H.T.SQUIRREL CAGE MOTOR

Supply and delivery of suitable KW indoor automatic air cooled dust and vermin proof FCMA Soft Starter for the operation in 3.3 KV three Phase 50 Hz, AC supply termination with phase segregated neutral terminal box of the motor , housed in 14 SWG sheet steel enclosure, painted with epoxy or polyurethane , 230V AC 10 Amps control supply , Class B insulation, 300 mm height fabricated pedestal (to prevent water ingress for starter panel) and condensation heater with switch with thermostat, interlocking with running motor with built in facility for run mode/by pass etc. complete. The starter may be provided with contactors suitable for next standard higher KW rating, Over load relay, instrument panel with frequency meter, Ammeter, Voltmeter, indicating lamp 6 Nos, LED ON/OFF type and Start / Stop push button.

| SI. No. | KW | Unit | Rate for 2018-19 in Rupees |
|---------|------|------|----------------------------|
| 1 | 250 | 1 No | 701644.00 |
| 2 | 300 | 1 No | 739039.00 |
| 3 | 350 | 1 No | 794444.00 |
| 4 | 400 | 1 No | 831545.00 |
| 5 | 500 | 1 No | 867937.00 |
| 6 | 600 | 1 No | 976079.00 |
| 7 | 700 | 1 No | 1074088.00 |
| 8 | 800 | 1 No | 1200497.00 |
| 9 | 900 | 1 No | 1302417.00 |
| 10 | 1000 | 1 No | 1424687.00 |

- Note:
- 1) The above rates are basic rates only
 - 2) DOL starters are to be adopted up to 6 HP
 - 3) Air break fully automatic star delta starters are suggested for above 6 HP upto 20HP except submersible pumpsets for which fully automatic ATS starters are to be adopted
 - 4) FCMA soft starter are to be adopted for 100 HP and above.
 - 5) GST extra applicable as per GO

11.6 FULLY AUTOMATIC AIR BREAK STAR DELTA STARTER WITH SINGLE PHASE PREVENTOR WITH AMMETER CONFIRMING TO IS13947, IEC 60947-1 WITH AUTO RESTART FACILITY FOR PUMP HOUSES WHERE PANEL BOARDS ARE AVAILABLE

Supply and delivery of Star-Delta starter where panel boards are available confirming to IS13947, IEC 60947-1 suitable KW rating for operation in AC/ three Phase/50Hz(+/- 5%) and 415V (+/-10%) including 3 pole magnetic contactor with under voltage release - 3 Nos., CT operated Ammeter(65 mm dia) with suppressed scale, Voltmeter (65mm dia), Voltmeter selector switch, Minature circuit breaker, Thermal Overload relay, Air Break contactors suitable for next Standard higher KW rating, Single phasing preventor, dry running preventor and On/Off Push button switches, wiring with 1 sq.mm/4 sq. mm copper pvc insulated cable, powder coated vermin proof box, including the capacitor(the cost of capacitor is to be taken separately).

| Sl. No. | KW Rating | HP | Unit | Rate for 2018-19 in Rupees |
|---------|-----------|----|------|----------------------------|
| 1 | 7.5 | 10 | 1 No | 15658 |
| 2 | 11 | 15 | 1 No | 15658 |
| 3 | 15 | 20 | 1 No | 16884 |
| 4 | 18.5 | 25 | 1 No | 16884 |
| 5 | 22 | 30 | 1 No | 27556 |
| 6 | 30 | 40 | 1 No | 31565 |
| 7 | 37 | 50 | 1 No | 35998 |

- Note:
- 1) The above rates are basic rates inclusive of handling charges.
 - 2) GST extra applicable as per GO

11.7 FULLY AUTOMATIC AIR BREAK AUTO TRANSFORMER STARTER WITH SINGLE PHASING PREVENTOR WITH AMMETER CONFIRMING TO IS 8544 PART IV WITH AUTO RESTART FACILITY

Supply and delivery of Fully Automatic Auto Transformer Starter suitable for the motor offered. Floor mounting type air/ oil cooled Auto Transformer Starter with tapings at 50%, 65%, 80%, housed in robust steel chamber with arc and main contacts confirming to IS 8544 Part IV for operation in AC three Phase 50 Hz (+/- 5%), 415V (+/- 10%) with the following components etc. under voltage release with no volt coil, over load relay with dash pot arrangements, single phasing preventor, LED ON/ OFF switches, Mounted Ammeter, Earth leakage relay, contactor assembly suitable for next standard KW rating, incoming and outgoing cable entry provisions, transformer tank including first filling of oil etc.

| Sl.No. | KW Rating | HP | Unit | Rate for 2018-19 in Rupees |
|--------|-----------|------|------|----------------------------|
| 1 | 5.5 | 7.5 | 1 No | 27195 |
| 2 | 7.5 | 10 | 1 No | 27195 |
| 3 | 9 | 12.5 | 1 No | 31282 |
| 4 | 11 | 15 | 1 No | 32586 |
| 5 | 15 | 20 | 1 No | 65171 |
| 6 | 22 | 30 | 1 No | 83300 |
| 7 | 30 | 40 | 1 No | 93707 |
| 8 | 37 | 50 | 1 No | 108093 |
| 9 | 45 | 60 | 1 No | 120638 |
| 10 | 60 | 80 | 1 No | 166857 |
| 11 | 75 | 100 | 1 No | 182801 |

- Note:
- 1) The above rates are basic rates inclusive of handling charges.
 - 2) GST extra applicable as per GO

12.0. L.T. CABLES 3,3.5,4 CORE 1.1 KV GRADE ARMOURED ALUMINIUM CONDUCTOR CROSS LINKED POLY ETHYLENE INSULATED PVC SHEATHED CABLES CONFIRMING TO IS 7098 (PART I)/1988 WITH ISI MARKING

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees | | |
|-------|-------------|-------|----------------------------|----------|--------|
| | | | 3 Core | 3.5 Core | 4 Core |
| 1 | 4 sq.mm | metre | 71.50 | – | 145.00 |
| 2 | 6 sq.mm | metre | 87.00 | – | 153.00 |
| 3 | 10 sq.mm | metre | 98.00 | – | 168.00 |
| 4 | 16 sq.mm | metre | 103.00 | – | 219.00 |
| 5 | 25 sq.mm | metre | 129.00 | 267.75 | – |
| 6 | 35 sq.mm | metre | 158.00 | 315.00 | – |
| 7 | 50 sq.mm | metre | 210.00 | 411.60 | – |
| 8 | 70 sq.mm | metre | 277.00 | 527.10 | – |
| 9 | 95 sq.mm | metre | 362.00 | 680.40 | – |
| 10 | 120 sq.mm | metre | 436.00 | 832.65 | – |
| 11 | 150 sq.mm | metre | 531.00 | 985.95 | – |
| 12 | 185 sq.mm | metre | 655.00 | 1208.55 | – |
| 13 | 240 sq.mm | metre | 827.00 | 1525.65 | – |
| 14 | 300 sq.mm | metre | 1004.00 | 1872.15 | – |
| 15 | 400 sq.mm | metre | 1285.00 | 2395.05 | – |

Note: 1) The above rates are basic rates only.
2) GST extra applicable as per GO

**12.1. PVC INSULATED AND SHEATHED 3 CORE FLAT TYPE COPPER CABLE
CONFIRMING TO IS 694/1990**

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees |
|--------------|--------------------|-------------|-----------------------------------|
| 1 | 1.5 sq.mm | meter | 69 |
| 2 | 2.5 sq.mm | meter | 108 |
| 3 | 4.0 sq.mm | meter | 161 |
| 4 | 6.0 sq.mm | meter | 217 |
| 5 | 10.0 sq.mm | meter | 375 |
| 6 | 16.0 sq.mm | meter | 583 |
| 7 | 25.0 sq.mm | meter | 798 |
| 8 | 35.0 sq.mm | meter | 1169 |
| 9 | 50.0 sq.mm | meter | 1638 |
| 10 | 70.0 sq.mm | meter | 2415 |
| 11 | 95.0 sq.mm | meter | 2940 |

- Note: 1) The above rates are basic rates only.
2) GST extra applicable as per GO

12.2 RATE FOR CABLE JOINTS INCLUDING JOINTING MATERIALS AND LABOUR

I. JOINTING OF L.T.CABLES - 3,3.5,4 CORE 1.1 KV GRADE ARMoured ALUMINIUM CONDUCTOR CABLE CONFIRMING TO IS 1554 PART I WITH ISI MARKING

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees | | |
|-------|-------------|-------|----------------------------|----------|--------|
| | | | 3 Core | 3.5 Core | 4 Core |
| 1 | 4 sq.mm | metre | 75.50 | – | 152.00 |
| 2 | 6 sq.mm | metre | 91.00 | – | 160.00 |
| 3 | 10 sq.mm | metre | 103.00 | – | 176.00 |
| 4 | 16 sq.mm | metre | 108.00 | – | 231.00 |
| 5 | 25 sq.mm | metre | 134.00 | 280.00 | – |
| 6 | 35 sq.mm | metre | 166.00 | 330.00 | – |
| 7 | 50 sq.mm | metre | 219.00 | 430.00 | – |
| 8 | 70 sq.mm | metre | 290.00 | 552.00 | – |
| 9 | 95 sq.mm | metre | 380.00 | 714.00 | – |
| 10 | 120 sq.mm | metre | 457.00 | 873.00 | – |
| 11 | 150 sq.mm | metre | 558.00 | 1032.00 | – |
| 12 | 185 sq.mm | metre | 687.00 | 1266.00 | – |
| 13 | 240 sq.mm | metre | 866.00 | 1599.00 | – |
| 14 | 300 sq.mm | metre | 1052.00 | 1961.00 | – |
| 15 | 400 sq.mm | metre | 1346.00 | 2510.00 | – |

**II. JOINTING OF XLPE INSULATED AND SHEATHED 3 CORE FLAT TYPE
COPPER CABLE CONFIRMING TO IS 694/1990**

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees |
|-------|-------------|-------|----------------------------|
| 1 | 1.5 sq.mm | meter | 74.50 |
| 2 | 2.5 sq.mm | meter | 118.00 |
| 3 | 4.0 sq.mm | meter | 175.00 |
| 4 | 6.0 sq.mm | meter | 235.00 |
| 5 | 10.0 sq.mm | meter | 410.00 |
| 6 | 16.0 sq.mm | meter | 634.00 |
| 7 | 25.0 sq.mm | meter | 834.00 |
| 8 | 35.0 sq.mm | meter | 1220.00 |
| 9 | 50.0 sq.mm | meter | 1712.00 |
| 10 | 70.0 sq.mm | meter | 2523.00 |
| 11 | 95.0 sq.mm | meter | 3071.00 |

**III. JOINTING OF HT CABLE -XLPE INSULATED ARMoured ALUMINIUM
CONDUCTOR CABLE**

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees | |
|-------|---------------|-------|----------------------------|---------|
| | | | 11KV | 12KV |
| 1 | 3 C 240 sq.mm | metre | 1313.00 | 1604.00 |
| 2 | 3 C 185 sq.mm | metre | 1094.00 | 1357.00 |
| 3 | 3 C 150 sq.mm | metre | 928.00 | 1206.00 |
| 4 | 3 C 120 sq.mm | metre | 825.00 | 1084.00 |
| 5 | 3 C 95 sq.mm | metre | 700.00 | 982.00 |
| 6 | 3 C 70 sq.mm | metre | 627.00 | 865.00 |

12.3 CABLE LAYING

| Sl.No | Description | Rate for 2018-19 in Rupees | |
|-------|------------------|--|---|
| | | For laying below GL including earth work in Rupees | For laying in trenches inside the pump room or in air |
| 1 | up to 95 sq.mm | 144.00 | 93.50 |
| 2 | 95 to 240 sq.mm | 204.00 | 141.00 |
| 3 | 240 to 400 sq.mm | 295.00 | 232.00 |

12.4 CABLE CLAMPS

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|------------------|------|----------------------------|
| 1 | up to 95 sq.mm | each | 297.00 |
| 2 | 95 to 240 sq.mm | each | 369.00 |
| 3 | 240 to 400 sq.mm | each | 546.00 |

- NOTE :
- 1) The above rates are basic rates only.
 - 2) GST extra applicable as per GO
 - 3) For every 3 metre length one set of clamp is to be provided
 - 4) Suitable number of clamps are to be arrived at according to the length
 - 5) Provision for cable trench and delivery pipe duct are to be provided in pump house detailed estimate.

H.T. CABLE

12.5. PVC INSULATED ARMoured ALUMINIUM CONDUCTOR CABLE

| Sl.No | Description | Unit | Rate for 2018-19 in Rupees | |
|-------|---------------|-------|----------------------------|------|
| | | | 11KV | 12KV |
| 1 | 3 C 240 sq.mm | metre | 1253 | 1531 |
| 2 | 3 C 185 sq.mm | metre | 1044 | 1295 |
| 3 | 3 C 150 sq.mm | metre | 886 | 1151 |
| 4 | 3 C 120 sq.mm | metre | 786 | 1034 |
| 5 | 3 C 95 sq.mm | metre | 668 | 938 |
| 6 | 3 C 70 sq.mm | metre | 598 | 825 |

Note: 1) The above rates are basic rates only.
2) GST extra applicable as per GO.

13.0 VACCUM PUMP SET WITH ACCESSORIES

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|---|------|----------------------------|
| 1 | Price for 5 HP Model/Rotary type Vaccum pumpsets (Pumpset + GI Pipes + Fittings + Starters + Valves + 100 Lr.Tank) including Transportation and handling charges. | 1 No | 357699.00 |
| 2 | Price for 10 HP Vaccum pumpset with all the above Accessories | 1 No | 461999.00 |
| 3 | 150mm dia Pressure Gauge and Vaccum guage including all accessories as per specification (For Suction and Delivery to be mounted on wall on Teak Wood Board) | 1 No | 6399.00 |

NOTE : 1) The above rates are basic rates only.
2) GST extra applicable as per GO

14.0 MOULDED CASE CIRCUIT BREAKER(MCCB) WITH THERMO MAGNETIC RELEASE

| Sl.No. | Range | Rate for 2018-19 in Rupees | |
|--------|--------|----------------------------|--------|
| | | 3POLE | 4 POLE |
| 1 | 32-100 | 9800 | 12133 |
| 2 | 125 | 13533 | 14933 |
| 3 | 160 | 16352 | 19600 |
| 4 | 200 | 28000 | 31061 |
| 5 | 250 | 28000 | 32668 |
| 6 | 320 | 35861 | 41523 |
| 7 | 400 | 37771 | 43400 |
| 8 | 630 | 41770 | 50333 |
| 9 | 800 | 56624 | 75447 |
| 10 | 1000 | 88059 | 113248 |
| 11 | 1250 | 99372 | 137199 |
| 12 | 1600 | 113190 | 170799 |

- NOTE:**
- 1) The above rates are basic rates inclusive of handling charges and F.O.R destination.
 - 2) GST extra applicable as per GO
 - 3) The rate for MCB for single phase usage the PWD schedule of rates shall be referred.
 - 4) Add 35% cost of MCCB/ACB/ MCB towards the cost of fabrication other fittings and labour
 - 5) Upto 15 KW distribution box shall be used. For more than one outgoing loads PWD schedule of rates shall be referred.

15.0 RATE FOR MIXED DI ELECTRIC CAPACITOR WITH TNEB TEST CERTIFICATE WITH ACCESSORIES INCLUDING BANKING CONFIRMING TO IS 2834.

Rs.466/- per KVAR

- Note:**
- 1) The above rate is basic rate inclusive of handling charges.
 - 2) GST extra applicable as per GO
 - 3) The rate for mixed DI Electric Capacitor with Test Certificate given as Rs.466/- per KVAR is inclusive of Banking charges, such as providing of copper bus bars with provision for adding atleast 2 capacitors at later date, cable entry box, fabricating charges etc. complete. This rate is not applicable for replacement of capacitors which does not require banking and fabrication works.

16.0 LT/LTCT METERING BOX as per IE rules and TANGEDCO norms

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|--|-------|----------------------------|
| 1 | Up to 50HP/37 KW (which includes LT meter panel board 6 Nos. suitable fuse carriers) | 1 No. | 24255.00 |
| 2 | 75 HP/56 KW (which includes LT meter panel board 6 Nos. suitable fuse carriers) | 1 No. | 31654.00 |
| 3 | 75HP-150HP/56-112 KW (which includes LTCT meter panel board 6 Nos. suitable fuse carriers and 3 Nos. CT Coil) | 1 No. | 39445.00 |
| 4 | In HT supply using LTCT metering Box as per IE rules and TANGEDCO norms (Above 150 HP below 200 HP) 112-150 KW | 1 No. | 63700.00 |

Note : 1) The above rates are basic rates inclusive of handling charges.
2) GST extra applicable as per GO

17.0 TRANSFORMER SUB STATION RELATED WORKS

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|---|-------|----------------------------|
| 1 | Designing and preparation of CEIG drawings, obtaining Approval and safety certificate including submission of Completion report and rectification report. | 1 No. | 66032.00 |
| 2 | Supply, delivery of 6 pole structure materials with suitable Size RSJ along with all structure material are as under. | | |
| a | For 11 KV Sub station | 1 No. | 336000.00 |
| b | For 22 KV Sub station | 1 No. | 448000.00 |
| 3 | Construction of transformer plinth | 1 No. | 22400.00 |
| 4 | Chain link fencing with gate including the TNEB 2 poles Spreading of materials as per CEIG requirements | 1 No. | 56000.00 |
| 5 | Transformer yard earthing using copper flat and TWIN earthing as per IS | | |
| a | Upto 250 KVA Transformer sub station | 1 No. | 33600.00 |
| b | Above 250 KVA | 1 No. | 67200.00 |
| 6 | Transformer sub station erection charges | 1 No. | 21356.00 |

Note : 1) The above rates are basic rates inclusive of handling charges.
2) GST extra applicable as per GO
3) Provision for cement concrete flooring has to be made at the sub station yard

17.1 AIR CIRCUIT BREAKER (With Shunt release and Under voltage release)

| Sl.No. | Range in AMPS | Rate for 2018-19 in Rupees | |
|--------|---------------|----------------------------|-----------|
| | | 3POLE | 4 POLE |
| 1 | 630 | 123768.00 | 124762.00 |
| 2 | 800 | 153873.00 | 155950.00 |
| 3 | 1000 | 174384.00 | 215000.00 |
| 4 | 1250 | 185097.00 | 226735.00 |
| 5 | 1600 | 205408.00 | 264200.00 |
| 6 | 2000 | 242666.00 | 289333.00 |
| 7 | 2500 | 266000.00 | 317333.00 |
| 8 | 3200 | 349999.00 | 420933.00 |
| 9 | 4000 | 486157.00 | 583333.00 |

- Note: 1) The above rates are basic rates inclusive of handling charges, F.O.R destination.
2) GST extra applicable as per GO

18.0 SAFETY APPLIANCES

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|--|-------|----------------------------|
| 1 | Electrical gloves tested to 11 KV /22 KV with wooden box dusted with french chalk powder | 1 No. | 564.90 |
| 2 | Electrical quality 6mm thick rubber mat | 1 No. | 617.40 |
| 3 | 5 kg capacity ISI marked Dry chemical powder fire extinguisher | 1 No. | 2207.10 |
| 4 | Fire Bucket-3 Nos Hooked to MS stand | 1 No. | 882.00 |
| 5 | Laminated shock treatment chart | 1 No. | 588.00 |
| 6 | Wooden First Aid Box | 1 No. | 742.35 |
| 7 | Rechargeable Emergency lamp(600mm fluorescent lamp) | 1 No. | 2951.55 |
| | H.T. SUPPLY | | |
| 8 | Teak Wood ladder -5M Ht. | 1 No. | 1512.00 |
| 9 | Earth Discharge Rod (3 Nos. -RYB) | 1 No. | 1264.20 |

- Note: 1) The above rates are basic rates inclusive of handling charges, F.O.R destination.
2) GST extra applicable as per GO

19.0 TWIN CI EARTHING as per IS 3043/1987 and Latest amendments

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------------|-------------------------|-------------|-----------------------------------|
| 1 | Upto 25 HP installation | 1 No. | 12035.00 |
| 2 | Above 25-60 HP | 1 No. | 18522.00 |
| 3 | Above 60-150 HP | 1 No. | 28880.00 |
| 4 | Above 150 HP | 1 No. | 46305.00 |

- Note :
- 1) The above rates are basic rates only.
 - 2) GST extra applicable as per GO
 - 3) In case of collector well the collector well distance from the bank of the river should be ascertained to find out the weight of GI strip to be used only in the foot bridge and rate of Rs.47/- per Kg should be adopted for estimation and this amount should be added with the above rates.

20.0 TOOLS

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|---|-------|----------------------------|
| 1 | 6" Chain wrench best India make or equivalent | 1 No. | 635.00 |
| 2 | 8"Chain Wrench Best India Make or equivalent | 1 No. | 859.00 |
| 3 | Connector Screw Driver 901 Taparia Make or equivalent | 1 No. | 55.50 |
| 4 | 200mm Screw Driver 825 Taparia Make or equivalent | 1 No. | 91.00 |
| 5 | 300mm Screw Driver 829 Taparia Make or equivalent | 1 No. | 169.00 |
| 6 | 400mm Screw Driver 930 Taparia Make or equivalent | 1 No. | 246.00 |
| 7 | 200mm Cutting Plier Taparia Make or equivalent | 1 No. | 299.00 |
| 8 | 800gm Ball Pane Hammer with Handle Taparia Make | 1 No. | 377.00 |
| 9 | Digital Tong Tester CE Make or equivalent | 1 No. | 3334.00 |
| 10 | Digital Multi Meter CE Make or equivalent | 1 No. | 2240.00 |
| 11 | 15" Screw Spanner Taparia Make or equivalent | 1 No. | 776.00 |
| 12 | 12" Bearing Puller | 1 No. | 770.00 |
| 13 | Lever Type Grease Gun | 1 No. | 630.00 |
| 14 | 12"Screw Spanner | 1 No. | 570.00 |
| 15 | Crow Bar 5" | 1 No. | 557.00 |
| 16 | 1" Cold Chisel | 1 No. | 204.00 |
| 17 | Hacksaw Frame with Blade | 1 No. | 126.00 |
| 18 | Electrical Air Blower | 1 No. | 2889.00 |
| 19 | Digital Tachometer | 1 No. | 1941.00 |
| 20 | Hand Crimping Tool 8" | 1 No. | 525.00 |
| 21 | DE Spanner set 6 to 32 Jhalani Make or equivalent | 1 No. | 1005.00 |
| 22 | Rings spanner set 6 to 32 Jhalani Make or equivalent | 1 No. | 2249.00 |
| 23 | Pipe Wrench 24" Jhalani Make or equivalent | 1 No. | 1287.00 |
| 24 | Pipe Wrench 14" Jhalani Make or equivalent | 1 No. | 635.00 |
| 25 | 12" Flat rough File Scissors Make or equivalent | 1 No. | 317.00 |
| 26 | 12" Flat smooth File Scissors Make or equivalent | 1 No. | 477.00 |
| 27 | 12"Round File Rough Scissors Make or equivalent | 1 No. | 369.00 |
| 28 | 12" Round File Smooth Scissors Make or equivalent | 1 No. | 440.00 |
| 29 | 12"Half Round File Rough Scissors Make or equivalent | 1 No. | 644.00 |
| 30 | 12"Half Round File Smooth Scissors Make or equivalent | 1 No. | 644.00 |

Note: 1) The above rates are basic rates inclusive of handling charges, F.O.R destination.
2) GST extra applicable as per GO

21. H.O.T. CRANE AND ACCESSORIES

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------------|--|-------------|-----------------------------------|
| 1 | 2T capacity hand operated over head Travelling (HOT) crane suitable for a span upto 6 Mtrs, and travel length upto 10 Mtrs. with clear lift upto 6 Mtrs. including gear type chain pulley block with GI chain and geared Travelling trolley complete with all accessories including girder | 1 No. | 332621.00 |
| 2 | 2T HOT crane with above specifications upto 8 M Span including Girder | 1 No. | 345514.00 |
| 3 | 2T HOT crane with above specifications upto 10 M Span including Girder | 1 No. | 375569.00 |
| 4 | 3T capacity hand operated over head Travelling (HOT) crane suitable for a span upto 6 Mtrs, and travel length upto 10 Mtrs. with clear lift upto 6 M including gear type chain pulley block and geared Travelling trolley complete with all accessories including Girder. | 1 No. | 360000.00 |
| 5 | 3T HOT crane with above specifications upto 8 M Span including Girder. | 1 No. | 389628.00 |
| 6 | 3T HOT crane with above specifications upto 10 M Span including Girder. | 1 No. | 404047.00 |
| 7 | 5T capacity hand operated over head Travelling (HOT) crane suitable for a span upto 6 Mtrs, and travel length upto 10 M with clear lift upto 6 M including gear type chain pulley block and geared Travelling trolley complete with all accessories including Girder. | 1 No. | 423948.00 |
| 8 | 5T HOT crane with above specifications upto 8 M Span including Girder. | 1 No. | 455520.00 |
| 9 | 5T HOT crane with above specifications upto 10M Span including Girder. | 1 No. | 473553.00 |

Note: 1) The above rates are basic rates inclusive of handling charges.
2) GST extra applicable as per GO

22.0. Submersible Centrifugal Sewage non clog pumps

Supply and delivery of submersible centrifugal sewage non-clog pumps, vertical spindle type pump, wear resistance with submersible motor for the various duty conditions as stated in the annexure. Pump shall be capable of handling min 100 mm solid size with sewage specific gravity of up to 1.05. Pump shall be of robust construction. Liquid passages shall be finished smooth and designed as to allow free passage to solids. Pump Impeller should be of Non-clog semi open type, single vane / multi vane preferably contra bloc or vortex impeller design. Double mechanical seal with silicon carbide faces should be provided to protect the motor from ingress of sewage along the shaft. The critical speed of the rotor shall be at least 30% above the operating speed. Pumps to have double bearings between the pump & motor. The bearings life shall be minimum 100,000 hrs of operation with greased for life. Pump should be provided with automatic coupling device including pedestal, duck foot bend, stainless steel guide pipe or related accessories of suitable size to facilitate lifting and lowering into guide rails for easy maintenance. Pump shall be provided with a stainless steel lifting chain conforming to BS 970 Gr 304. Pump speed shall be of 9600rpm for high duty pumps and 960/1450 rpm for low duty pumpsets. Casing and impeller should be of CI Gr. FG 260 :IS210 more preferably with hardened impeller. Shaft should be of stainless steel AISI 410. All the fasteners and bolts shall be of AISI 410. The submersible motor shall be operated with 3 ph, 415 V(+ or - 10 %), 50 Hz (+ or - 5 %) dry induction type. Motor shall be capable of giving rated output without reduction in the expected life span when operated continuously. The rotating assembly shall be dynamically balanced as per standards. The starting current of the motor shall not exceed 200% of rated full load current for Star / Delta or ATS starting under any circumstances. The motor shall be suitable for full voltage star delta / ATS starting. The locked rotor current of the motor shall not exceed 600% of full load current unless otherwise specified. Motor shall be designed to withstand 120 % of rated speed for two minutes without any mechanical damage, in either direction of rotation. The motor vibration shall be within the limit specified in applicable standards. Motor should be of IE2, explosion proof compatible for VFD operation together with star-Delta / ATS starter, protection against increase in stator winding temperature (15 deg Celsius), bearing temperature, leakage in the stator housing and terminal box shall be provided and to be suitably interlocked with the control panel for tripping the pump in case of increase in temperature beyond set limit.

Insulation class shall be of "Class H" and degree of protection shall be of IP 68 as per IS 4691. Motor shall be suitable for continuous operation in fully submerged or partially submerged condition. The pumpset shall be supplied with power cable of PVC insulated and PVC sheathed, copper, flexible, round type with required conductor size and number of cores as per starting method and of specified length for continuous use under water and air. The control cable of PVC insulated, PVC sheathed, flexible for stator winding temperature sensor 3 core x 1.5 sq.mm copper conductor and for bimetallic switches 2 core x 1.5 sqmm copper conductor shall be provided. Motor shall be supplied with 10 mts of round submersible copper cable of suitable size.

The non clog submersible pumpset shall be provided with suitable starter control panel having all protections as mentioned above. (upto 5 HP - DOL Starter, above 5 HP to 25 HP -Star Delta Panel and beyond 25 HP shall be ATS)

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|---|------|----------------------------|
| | 10 m upto 15 m head | | |
| 1 | Discharge Upto 20 M ³ /hour | 1 No | 458935 |
| 2 | Discharge 20 to 100 M ³ /hour | 1 No | 458935 |
| 3 | Discharge 100 to 200 M ³ /hour | 1 No | 484660 |
| 4 | Discharge 200 to 300 M ³ /hour | 1 No | 832463 |
| 5 | Discharge 300 to 400 M ³ /hour | 1 No | 1007393 |
| 6 | Discharge 400 to 500 M ³ /hour | 1 No | 1206758 |
| 7 | Discharge 500 to 600 M ³ /hour | 1 No | 1498594 |
| 8 | Discharge 600 to 700 M ³ /hour | 1 No | 1498594 |
| 9 | Discharge 700 to 800 M ³ /hour | 1 No | 1483482 |
| 10 | Discharge 800 to 900 M ³ /hour | 1 No | 1584378 |
| 11 | Discharge 900 to 1000 M ³ /hour | 1 No | 1981779 |
| 12 | Discharge 1000 to 1100 M ³ /hour | 1 No | 1949223 |
| | above 15m upto 20 m head | | |
| 13 | Discharge Upto 20 M ³ /hour | 1 No | 458935 |
| 14 | Discharge 20 to 100 M ³ /hour | 1 No | 458935 |
| 15 | Discharge 100 to 200 M ³ /hour | 1 No | 798428 |
| 16 | Discharge 200 to 300 M ³ /hour | 1 No | 872593 |
| 17 | Discharge 300 to 400 M ³ /hour | 1 No | 1120492 |
| 18 | Discharge 400 to 500 M ³ /hour | 1 No | 1206758 |
| 19 | Discharge 500 to 600 M ³ /hour | 1 No | 1498594 |
| 20 | Discharge 600 to 700 M ³ /hour | 1 No | 1498594 |
| 21 | Discharge 700 to 800 M ³ /hour | 1 No | 1483482 |
| 22 | Discharge 800 to 900 M ³ /hour | 1 No | 1584378 |
| 23 | Discharge 900 to 1000 M ³ /hour | 1 No | 1981779 |
| 24 | Discharge 1000 to 1100 M ³ /hour | 1 No | 1949223 |
| | above 20 m upto 25 m head | | |
| 25 | Discharge Upto 20 M ³ /hour | 1 No | 615949 |
| 26 | Discharge 20 to 100 M ³ /hour | 1 No | 612890 |
| 27 | Discharge 100 to 200 M ³ /hour | 1 No | 850985 |

| Sl.No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------|---|------|----------------------------|
| 28 | Discharge 200 to 300 M ³ /hour | 1 No | 967712 |
| 29 | Discharge 300 to 400 M ³ /hour | 1 No | 1211764 |
| 30 | Discharge 400 to 500 M ³ /hour | 1 No | 1369044 |
| 31 | Discharge 500 to 600 M ³ /hour | 1 No | 1981779 |
| 32 | Discharge 600 to 700 M ³ /hour | 1 No | 1981779 |
| 33 | Discharge 700 to 800 M ³ /hour | 1 No | 1949223 |
| 34 | Discharge 800 to 900 M ³ /hour | 1 No | 2143951 |
| 35 | Discharge 900 to 1000 M ³ /hour | 1 No | 2402971 |
| 36 | Discharge 1000 to 1100 M ³ /hour | 1 No | 2785562 |
| | above 25 m upto 30 m head | | |
| 37 | Discharge Upto 20 M ³ /hour | 1 No | 613155 |
| 38 | Discharge 20 to 100 M ³ /hour | 1 No | 850985 |
| 39 | Discharge 100 to 200 M ³ /hour | 1 No | 885971 |
| 40 | Discharge 200 to 300 M ³ /hour | 1 No | 1314469 |
| 41 | Discharge 300 to 400 M ³ /hour | 1 No | 1314469 |
| 42 | Discharge 400 to 500 M ³ /hour | 1 No | 1888305 |
| 43 | Discharge 500 to 600 M ³ /hour | 1 No | 1893647 |
| 44 | Discharge 600 to 700 M ³ /hour | 1 No | 1893647 |
| 45 | Discharge 700 to 800 M ³ /hour | 1 No | 2150691 |
| 46 | Discharge 800 to 900 M ³ /hour | 1 No | 2150691 |
| 47 | Discharge 900 to 1000 M ³ /hour | 1 No | 2360484 |
| 48 | Discharge 1000 to 1100 M ³ /hour | 1 No | 3100352 |

- Note :
- 1) The above rates are basic rates inclusive of transportation handling charges.
 - 2) GST extra applicable as per GO

**III (C) RATES FOR
ELECTRO MECHANICAL ITEMS**

III (C) RATES FOR ELECTROMECHANICAL ITEMS

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| 1 | Selector Switch for Panel Board /Cubical Panel Board/ Starter | | |
| a | Voltmeter Selector Switch - 6A | Each | 278.00 |
| b | Ammeter Selector Switch - 6A | Each | 536.00 |
| 2 | Multi Functions Meters - Flush type for M V Panel Board | | |
| a | LED type, CT/PT, Voltage, Current, Frequency, Kilowatt, Kilo Volt Ampere, KVAR , KVAH, Run Hours, unbalance(V,A),Rpm, Phase angles,Thd- Class 1 With RS 485 Port | Each | 17524.00 |
| b | LED type, CT/PT, Voltage, Current, Frequency, Kilowatt, Kilo Volt Ampere, KVAR , KVAH, Run Hours, unbalance(V,A), Rpm, Phase angles, Thd - Class 0.5 With RS 485 Port | Each | 21418.00 |
| 3 | Ammeter - Digital | | |
| a | 96 mm X 96 mm Single Phase Ammeter Class 1-5A | Each | 2463.00 |
| b | 96 mm X 96 mm Single Phase Ammeter Class 1-1A | Each | 2677.00 |
| c | 96 mm X 96 mm Three Phase Ammeter Class 1-5A | Each | 2998.00 |
| d | 96 mm X 96 mm Three Phase Ammeter Class 1-1A | Each | 3320.00 |
| 4 | Pressure Gauge only | | |
| a | 50 mm upto 60 kg/cm ² with s.s.case | Each | 621.00 |
| b | 50 mm Glycerine filled upto 400 kg/cm ² | Each | 1393.00 |
| c | 63 mm upto 60 kg/cm ² with s.s.case | Each | 643.00 |
| d | 63 mm Glycerine filled upto 400 kg/cm ² | Each | 1478.00 |
| e | 80 mm upto 60 kg/cm ² with s.s.case | Each | 835.00 |
| f | 80 mm Glycerine filled upto 400 kg/cm ² | Each | 2463.00 |
| g | 100 mm upto 60 kg/cm ² with s.s.case | Each | 1285.00 |
| h | 100 mm Glycerine filled upto 400 kg/cm ² | Each | 2998.00 |
| i | 150 mm upto 60 kg/cm ² with s.s.case | Each | 1553.00 |
| j | 150 mm Glycerine filled upto 400 kg/cm ² | Each | 3534.00 |
| k | 200 mm upto 60 kg/cm ² with s.s.case | Each | 3427.00 |
| l | 200 mm Glycerine filled upto 400 kg/cm ² | Each | 7604.00 |
| m | 250 mm upto 60 kg/cm ² with s.s.case | Each | 4284.00 |
| n | 250 mm Glycerine filled upto 400 kg/cm ² | Each | 8568.00 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|--------------------|-----------------------------|
| 5 | Mechanical Interlocking System for For M V Panel Board | | |
| a | 2 lock 1 key | Each | 2945.00 |
| b | 3 lock 2 key | Each | 5141.00 |
| 6 | Ammeter Analog | | |
| a | SR 65 5D/5A C.T.operated-AC | Each | 530.00 |
| b | SR 72 5D/5A C.T.operated-AC | Each | 687.00 |
| c | SR 96 5D/5A C.T.operated-AC | Each | 735.00 |
| 7 | Voltmeter - Digital | | |
| a | Voltmeter- Single Phase Class 1-AC | Each | 2463.00 |
| b | Voltmeter- Three Phase Class 1-AC | Each | 3320.00 |
| 8 | Voltmeter Analog | | |
| a | Voltmeter SR 65 600V-AC | Each | 580.00 |
| b | Voltmeter SR 72 500V-AC | Each | 760.00 |
| c | Voltmeter SR 96 600V-AC | Each | 841.00 |
| 9 | Fabrication & Supply of M V Cubical Panel board vermi proof box of MS sheet 20 SWG powder coated, door with 180 degree opening, poly urethane/rubber gaskets as per IE rules - 1m2 | | |
| a | Projection of 0.3 m | per m ² | 13386.00 |
| b | Projection of 0.45m | per m ² | 15528.00 |
| c | Projection of 0.6 m | per m ² | 20240.00 |
| 10 | Electro magnetic contactors of suitable capacity in AC Three Phase rating, conforming to IS/IEC 60947-4-1. | | |
| a | 9Amphs | No. | 754.00 |
| b | 12Amphs | No. | 876.00 |
| c | 18Amphs | No. | 1509.00 |
| d | 22Amphs | No. | 2497.00 |
| e | 25Amphs | No. | 3242.00 |
| f | 32Amphs | No. | 3957.00 |
| g | 40Amphs | No. | 4118.00 |
| h | 45Amphs | No. | 5092.00 |
| i | 50Amphs | No. | 5997.00 |
| j | 70Amphs | No. | 8062.00 |
| k | 80Amphs | No. | 10222.00 |
| l | 95Amphs | No. | 12889.00 |
| m | 110Amphs | No. | 15528.00 |
| n | 140Amphs | No. | 20493.00 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| o | 185Amphs | No. | 24655.00 |
| p | 225Amphs | No. | 27142.00 |
| q | 250Amphs | No. | 30618.00 |
| r | 300Amphs | No. | 36917.00 |
| s | 400Amphs | No. | 46940.00 |
| t | 550Amphs | No. | 67315.00 |
| u | 650Amphs | No. | 100733.00 |
| 11 | Overload Relays: Directly operated Bimetallic Thermal overload relay which operates in case of overload and also in case of under voltage with manual and auto reset mode. | | |
| a | Upto 5 A | No. | 1208.00 |
| b | 5 A to 10 A | No. | 1363.00 |
| c | 10 A to 20 A | No. | 1557.00 |
| d | 20 A to 30 A | No. | 2045.00 |
| e | 30 A to 50 A | No. | 2726.00 |
| f | 50 A to 75 A | No. | 4382.00 |
| g | 75 A to 110 A | No. | 5841.00 |
| h | 110 A to 150 A | No. | 7788.00 |
| i | 150 A to 200 A | No. | 9248.00 |
| j | 200 A to 300 A | No. | 10709.00 |
| 12 | Preventer – Single Phasing | | |
| | Electric Motor protection device against single phasing. The device should protect the motor against single phasing, reverse phasing and unbalance supply. The device should be suitable for any device and have provisions for mounting in panel boards. Operate without need of any auxiliary supply. | No. | 1050.00 |
| 13 | Preventer – Dry Run | | |
| | Electric Motor protection device against dry running. The device should protect the motor against Dry running. The device should be suitable for any device and have provisions for mounting in panel boards. Operate without need of any auxiliary supply | No. | 1470.00 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|----------|-----------------------------|
| 14 | Erection of Power Pumpset | | |
| a | Labour Charges for erection of Horizontal shaft, centrifugal pumpset (Coupled/Monoblock) in bore well/Open well including fixing of suction pipe and foot valve upto a maximum depth of 7 metres and delivery pipes to the required length with valves, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPIC switches starter, Voltmeter, Ammeter, Capacitor single phasing preventor and laying and jointing the cables and twin earthing as per IE rules including providing bed blocks etc., complete and operating the pumps and trial run for 10 days including signing of completion of reports as required by EB authorities. | | |
| i | Above 20 HP to 30 HP | 1 No. | 10120.00 |
| ii | Above 30 HP to 40 HP | 1 No. | 13110.00 |
| iii | Above 40 HP to 50 HP | 1 No. | 18285.00 |
| b | Labour charges for the erection of submersible pumpset in borewell/openwell including fixing and jointing submersible cable with proper clamps upto the starter to required depth and also fixing of riser pipes to the required depth valves erection clamps, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPICN switches starter, Voltmeter, Ammeter, three pilot (indicating) lamps capacitor single phasing preventor, water level guard and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumpset and trail run for 10 days. | | |
| i | Above 20 HP to 30 HP | 1 No. | 11270.00 |
| ii | Above 30 HP to 40 HP | 1 No. | 14375.00 |
| iii | Above 40 HP to 50 HP | 1 No. | 18975.00 |
| 15 | Hire charges for Centrifugal sludge removal pumpset with fuel and crew charges including transportations, fixing and dismantling. | | |
| a | Upto 2 HP | per hour | 190.00 |
| b | Above 2 HP to 5 HP | per hour | 247.00 |

- Note :
- 1) The above rates are basic rates.
 - 2) GST extra applicable as per GO

III (D) RATES FOR BUILDING MATERIALS

BUILDING MATERIALS

1. Cement - Rs. 5,530/- per metric tonne
(Rupees Five Thousand and Five Hundred, thirty only)

The above rate for cement is basic rate and GST extra applicable as per GO. Necessary lead charges (i.e. excluding loading and unloading charges), as applicable as per conveyance table, may be allowed from the Dealer's Godown / stockyard to the site of work, if duly certified by an Officer not below the rank of Assistant Executive Engineer.

However, in the case, if the source is specified as "Stockyard" the same shall be decided and approved by the Superintending Engineers concerned.

2. Steel Rods of all sizes - Rs.44,190/- per metric tonne
(Rupees Forty Four Thousand and One Hundred and Ninety only)

The above rate for steel is basic rate and GST extra applicable as per G.O. Necessary lead charges (i.e. excluding loading and unloading charges), as applicable as per conveyance table, may be allowed from the Dealer's Godown / stockyard to the site of work, if duly certified by an Officer not below the rank of Assistant Executive Engineer.

However, in the case, if the source is specified as "Stockyard" the same shall be decided and approved by the Superintending Engineers concerned.

(The above rates are subject to revision as and when revised by the PWD authorities)

BUILDING MATERIALS

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|-----------|---|-----------|----------------------------------|
| 1 | Bricks-II Class Table Moulded (Chamber burnt) | | |
| a. | 9" x 4 1/2" x 3" | 1000 Nos. | 7085.00 |
| b. | 9" x 4 3/8" x 2 3/4" | 1000 Nos. | 6810.00 |
| 2 | Bricks-II Class (Ground Moulded Chamber burnt) | | |
| a. | 9" x 4 1/2" x 3" | 1000 Nos. | 6100.00 |
| b. | 9" x 4 3/8" x 2 3/4" | 1000 Nos. | 5925.00 |
| 3 | Bricks-III Class (Country Bricks, Kiln burnt) | | |
| a. | 22 x 11 x 5 cm (8 3/4" x 4 1/4" x 2") | 1000 Nos. | 3865.00 |
| b. | 22 x 11 x 5.7 cm (8 3/4" x 4 1/4" x 2 1/4") | 1000 Nos. | 4035.00 |
| c. | 22 x 11 x 7cm (8 3/4" x 4 1/4" x 2 3/4") | 1000 Nos. | 5130.00 |
| 4 | Fly Ash bricks | | |
| a. | 230 x 110 x 70mm | 1000 Nos. | 5925.00 |
| b. | 230 x 110 x 75mm | 1000 Nos. | 6100.00 |
| 5 | Bricks Country (specially moulded for well steining) | | |
| a. | 8 3/4" x 4 1/4" x 2" | 1000 Nos. | 2275.00 |
| b. | Perforated Bricks 19 x 9 x 9cm | 1000 Nos. | 3465.00 |
| c. | Terrace Bricks 15 x 7.5 x 2.5cm | 1000 Nos. | 890.00 |
| | New Items for Heritage Works | | |
| 6 | Special Bricks 8" x 4" x 2" for Heritage works | 1000 Nos. | 12000.00 |
| 7 | Terrace Bricks 6" x 3" x 1" for Heritage works | 1000 Nos. | 9000.00 |
| 8 | Wire cut Bricks for Heritage works | | |
| a. | Size 9" x 4" x 3" | 1000 Nos. | 12000.00 |
| b. | Size 9" x 4" x 2" | 1000 Nos. | 10000.00 |
| c. | Size 9" x 6.5" x 2" | 1000 Nos. | 15000.00 |
| 9 | Flat Tiles | | |
| a. | 15cm x 15cm x 12mm | 1000 Nos. | 745.00 |
| b. | 15cm x 15cm x 20mm | 1000 Nos. | 884.00 |
| 10 | Brick Jelly | | |
| a. | 40mm size | cu.m. | 635.00 |
| b. | 20mm size | cu.m. | 707.00 |
| 11 | Pressed Tiles | | |
| a. | 20cm x 20cm x 2cm | 1000 Nos. | 10400.00 |
| b. | 23cm x 23cm x 2cm | 1000 Nos. | 14750.00 |
| 12 | Pan Tiles | | |
| a. | 23cm x 8cm x 1.7cm | 1000 Nos. | 405.00 |
| b. | 16.5cm x 8cm x 1.7cm | 1000 Nos. | 334.00 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|-----------|---|-----------|----------------------------|
| 13 | Best Mangalore Tiles | | |
| a. | 1 st Class 'A' | 1000 Nos. | 9700.00 |
| b. | Class 'AA' | 1000 Nos. | 9900.00 |
| c. | Best Mangalore Ridge Tiles | 1000 Nos. | 28400.00 |
| d. | Best Mangalore Ceiling Tiles | 1000 Nos. | 5970.00 |
| e. | Best Mangalore Glass Roofing Tiles | Each | 280.00 |
| f. | Best Mangalore Ventilating Tiles (Single) | Each | 42.60 |
| g. | Best Mangalore Ventilating Tiles (Double) | Each | 53.40 |
| 14 | Mosaic Flooring tiles GREY | | |
| a. | 25cm x 25cm x 2cm | 1000 Nos. | 10900.00 |
| b. | 20cm x 20cm x 2cm | 1000 Nos. | 6970.00 |
| 15 | Mosaic (other colour) | | |
| a. | 25cm x 25cm x 2cm | 1000 Nos. | 15050.00 |
| b. | 20cm x 20cm x 2cm | 1000 Nos. | 8880.00 |
| c. | Mosaic (Green)Tile 20cm x 20cm x 2cm | 1000 Nos. | 10900.00 |
| d. | Mosaic (Green) Tile 25cm x 25cm x 2cm | 1000 Nos. | 17100.00 |
| e. | Mosaic Chequered Tile of Grey colour size 25 cm x 25 cm x 2 cm | 1000 Nos. | 13700.00 |
| | New Items for Heritage Works | | |
| | Attangudi Tiles for Heritage Works | | |
| | Size 8" x 8" x 3/4" | Each | 25.00 |
| | Size 10" x 10" x 3/4" | Each | 30.00 |
| | Stone and Road materials | | |
| 16 | Rough stone for Masonry works (Hard Granite) | cu.m. | 413.00 |
| 17 | Rough stone for revetment works | cu.m. | 358.00 |
| 18 | Jeddy size for revetment (Hard granite) | cu.m. | 393.00 |
| 19 | Cut stone pillar of size 0.15 x 0.15 x 2.1M | Each | 153.00 |
| 20 | From boulders without blasting for revetment | cu.m. | 105.00 |
| 21 | From boulders without blasting for masonry | cu.m. | 137.00 |
| 22 | Course Rubble stone for masonry works | cu.m. | 330.00 |
| 23 | Course Rubble stone for Arch works | cu.m. | 358.00 |
| 24 | Chisel dressed stone | | |
| a. | 70cm x 30cm x 29cm | Each | 163.00 |
| b. | 37cm x 30cm x 29cm | Each | 147.00 |
| 25 | Hammer dressed stone | | |
| a. | 37cm x 30cm x 29cm | Each | 114.00 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|---|-------|----------------------------|
| 26 | Cut stone fully dressed to size on all faces | cu.m. | 5900.00 |
| 27 | Cut stone roughly dressed | cu.m. | 4060.00 |
| 28 | Ashlar arch stone fully dressed to size all faces | cu.m. | 4480.00 |
| 29 | Flooring stone SS size (not less than 10cm thick) | sq.m. | 328.00 |
| 30 | Stone slab for culvert (3 faces, one line dressed) | | |
| a. | Above 1.2m | cu.m. | 4275.00 |
| b. | Up to 1.2m | cu.m. | 3885.00 |
| 31 | Stone slab for culvert (3 faces, two line dressed) | cu.m. | 4760.00 |
| 32 | For lintel coping (3 faces, two line dressed) | cu.m. | 4760.00 |
| 33 | Bond stones | cu.m. | 595.00 |
| 34 | Kilometre stone 1.65 x 0.45 x 0.15m | Each | 407.00 |
| 35 | Hecta metre stone | | |
| a. | 0.90 x 0.10 x 0.10m | Each | 114.00 |
| b. | 0.75 x 0.23 x 0.10m | Each | 208.00 |
| c. | 0.90 x 0.15 x 0.15m | Each | 204.00 |
| 36 | Demarcation stone (Two line dressed for top 30cm) | | |
| a. | 0.75 x 0.15 x 0.15m | Each | 85.00 |
| b. | 0.90 x 0.23 x 0.23m | Each | 109.00 |
| c. | 0.75 x 0.23 x 0.23m | Each | 101.00 |
| d. | 0.90 x 0.15 x 0.15m | Each | 93.00 |
| e. | Demarcation Stone with letters cut 0.75 x 0.15 x 0.15m | Each | 114.00 |
| f. | Edge stone 0.45 x 0.15 x 0.15m | Each | 52.00 |
| g. | T.R.S. Bench Mark Stone neatly dressed the exposed surface to a height of 15cm including cutting letters | | |
| i) | 0.15 x 0.15 x 0.60m | Each | 131.00 |
| ii) | 0.10 x 0.10 x 0.25m | Each | 95.00 |
| 37. a. | Guard Stone (Two line dressed for 45cm) 23cm dia 1.0m long | Each | 151.00 |
| b. | Guard stone (Top 0.70m chisel dressed and 0.50m bottom roughly dressed) 0.23m x 0.23m x 1.20m long (Two line dressed top 45cm) 23cm dia 1.0m long | Each | 161.00 |
| c. | Guard stone (Top 0.70m chisel dressed and 0.50m bottom roughly dressed) 0.23m x 0.23m x 0.9m long (Two line dressed top 45cm) 23cm dia 0.90m long | Each | 151.00 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|-------------|--|-------|----------------------------|
| d. | Guard stone (Top 0.70m chisel dressed and 0.50m bottom roughly dressed) 0.15m x 0.15m x 0.90m long (Two line dressed top 45cm) 23cm dia 0.90m long | Each | 105.00 |
| e. | Guard stone 90cm long 23cm dia | Each | 78.00 |
| 38 | Hard broken Granite stone jelly (I.S.S.) machine crushed / Hand broken. | | |
| i. | 90mm size | cu.m. | 399.00 |
| ii. | 80mm size | cu.m. | 446.00 |
| iii. | 63mm size | cu.m. | 515.00 |
| iv. | 50mm size | cu.m. | 598.00 |
| v. | 40mm size | cu.m. | 929.00 |
| vi. | 25mm size | cu.m. | 799.00 |
| vii. | 20mm size | cu.m. | 1293.00 |
| viii. | 12mm size | cu.m. | 1200.00 |
| ix. | 10mm size | cu.m. | 883.00 |
| x. | 6mm size | cu.m. | 598.00 |
| xi. | 3mm size | cu.m. | 538.00 |
| 39 | Quartz metal | | |
| i. | 50mm | cu.m. | 90.00 |
| ii. | 40mm | cu.m. | 91.00 |
| 40 | Soft broken stone | | |
| i. | 63mm | cu.m. | 69.00 |
| ii. | 40mm | cu.m. | 78.00 |
| 41 | Laterite 40mm to 75mm size | cu.m. | 90.00 |
| 42 | Kankar 40mm to 75mm size | cu.m. | 90.00 |
| 43.a | Soling stones 15cm cube (un blasted) | cu.m. | 105.00 |
| b. | Soling stones 15cm cube (blasted) | cu.m. | 172.00 |
| 44.a | Gravel | cu.m. | 188.00 |
| b. | Well Gravel | cu.m. | 154.00 |
| c. | Screened Kankar Gravel | cu.m. | 113.00 |
| 45.a | Quarry rubbish | cu.m. | 89.00 |
| b. | Stone dust | cu.m. | 114.00 |
| c. | Pond Ash (wet /dry) | cu.m. | 88.00 |
| d. | Crushed Stone Sand (M-Sand) | cu.m. | 777.00 |
| e. | Plastering sand (P- Sand) | cu.m. | 883.00 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|---|-------|----------------------------|
| 46 | Sand for Mortar | cu.m. | 168.00 |
| 47 | Sand for Filling | cu.m. | 168.00 |
| 48 | Clay for puddle and masonry | cu.m. | 35.00 |
| 49. i) | Cuddapah slab 50mm thick | sq.m | 390.00 |
| ii) | Cuddapah slab 38mm/40mm thick | sq.m | 376.00 |
| iii) | Cuddapah slab 20mm/30mm thick | sq.m | 346.00 |
| | LIME | | |
| 50 | Shell Lime (Slacked and screened) | cu.m. | 1248.00 |
| 51 | Freshly Slacked and Screened Burnt Lime Stone | cu.m. | 919.00 |
| 52 | Stone Lime or Lime Metal | cu.m. | 80.00 |
| | TIMBER AND ROOFING MATERIALS | | |
| 53 | Teakwood scantlings (over 3m for joists and rafters) Malabar | cu.m. | 111092.00 |
| 54 | Teakwood scantlings (for tiebeams and principal rafters) - Malabar | cu.m. | 109258.00 |
| 55 | Teakwood scantlings (over 2m and below 3m in length) Malabar | cu.m. | 106376.00 |
| 56 | Teakwood scantlings(below 2m in length) - Malabar | cu.m. | 94672.00 |
| | New Items for Heritage Works | | |
| | Unslaked Pollachi Lime for Heritage Works | cu.m. | 9750.00 |
| 57 | Teakwood planks | | |
| i) | Over 45cm wide and 12mm thick. | cu.m. | 117293.00 |
| ii) | Over 30cm and up to 45cm wide and 12mm thick | cu.m. | 108908.00 |
| iii) | Over 30cm and up to 45cm wide and 12mm to 25mm thick | cu.m. | 101921.00 |
| iv) | Over 30cm and up to 45cm wide and 25mm to 40mm thick | cu.m. | 97729.00 |
| v) | Over 15cm and up to 30cm wide and 12mm thick | cu.m. | 95197.00 |
| vi) | Over 15cm and up to 30cm wide and 12mm to 25mm thick | cu.m. | 90480.00 |
| vii) | Over 15cm and upto 30cm wide and 25mm to 40mm thick | cu.m. | 88734.00 |
| viii) | Up to 15cm wide and 12mm thick | cu.m. | 86987.00 |
| ix) | Up to 15cm wide and 12mm to 25mm thick | cu.m. | 86987.00 |
| x) | Up to 15cm wide and 25mm to 40mm thick | cu.m. | 82183.00 |
| | New Items for Heritage Works | | |
| | Seasoned Teakwood for Scantling and Planks for Heritage Works | | 176415.00 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|--------------|--|----------|----------------------------|
| 58 | Teak Wood Reepers | | |
| i) | 50mm x 25mm | RM | 72.60 |
| ii) | 50mm x 12mm | RM | 59.00 |
| 59 | Country wood Scantlings | | |
| i) | Up to 4m in length | cu.m. | 32751.00 |
| ii) | Over 4m in length | cu.m. | 34498.00 |
| 60 | Country wood scantlings (for tiebeams and principal rafters for trusses) | cu.m. | 34498.00 |
| 61 | Jack wood Scantlings (up to 4m) | cu.m. | 36157.00 |
| 62 | Silver Oak Scantling | cu.m. | 14847.00 |
| 63 | Country wood planks | | |
| i) | 40mm thick- upto 30cm wide | cu.m. | 37555.00 |
| ii) | 25mm thick - up to 30cm wide | cu.m. | 37555.00 |
| iii) | 40mm thick - over 30cm wide | cu.m. | 37555.00 |
| iv) | 25mm thick - over 30cm wide | cu.m. | 37555.00 |
| 64.a. | Jack wood planks 25 to 40mm thick | cu.m. | 39389.00 |
| b. | Silver Oak plank (40mm thick) | cu.m. | 16856.00 |
| c. | Blue gum plank | cu.m. | 17293.00 |
| 65 | Country wood reepers | | |
| a. | 50mm x 25mm | RM | 33.00 |
| b. | 50mm x 12mm | RM | 23.80 |
| 66 | Mango Plank | cu.m. | 15983.00 |
| 67.a. | Palmyrah rafter (50mm to 60mm wide and 125mm depth) | RM | 47.15 |
| b. | Palmyrah leaves | 100 Nos. | 243.60 |
| c. | Palmyrah leaves (Labour for cutting) | 100 Nos. | 38.30 |
| 68 | Casurina Poles | | |
| a. | 13cm to 15cm diameter | RM | 31.50 |
| b. | 10cm to 13cm diameter | RM | 24.00 |
| c. | 8cm to 10cm diameter | RM | 18.30 |
| d. | 5cm to 8cm diameter | RM | 16.70 |
| 69 | Eucalyptus Poles | | |
| a. | 13cm to 15cm dia | RM | 31.50 |
| b. | 10cm to 13 cm dia | RM | 22.50 |
| c. | 8 cm to 10 cm dia | RM | 18.30 |
| d. | 5 cm to 8 cm dia | RM | 15.70 |
| e. | Below 5 cm | RM | 14.30 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|--|-------|----------------------------|
| 70 | Eucalyptus Bullies 4cm to 5 cm dia & cross ties | RM | 11.50 |
| 71 | Casurina Bullies 4cm to 5cm dia & cross ties | RM | 12.90 |
| 72 | Bamboo large | | |
| i) | 10cm diameter and above | RM | 11.50 |
| ii) | 7.5cm to 10cm diameter | RM | 10.10 |
| | METAL AND IRON ITEMS | | |
| 73 | Mild steel plates or sheets BG 10 | Kg. | 40.50 |
| 74 | Mild Steel Angles 25mm x 25mm x 3mm | Kg. | 40.50 |
| 75.a) | Binding wire (Black 18G) | Kg. | 43.00 |
| b) | Binding wire (Galvanised – 18G) | Kg. | 43.00 |
| 76 | G.I. sheets 30cm wide and 1.6mm thick | sq.m. | 299.00 |
| 77 | Weld mesh | | |
| i) | 7.5 x 2.5cm, 10 gauge | sq.m. | 290.00 |
| ii) | 7.5cm x 5cm, 10 gauge | sq.m. | 260.00 |
| iii) | 10cm x 10cm, 10 gauge | sq.m. | 141.00 |
| 78 | Chicken Mesh | sq.m. | 31.10 |
| 79 | Fly Proof Mesh | sq.m. | 89.50 |
| 80 | Supplying mild steel grills for windows, ventilators, etc., including priming coat | Kg. | 53.60 |

Note:

1. For Road works, the Schedule of Rates of Highways Department may be adopted in respect of materials for which rates are not available in this schedule of rates.
2. For all the materials viz. Bricks and Tile products, Stone Jelly, Gravel, Sand, Lime Stone etc., necessary incidental charges, loading charges and unloading charges have been included in the basic cost of materials listed above. Hence no separate incidental charges, loading and unloading charges shall be allowed for the above materials.
3. The above rate is exclusive of all tax and GST.

**III (E) RATES FOR OTHER
CONSTRUCTION MATERIALS**

RATES OF OTHER CONSTRUCTION MATERIALS

Note : No extra on cost, conveyance charges shall be allowed for all the items included under this category. The rates approved therein are applicable at site of work.

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|-----------|---|-------|----------------------------|
| 1 | Water proofing compound | Kg | 39.60 |
| 2 | Mild Steel Flats of all sizes | Kg | 39.75 |
| 3 | Mild Steel Square Rods of all sizes | Kg | 39.75 |
| 4 | First Quality Design Ceramic tiles of All colours | | |
| i | 305 mm x 305 mm x 6 mm | Each | 45.00 |
| ii | 200 mm x 200 mm x 6 mm | Each | 19.80 |
| iii | 200 mm x 100 mm x 6 mm | Each | 10.70 |
| 5 | First Quality Plain ceramic tiles of all colours | | |
| i | 305 mm x 305 mm x 6 mm | Each | 32.20 |
| ii | 200 mm x 200 mm x 6 mm | Each | 14.40 |
| iii | 200 mm x 100 mm x 6 mm | Each | 7.40 |
| 6 | First quality White glazed tiles | | |
| i | 150 mm x 150 mm x 6 mm | Each | 7.70 |
| ii | 100 mm x 200 mm x 6 mm | Each | 6.70 |
| 7 | First quality colour glazed tiles | | |
| i | 150 mm x 150 mm x 6 mm | Each | 8.90 |
| ii | 100 mm x 200 mm x 6 mm | Each | 7.70 |
| 8 | First quality colour glazed tiles with printed design | | |
| i | 150 mm x 150 mm x 6 mm | Each | 10.50 |
| ii | 100 mm x 200 mm x 6 mm | Each | 9.50 |
| 9 | White Cement | Kg | 22.00 |
| 10 | Colour Cement (White cement mixed with colouring pigments) | Kg | 25.40 |
| 11 | Multi-colour marble chips of all Grades / Sizes | Bag | 84.40 |
| 12 | White Marble slab (Adanga) 18 mm to 20 mm thick | | |
| i | 4'0" x 2'0" and above | sq.m. | 1300.00 |
| ii | 2'0" x 2'0" or 2'0" x 1'0" or 1'0" x 1'0" | sq.m. | 650.00 |
| 13 | Granite tiles - (Superfine polished with Machine cut edges) of size 2'0" x 1'0" or 1'0" x 1'0" or 1'0" x 0'6", of 10 mm thick | | |
| a | Jet Black | sq.m. | 804.00 |
| b | Ruby Red, Raw Silk | sq.m. | 720.00 |
| c | Sinthetic Grey, Paradise and Similar varieties. | sq.m. | 680.00 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|---|-------|----------------------------|
| 14 | Granite slabs (Super fine polished with machine cut edges) of sizes 4'x2' and above 18mm to 20mm thick. | | |
| a | Jet Black | sq.m. | 1615.70 |
| b | Ruby Red, Raw Silk | sq.m. | 1506.60 |
| c | Sinthetic Grey, Paradise and Similar varieties. | sq.m. | 1355.00 |
| | New Items | | |
| d | Fine polished Steel Grey Granite Slab 1200mm x 600mm, 16mm to 18mm thick | sq.m. | 1400.00 |
| e | Fine polished Blue Pearl Granite Slab 1200mm x 600mm, 16mm to 18mm thick | sq.m. | 7000.00 |
| 14 (1)a | Flamed Steel Grey Granite Slab 1200mm x 600mm, 16mm to 18mm thick | sq.m. | 1700.00 |
| 14 (1)b | Flamed Ruby Red Granite Slab 1200mm x 600mm, 16mm to 18mm thick | sq.m. | 1800.00 |
| 15 | Polished shahabad stone slabs of 20 mm thick with machine cut edges of size 2' 0" x 2'0" and above. | sq.m. | 350.00 |
| 16 | Polished shahabad stone slabs 20 mm thick with machine cut edges of size below 2' 0" x 2'0". | sq.m. | 295.00 |
| 17 | Polished Rajasthan Kota stone slabs of 20 mm thick with machine cut edges of size 2' 0" x 2'0" and above. | sq.m. | 510.00 |
| 18 | Polished Rajasthan Kota stone slabs of 20 mm thick with machine cut edges of size below 2'0" x 2'0". | sq.m. | 450.00 |
| 19 | Dolphur stone slabs - semi polished with machine cut edges of all sizes | | |
| a | 40 mm thick | sq.m. | 389.00 |
| b | 20 mm thick | sq.m. | 355.00 |
| 20 | Aluminium strips of size 40 mm wide x 1.5 mm thick | RM | 32.30 |
| 21 | Brass strips of size 40 mm wide x 1.5 mm thick | RM | 64.10 |
| 22 | Glass strips of size 40 mm wide and 4 mm thick | RM | 14.60 |
| 23 | Marblex Tiles 3 mm thick | sq.m. | 633.00 |
| 24 | Red Oxide - Superior quality for floor finish | Kg | 135.00 |
| 25 | Decorative pressed tiles of 12 mm thick of all sizes and shapes | sq.m. | 999.00 |
| 26 | Exterior Emulsion Paint - Water based primer (Liquid) | Litre | 140.00 |
| 27 | Alkali Resistant Distemper Primer | Litre | 125.50 |
| 28 | Sandtex matt | Litre | 146.80 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|---|----------|----------------------------|
| 29 | Vinaratex or equivalent Textured coat | sq.m. | 189.50 |
| 30 | Best Lac Polish / French Polish | Litre | 245.00 |
| 31 | Varnish | Litre | 251.90 |
| 32 | Cotton Waste | Kg | 9.70 |
| 33 | Cement based Hydraulically pressed Anti skid tiles (pattern design) - 20 mm thick | sq.m. | 473.00 |
| 34 | Marble Powder | Kg | 4.28 |
| 35 | Polishing Stone | | |
| i | Rough | Each | 59.30 |
| ii | Medium | Each | 83.00 |
| iii | Fine / Nice | Each | 95.00 |
| 36 | Oxalic Acid | Kg | 36.00 |
| 37 | Turpentine | Litre | 22.00 |
| 38 | Mansion polish | 400 gram | 138.00 |
| 39 | Poly Sulphide | Kg | 163.80 |
| 40 | Primer for expansion joints | Kg | 140.90 |
| 41 | Filler material | sq.m. | 134.30 |
| 42 | Bond Breaker | RM | 3.50 |
| 43 | PVC Water Bar 150mm wide with single bulb | RM | 267.00 |
| 44 | Plain G.I. sheet 0.8mm thick (22 Gauge) | sq.m. | 338.00 |
| 45 | Phil Plug | Each | 4.70 |
| 46 | G.I. Screws | | |
| i | 30mm x 6mm | Each | 1.20 |
| ii | 19mm x 6mm | Each | 0.75 |
| 47 | G.I. Limpet / Cup Washers | Each | 1.75 |
| 48 | Bitumen washers 15mm dia | Each | 1.05 |
| 49 | Asbestos Cement pipe - 100mm dia | 3 RM | 133.30 |
| 50 | A.C. shoe - 100mm dia | Each | 42.30 |
| 51 | A.C. Bend - 100mm dia | Each | 48.40 |
| 52 | A.C. Cylindrical Cowl - 100mm dia | Each | 72.70 |
| 53 | C.I. Brackets for A.C. pipe 100mm dia | Each | 18.60 |
| 54 | C.I. Grating - 100mm dia | Each | 29.80 |
| 55 | Asbestos cement fully corrugated sheet - 6mm thick | sq.m. | 175.50 |
| 56 | Asbestos cement plain sheet | | |
| i | 6mm thick | sq.m. | 157.50 |
| ii | 4mm thick | sq.m. | 109.10 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|---|------|----------------------------|
| 57 | Asbestos cement adjustable ridges | Pair | 181.70 |
| 58 | G.I. "J" or "L" Bolts with nuts 6mm Dia | Each | 3.65 |
| 59 | Steel - special extruded sections for steel windows and ventilators conforming to I.S.S. 7452 / 1990 including Fabrication charges | Kg | 58.00 |
| 60 | CRCA pressed steel Box section 18 Gauge or 1.25mm thick for Door frames including providing holes and fixing wooden blocks for fixing furniture and fittings | | |
| a | With one coat of Red oxide priming coat. | RM | 334.00 |
| b | With powder coated primer | RM | 356.00 |
| 61 | Aluminium extruded sections (for Doors, windows, ventilators, partitions, false ceiling etc.) including charges for Anodising for 15 micron thickness | | |
| a | Natural colour matt finish. | Kg | 287.00 |
| b | With powder coating of any colours. | Kg | 307.00 |
| 62 | Aluminium Extruded Box Section for Staircase Hand Rails including charges for Anodising for 15 micron thickness - Natural colour matt finish | Kg | 359.00 |
| 63 | Rubber beading for aluminium glazed doors | RM | 35.50 |
| 64 | Rubber beading for aluminium glazed windows. | RM | 27.10 |
| 65 | PVC / Woollen felt for aluminium doors 6mm thick | RM | 7.20 |
| 66 | Pivot for Aluminium Door | Set | 146.00 |
| 67 | Hydraulic Door closer of various sizes of approved quality using Aluminium Extruded section body tubular type universal hydraulic door closer with double speed adjustment like HARDWYN (make) 'GAZEL' (or) equivalent (with ISI Monogram) | Each | 890.00 |
| 68 | Hydraulic Floor springs of various sizes double acton hydraulic floor spring of approved quality, brand, manufacture as per BIS standards for doors including cost of cutting floors as required, embedding in to floors and Stainless Steel Cover plates with Aluminium Pivot and single piece M.S. sheet outer box with side plate etc., capable of taking upto 130 Kg. weight from door shutter, like HARDWYN make (U-32) or its equivalent with ISI monogram. | Each | 1940.00 |
| 69 | Lock for Aluminium doors | Each | 251.00 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|--|-------|----------------------------|
| 70 | Lock for Aluminium sliding windows | Each | 62.80 |
| 71 | Aluminium Grill of standard pattern (diamond shape) - 10mm thick including 'F' (or) 'H' Section. | sq.m. | 1835.00 |
| 72 | Aluminium Grill of standard pattern (diamond shape) - 6mm thick including 'F' (or) 'H' Section. | sq.m. | 1485.00 |
| 73 | Bolts and Nuts 10mm dia for false ceiling | Each | 5.30 |
| 74 | Rawl Plugs for false ceiling | Each | 8.90 |
| 75 | PVC Roller for sliding windows | Each | 13.10 |
| 76 | Synthetic Resin - Fevicol or equivalent (Phenol Formal Dehide based Resin) | Kg | 185.00 |
| 77 | Butt Hinges with nylon washers of various sizes. Length and width (with required screws). | | |
| a | 125mm x 30mm | Each | 74.70 |
| b | 100mm x 30mm | Each | 59.90 |
| c | 75mm x 30mm | Each | 41.20 |
| d | 50mm x 30mm | Each | 33.20 |
| 78 | Tower Bolts of various lengths and diameter (with required screws) | | |
| a | 400mm long and 12mm dia | Each | 141.30 |
| b | 300mm long and 12mm dia | Each | 108.70 |
| c | 250mm long and 12mm dia | Each | 81.50 |
| d | 200mm long and 12mm dia | Each | 68.50 |
| e | 150mm long and 12mm dia | Each | 54.00 |
| f | 100mm long and 10mm dia | Each | 47.50 |
| g | 75mm long and 10mm dia | Each | 33.20 |
| 79 | Aldrops of following lengths and diameter with required screws, bolts and nuts. | | |
| a | 300mm long and 16mm dia | Each | 174.70 |
| b | 250mm long and 16mm dia | Each | 150.70 |
| c | 200mm long and 16mm dia | Each | 102.00 |
| d | 200mm long and 12mm dia | Each | 84.70 |
| 80 | Handles "D" type of various sizes with required screws | | |
| a | 200mm long | Each | 53.60 |
| b | 150mm long | Each | 48.00 |
| c | 100mm long | Each | 29.50 |
| 81 | Ornamental handles of various sizes with required screws | | |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|---|-------|----------------------------|
| a | 200mm long | Each | 138.00 |
| b | 150mm long | Each | 92.00 |
| c | 100mm long | Each | 50.80 |
| 82 | Aluminium door stopper with rubber bush with required screws | Each | 43.80 |
| 83 | Rubber bush - 40 mm dia and 60 mm long with required screws | Each | 21.50 |
| 84 | Mortice Lock-(Godrej or equivalent) with required screws with 3 Keys | | |
| a | With night latch | Each | 500.00 |
| b | Without night latch | Each | 373.00 |
| c | Wire nails | Kg | 59.30 |
| 85 | Teakwood beading | | |
| a | 15mm x 12mm | RM | 14.30 |
| b | 35mm x 12mm | RM | 36.30 |
| 86 | Teakwood Beading (ordinary) | | |
| a | 30mm x 12mm | RM | 30.10 |
| b | 25mm x 12mm | RM | 24.20 |
| 87 | Teakwood beading - Ornamental / design | | |
| a | 40mm x 12mm | RM | 84.70 |
| b | 40mm x 15mm | RM | 97.00 |
| c | 25mm x 12mm | RM | 66.30 |
| d | 15mm x 12mm | RM | 45.70 |
| 88 | Medium Density Fibre (MDF) Board - Exterior Grade, Both sides pre-laminated including external lipping with kiln dried soft wood 35mm thick | sq.m. | 2020.00 |
| 89 | Medium Density Fibre (MDF) Board - exterior Grade - Both sides pre-laminated, 12mm thick | sq.m. | 973.00 |
| 90 | MDF Board exterior Grade - Plain including external lipping with kiln dried soft wood | | |
| i | 35mm thick | sq.m. | 1648.00 |
| ii | 30mm thick | sq.m. | 1520.00 |
| 91 | Medium density fibre (MDF) Board 12 mm thick Exterior grade - with melamine finish. | | |
| a | One side melamine finish | sq.m. | 1030.00 |
| b | Both sides melamine finish | sq.m. | 1160.00 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|---|-------|----------------------------|
| 92 | Medium density fibre (MDF) board - Exterior grade - Plain - With teak wood external lipping around | | |
| a | 35mm thick | sq.m. | 1775.00 |
| b | 30mm thick | sq.m. | 1575.00 |
| 93 | Solid core Flush shutters with Teak ply on both side with teak wood lipping around 35 mm thick | sq.m. | 2090.00 |
| 94 | Solid core Flush shutters with Teak ply on one side and commercial ply on other side with teak wood lipping around 35 mm thick | sq.m. | 1835.00 |
| 95 | Solid core Flush shutters with commercial ply on both side with teak wood lipping around 35 mm thick | sq.m. | 1575.00 |
| 96 | Solid PVC door shutters using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rebate for housing the shutter. | | |
| a | Solid panel PVC door with frame | sq.m. | 2670.00 |
| b | Solid panel PVC door without frame | sq.m. | 2250.00 |
| 97a | FRP door Shutter with FRP door frames made out of FRP Sheets of 3mm thick of over all size 65mm x 50mm with rebate suitably reinforced using MS Angle / Flats, cost of holdfasts and solid core FRP shutter Panel of 5mm thick and hollow core frames of 3mm wall thickness for styles and rails etc., of sizes specified by Engineers. | sq.m. | 3700.00 |
| b | Excluding door frames | sq.m. | 2840.00 |
| 98a | PVC panelled door shutters hollow type - 200 mm x 20 mm panels with 1 mm wall thickness for panels and styles and rails of suitable size with 2 mm wall thickness suitably reinforced using MS Angle / Flat including cost of necessary Aluminium hinges and other furniture fittings. | sq.m. | 1900.00 |
| b | Excluding door frames | sq.m. | 1605.00 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|---|--------------|----------------------------|
| 99 | RCC door frame of 100mm x 65mm cross sectional size with necessary rebate for housing the shutters, manufactured with cement concrete of grade not less than M20 using 10 mm and below graded stone jelly and using steel reinforcement as per C.E. (B) circular instructions. | RM | 266.00 |
| 100 | Stainless Steel (Salem Stainless Steel) Door Frame (Box Section using Stainless Steel Plate of 1 mm thick) of size 100 mm x 60 mm with a rebate of 30/ 35 mm x 15 mm on one side of the frame including supplying and fixing dovetail splayed end stainless steel Hold fast etc., | RM | 850.00 |
| 101 | Stainless Steel (Salem Stainless Steel) Door Frame (Box Section using Stainless Steel Plate of 1.6mm thick) of size100mmx60mm with a rebate of 30/ 35mm x 15mm on one side of the frame including supplying and fixing dovetail splayed end stainless steel hold fast etc., | RM | 1150.00 |
| 102 | Supplying and erecting pull and push type rolling shutter with ISI make of approved size and section using 18 GI sheet. The shutter shall be painted with one coat of red oxide primer and the rate is inclusive of hood covers, transportation charges etc., | | |
| A | ROLLING SHUTTERS (WITH ISI MONOGRAM) | | |
| a | Manually operated (up to 8 m ² area) | sq.m. | 2010.00 |
| b | Gear operated type (from 8 m ² to 12 m ² area) | sq.m. | 2240.00 |
| c | Electrically operated type (exceeding 12m ² area) | sq.m. | 2435.00 |
| B | ROLLING GRILLS (WITH ISI MONOGRAM) | | |
| a | Manually operated (up to 8 m ² area) | sq.m. | 2050.00 |
| b | Gear operated (from 8 m ² to 12 m ² area) | sq.m. | 2305.00 |
| c | Electrically operated (exceeding 12 m ² area) | sq.m. | 2565.00 |
| 103 | Barbed Wire - 10 Gauge - Two ply and four pronged (Galvanised) | 1 Kg or 6 RM | 57.50 |
| 104 | Chain link - 2" x 2" using 10 Gauge Galvanised Iron Wire (of all sizes) | sq.m. | 148.30 |
| 105 | Pin Headed / Fluted / Figured Glass 3mm thick | sq.m. | 210.00 |
| 106 | Plain Glass - 4mm thick | sq.m. | 284.00 |
| 107 | Plain Sheet Glass - 5.5mm thick | sq.m. | 336.00 |
| 108 | Metal screws (for Aluminium Doors, windows etc.) | | |
| i | 75mm x 8mm | Each | 2.05 |
| ii | 38mm x 6mm | Each | 1.45 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|--|----------|----------------------------|
| iii | 19mm x 8mm | Each | 1.00 |
| iv | 19mm x 6mm | Each | 0.75 |
| 109 | Cement paint (First quality) | Kg | 46.20 |
| 110 | Oil Bound Distemper | Kg | 68.30 |
| 111 | Acrylic Distemper | Kg | 78.90 |
| 112 | Primer for Plastic Emulsion paint | Litre | 136.50 |
| 113 | Plastic Emulsion paint (First quality) | Litre | 274.00 |
| 114 | Wood Primer | Litre | 136.50 |
| 115 | Synthetic Enamel paint for Wood work | Litre | 221.00 |
| 116 | Red Oxide primer for Iron work | Litre | 126.70 |
| 117 | Synthetic Enamel paint for Iron work | Litre | 211.00 |
| 118 | Brass chromium plated screw down Tap 15 / 12mm Dia (Heavy Type) | Each | 191.00 |
| 119 | Chromium plated stop cock 15mm Dia | Each | 140.00 |
| 120 | Brass chromium plated pillar Tap (Heavy type)-15/12mm Dia | Each | 251.00 |
| 121 | Brass chromium plated shower Rose - 100mm Dia | Each | 180.00 |
| 122 | Wooden plug, clamp and screws | Set | 11.40 |
| 123 | Shellac | 100 gram | 17.20 |
| 124 | Thread Ball | Each | 3.35 |
| 125 | Oriya Type Indian Water closet 580mm x 440mm with "P" or "S" Trap | | |
| i | White | Set | 1119.00 |
| ii | Colour | Set | 1425.00 |
| 126 | European Water closet with "P" or "S" Trap with Double Flapped seat and seat cover with Brass Hinges and 10 litre capacity PVC low level flusing tank with all internal fittings | | |
| i | White | Set | 2860.00 |
| ii | Colour | Set | 3230.00 |
| 127 | European water closet with "P" or "S" Trap with Double flapped seat and seat cover with Brass Hinges and 12.5 litre capacity Porcelain low level flusing tank with all internal fittings | | |
| i | White | Set | 4030.00 |
| ii | Colour | Set | 4850.00 |
| 128 | Wash Hand Basin of size 550mm x 400mm with all accessories such as cast iron brackets, 32mm dia C.P. waste coupling, rubber plug and chain, 32mm dia 'B' Class G.I. waste pipe, 15mm dia G.M. wheel valve, | | |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|--|------|----------------------------|
| i | 15mm dia nylon connection, 15mm dia brass nipples, 15mm C.P. pillar tap etc. White without pedastal | Set | 1550.00 |
| ii | White with pedastal | Set | 1863.00 |
| iii | Colour without pedastal | Set | 2075.00 |
| iv | Colour with pedastal | Set | 2295.00 |
| 129 | White Porcelin Sink of size 600mm x 450mm x 200mm with 32mm dia 'B' Class G.I. waste water pipe and 32mm dia C.P. waste coupling. | Set | 1988.00 |
| 130 | Cuddapah Slab Sink of size 600mm x 450mm x 200mm with 32mm dia 'B' Class G.I. waste water pipe & 32mm dia C.P. waste coupling. | Set | 713.00 |
| 131 | Cuddapah Slab Sink of size 600mm x 600mm x 200mm with 32mm dia 'B' Class G.I. waste water pipe & 32mm dia C.P. waste coupling. | Set | 944.00 |
| 132 | Lipped Mouth Porcelin Flat Back Urinal with all accessories such as 32mm dia Bell mouth PVC connection, 15mm dia G.M. wheel valve, 15mm dia 'B' Class G.I. waste water pipe, 15mm dia nylon connection, 15 mm dia brass nipple etc., | | |
| i | White | Set | 870.00 |
| ii | Colour | Set | 997.00 |
| 133 | Porcelin soap dish of size 150mm x 150mm x 50mm | | |
| i | White | Each | 181.50 |
| ii | Colour | Each | 248.80 |
| 134 | Brass chromium plated soap tray of size 150mm x 100mm | Each | 152.70 |
| 135 | Brass chromium plated towel rail 60cm long and 20mm dia with Brackets | Set | 248.80 |
| 136 | Anodised Aluminium Towel Rail 60cm long and 20mm dia with Brackets. | Set | 128.00 |
| 137 | PVC / Fibre Glass framed 5.5mm thick mirror, shelf type with Hard Board Backing | | |
| i | 600mm x 450mm | Each | 440.00 |
| ii | 500mm x 400mm | Each | 355.00 |
| 138 | Stone ware gully trap of size 150mm x 100mm with cast Iron Double Gratings | Each | 157.70 |
| 139 | Cast Iron Nahini / Floor Trap with stainless Steel Grating | | |
| i | 100mm x 75mm | Each | 258.60 |
| ii | 75mm x 50mm | Each | 202.60 |

| Sl. No. | Description | Unit | Rate for 2018-19 in Rupees |
|---------|---|-------|----------------------------|
| 140 | PVC Nahini / Floor Trap with PVC Grating | | |
| i | 100mm x 75mm | Each | 143.00 |
| ii | 75mm x 50mm | Each | 125.20 |
| 141 | Spun Yarn | Kg | 12.20 |
| 142 | Hemp Yarn | Kg | 11.00 |
| 143 | Gunny Tape / Kithan | sq.m. | 11.00 |
| 144 | Tar | Kg | 38.00 |
| 145 | Bitumen Felt 15 mm thick pad | sq.m. | 218.00 |
| 146 | Supplying, fabricating, erecting and fixing gyp board false ceiling upto a ceiling height of 4.5m from floor level. | | |
| a | Using plain sheets (10mm thick) | sq.m. | 900.00 |
| b | Using perforated sheets (10mm thick) | sq.m. | 921.00 |
| 147 | Supplying and laying Glass wool for insulation including necessary packing materials. | | |
| a | Using 50mm thick Glass wool | sq.m. | 364.00 |
| b | Using 25mm thick Glass wool | sq.m. | 194.00 |
| 148 | Vitrified Tiles of size 600 x 600 x 8 mm | sq.m. | 597.00 |
| 149 | Pre-polished concrete anti-skid step tiles of 20mm thick | sq.m. | 571.00 |
| 150 | Colour designed glazed tiles 300 x 200 x 6 mm | Each | 28.30 |
| 151 | Squatting Urinal | Set | 421.00 |
| 152 | CI Brackets for fixing the sink | set | 99.90 |
| 153 | Swan Neck Tap | Each | 235.00 |
| 154 | Brass Screws (30 x 6 mm) | Each | 2.25 |
| 155 | Brass Screws (75 x 10 mm) | Each | 4.55 |
| 156 | Special clamp, teak wood plugs and screws | Set | 20.00 |
| 157 | PVC Clamp, teak wood plugs and screws | Set | 7.90 |
| 158 | Teak Wood plug | Each | 1.00 |
| 159 | Teak wood plug (50 x 50 x 100 mm) | Each | 5.00 |
| 160 | Manhole cover 60 x 60 cm (heavy duty) with frame | Each | 1725.00 |
| 161 | Welding Charges | | |
| a | 50 mm | Each | 1.95 |
| b | 40 mm | Each | 1.55 |
| 162 | Add for painting/ tarring for Hex Nipple | Each | 2.65 |
| 163 | Labour charges for fixing cuddapah slab to cup board | sq.m. | 42.60 |
| 164 | Hire charges for polishing machinery | Day | 212.00 |
| 165 | Electricity charges | Unit | 11.10 |

**III (F) WATER SUPPLY AND SANITARY
ARRANGEMENTS**

WATER SUPPLY AND SANITARY ARRANGEMENTS

| Sl. No. | Name of Materials | Unit | Basic Rate approved for the year 2018-2019 (Working Pressure) | | |
|----------|--|------|---|-------------|---------------|
| | | | 4Kg per cm2 | 6Kg per cm2 | 10Kg. per cm2 |
| | | | | | |
| | WATER SUPPLY AND SANITARY ARRANGEMENTS | | | | |
| 1 | PVC ITEMS FINOLEX (OR) EQUIVALENT (WITH ISI MONOGRAM) | | | | |
| I | PVC Pipes | | | | |
| a | 15 mm Dia | RM | | | 13.90 |
| b | 20 mm Dia | RM | | | 20.60 |
| c | 25 mm Dia | RM | | | 35.10 |
| d | 32 mm Dia | RM | | | 52.50 |
| e | 40 mm Dia | RM | | | 82.20 |
| f | 50 mm dia | RM | 52.50 | 82.20 | 122.90 |
| g | 63 mm dia | RM | 76.00 | 111.30 | |
| h | 75 mm Dia | RM | 105.70 | 158.40 | |
| i | 90 mm Dia | RM | 123.20 | 188.20 | |
| j | 110 mm Dia | RM | 164.60 | 247.00 | |
| k | 160 mm Dia | RM | 340.00 | 482.00 | |

Note (1) For Rainwater down fall pipe works, only PVC Pipe of working Pressure of **4 kg. per sq.cm.** shall be adopted.

(2) For Sanitary arrangement items of works, only PVC Pipe of working Pressure of **6 kg. per sq.cm.** shall be adopted.

(3) For Water Supply arrangement items of works, only PVC Pipe of working Pressure of **10 kg. per sq.cm.** shall be adopted.

| Sl. No. | Name of Materials | Unit | Basic Rate approved for the year 2018-2019 Working Pressure 10Kg per CM2 | |
|----------|---|------|--|-------|
| | | | | |
| 2 | PVC Specials for water supply arrangements | | | |
| A | Coupler | | | |
| a | 15 mm Dia | Each | | 3.40 |
| b | 20 mm Dia | Each | | 3.90 |
| c | 25 mm Dia | Each | | 4.60 |
| d | 32 mm Dia | Each | | 5.80 |
| e | 40 mm Dia | Each | | 8.60 |
| f | 50 mm Dia | Each | | 11.70 |
| B | Elbow | | | |
| a | 15 mm Dia | Each | | 5.10 |

| Sl. No. | Name of Materials | Unit | Basic Rate approved for the year 2018-2019 |
|----------|----------------------|------|---|
| | | | (Working Pressure 10Kg per CM2) |
| b | 20 mm Dia | Each | 5.80 |
| c | 25 mm Dia | Each | 8.10 |
| d | 32 mm Dia | Each | 11.70 |
| e | 40 mm Dia | Each | 16.40 |
| f | 50 mm Dia | Each | 23.40 |
| C | BEND | | |
| a | 15 mm Dia | Each | 5.80 |
| b | 20 mm Dia | Each | 7.00 |
| c | 25 mm Dia | Each | 9.30 |
| d | 32 mm Dia | Each | 13.90 |
| e | 40 mm Dia | Each | 18.70 |
| f | 50 mm Dia | Each | 29.30 |
| D | Tee | | |
| a | 15 mm Dia | Each | 7.00 |
| b | 20 mm Dia | Each | 8.10 |
| c | 25 mm Dia | Each | 11.70 |
| d | 32 mm Dia | Each | 14.00 |
| e | 40 mm Dia | Each | 23.40 |
| f | 50 mm Dia | Each | 35.10 |
| E | End Cap | | |
| a | 15 mm Dia | Each | 3.40 |
| b | 20 mm Dia | Each | 4.60 |
| c | 25 mm Dia | Each | 5.80 |
| d | 32 mm Dia | Each | 7.00 |
| e | 40 mm Dia | Each | 10.90 |
| f | 50 mm Dia | Each | 15.10 |
| F | Reducer | | |
| a | 20 mm x 15 mm | Each | 4.60 |
| b | 25 mm x 20 mm | Each | 5.10 |
| c | 32 mm x 25 mm | Each | 8.10 |
| d | 40 mm x 32 mm | Each | 10.90 |
| e | 50 mm x 40 mm | Each | 18.70 |
| G | Reducer Tee | | |
| a | 20 mm x 15 mm | Each | 7.00 |
| b | 25 mm x 20 mm | Each | 8.10 |
| c | 32 mm x 25 mm | Each | 11.70 |
| d | 40 mm x 32 mm | Each | 14.00 |
| e | 50 mm x 40 mm | Each | 23.40 |
| H | Reducer Elbow | | |
| a | 20 mm x 15 mm | Each | 5.80 |
| b | 25 mm x 20 mm | Each | 7.00 |
| c | 32 mm x 25 mm | Each | 9.30 |
| d | 40 mm x 32 mm | Each | 11.70 |
| e | 50 mm x 40 mm | Each | 17.50 |
| J | Jet Nipple | | |
| a | 25 mm Dia | Each | 15.10 |
| b | 32 mm Dia | Each | 19.80 |

| Sl. No. | Name of Materials | Unit | Basic Rate approved for the year 2018-2019 (Working Pressure 10Kg per CM2) | |
|----------|-------------------------------|------|---|---|
| | | | "O" Ring Jointing | By Pasting |
| | | | 3 | PVC SPECIALS FOR SANITARY ARRANGEMENTS FINOLEX (OR) EQUIVALENT (WITH ISI MONOGRAM) |
| A | Elbow | | | |
| a | 75 mm | Each | 61.60 | 50.40 |
| b | 90 mm | Each | 78.90 | 60.90 |
| c | 110 mm | Each | 95.70 | 78.90 |
| d | 160 mm | Each | 107.00 | 90.30 |
| B | Door Elbow | | | |
| a | 75 mm | Each | 78.90 | 56.40 |
| b | 90 mm | Each | 101.60 | 67.70 |
| c | 110 mm | Each | 124.00 | 107.00 |
| d | 160 mm | Each | 146.80 | 124.20 |
| C | Tee | | | |
| a | 75 mm | Each | 84.40 | 78.90 |
| b | 90 mm | Each | 107.00 | 95.70 |
| c | 110 mm | Each | 140.90 | 129.60 |
| d | 160 mm | Each | 158.10 | 140.10 |
| D | Tee with Door (Single) | | | |
| a | 75 mm | Each | 107.00 | 101.60 |
| b | 90 mm | Each | 129.60 | 112.70 |
| c | 110 mm | Each | 163.50 | 152.20 |
| d | 160 mm | Each | 197.40 | 180.80 |
| E | Tee with Door (Double) | | | |
| a | 75 mm | Each | 135.30 | 129.60 |
| b | 90 mm | Each | 186.00 | 169.00 |
| c | 110 mm | Each | 226.00 | 214.00 |
| d | 160 mm | Each | 259.00 | 230.00 |
| F | Bend | | | |
| a | 75 mm | Each | 67.70 | 56.40 |
| b | 90 mm | Each | 84.40 | 67.70 |
| c | 110 mm | Each | 101.60 | 84.40 |
| d | 160 mm | Each | 112.70 | 95.70 |
| G | "Y" | | | |
| a | 75 mm | Each | 90.30 | 84.40 |
| b | 90 mm | Each | 112.70 | 101.60 |
| c | 110 mm | Each | 146.80 | 135.50 |
| d | 160 mm | Each | 163.50 | 146.80 |
| H | "Y" with Door (single) | | | |
| a | 75 mm | Each | 107.00 | 101.60 |

| Sl. No. | Name of Materials | Unit | Rates for 2018-19 in Rupees | |
|----------|--|--------|--------------------------------|---------------|
| | | | "O" Ring Jointing | By Pasting |
| b | 90 mm | Each | 135.60 | 118.30 |
| c | 110 mm | Each | 180.80 | 158.10 |
| d | 160 mm | Each | 208.00 | 186.00 |
| I | "Y" with Door (Double) | | | |
| a | 75 mm | Each | 146.80 | 140.80 |
| b | 90 mm | Each | 197.40 | 180.80 |
| c | 110 mm | Each | 237.30 | 225.00 |
| d | 160 mm | Each | 287.00 | 259.00 |
| J | Double Tee with Door (Single) | | | |
| a | 75 mm | Each | 186.00 | 152.20 |
| b | 90 mm | Each | 214.00 | 174.80 |
| c | 110 mm | Each | 253.00 | 220.00 |
| d | 160 mm | Each | 282.00 | 248.00 |
| K | Double "Y" with Door (single) | | | |
| a | 75 mm | Each | 203.00 | 169.00 |
| b | 90 mm | Each | 226.00 | 192.00 |
| c | 110 mm | Each | 259.00 | 242.00 |
| d | 160 mm | Each | 316.00 | 282.00 |
| L | Reducer | | | |
| a | 75 mm x 63 mm | Each | 61.70 | 50.40 |
| b | 110 mm x 63 mm | Each | 78.90 | 67.70 |
| c | 110 mm x 75 mm | Each | 90.30 | 78.90 |
| d | 110 mm x 90 mm | Each | 101.50 | 90.30 |
| f | 160 mm x 110 mm | Each | 118.30 | 112.70 |
| M | Shoe | | | |
| a | 110 mm dia | Each | — | 67.70 |
| b | 160 mm dia | Each | — | 101.50 |
| N | Vent Cowl | | | |
| a | 50 mm dia | Each | — | 27.90 |
| b | 75 mm dia | Each | — | 45.10 |
| c | 110 mm dia | Each | — | 67.70 |
| | OTHER ITEMS : | | | |
| 4 | PVC screw down tap heavy type 20 mm dia. | Each | 75.70 | |
| 5 | PVC screw down tap heavy type 15 mm dia. | Each | 58.50 | |
| 6 | PVC Adhesive (solution) | 100 gm | 32.10 | |
| 7 | PVC low level flushing tank with all internal fittings - (wall mounting type) | | | |
| a | White - 10 litre capacity | Set | 807.00 | |
| b | White - 7.5 litre capacity | Set | 617.00 | |
| c | Colour - 10 litre capacity | Set | 914.00 | |
| d | Colour - 7.5 litre capacity | Set | 726.00 | |

| Sl. No. | Name of Materials | Unit | Basic Rate approved for the year 2018-2019 | |
|-----------|--|-------|--|------------|
| | | | "O" Ring Jointing | By Pasting |
| 8 | PVC AND HDPE PIPES FOR BORE WELLS | | | |
| A | Special Blue Pipes for Bore Well | | | |
| a | 110mm dia | RM | — | 281.00 |
| b | 125mm dia | RM | — | 316.00 |
| c | 140mm dia | RM | — | 363.00 |
| d | 160mm dia | RM | — | 410.00 |
| B | Special Blue Slotted Pipes for Bore Wells | | | |
| a | 110mm dia | RM | — | 293.00 |
| b | 125mm dia | RM | — | 334.00 |
| c | 140mm dia | RM | — | 387.00 |
| d | 160mm dia | RM | — | 470.00 |
| C | End Cap for Bore Well | | | |
| a | 110mm dia | Each | — | 87.90 |
| b | 125mm dia | Each | — | 94.00 |
| c | 140mm dia | Each | — | 105.80 |
| d | 160mm dia | Each | — | 117.00 |
| | HDPE PIPES FOR SUB-MERSIBLE PUMP IN BORE WELL Class-5 | | | |
| D | (1 MPa or 10 kg./cm² pressure) | | | |
| a | 20mm dia | RM | — | 29.00 |
| b | 25mm dia | RM | — | 52.50 |
| c | 32mm dia | RM | — | 70.40 |
| d | 40mm dia | RM | — | 99.60 |
| e | 50mm dia | RM | — | 141.00 |
| 9 | PVC Water Tank | Litre | 8.20 | |
| 10 | UPVC Pipe (Un-Plasticized Polyvinyl Chloride) UPVC used for residential and home applications, water pressure in residential areas do not normally exceed the maximum tolerance. (Schedule-40) | | | |
| a | 15mm dia | RM | 34.60 | |
| b | 20mm dia | RM | 49.70 | |
| c | 25mm dia | RM | 72.00 | |
| d | 32mm dia | RM | 97.70 | |
| e | 40mm dia | RM | 108.40 | |
| f | 50mm dia | RM | 149.30 | |
| g | 65mm dia | RM | 222.20 | |
| h | 80mm dia | RM | 284.40 | |
| i | 100mm dia | RM | 373.30 | |
| j | 150mm dia | RM | 622.00 | |

| Sl. No. | Name of Materials | Unit | Basic Rate approved for the year 2018-2019 | |
|-----------|--|------|--|------------|
| | | | "O" Ring Jointing | By Pasting |
| 11 | UPVC Pipe (Un-Plasticized Polyvinyl Chloride) UPVC used for commercial applications operate and designed to handle higher water pressure (Schedule-80) | | | |
| a | 15mm dia | RM | 43.50 | |
| b | 20mm dia | RM | 61.30 | |
| c | 25mm dia | RM | 87.10 | |
| d | 32mm dia | RM | 120.00 | |
| e | 40mm dia | RM | 148.40 | |
| f | 50mm dia | RM | 201.00 | |
| g | 65mm dia | RM | 287.00 | |
| h | 80mm dia | RM | 413.00 | |
| i | 100mm dia | RM | 612.00 | |
| j | 150mm dia | RM | 1022.00 | |
| 12 | CPVC (Chlorinated Poly Vinyl Chloride) Pipe (Higher pressure rating with higher pipe thickness) Standard Dimension Ratio-11 | | | |
| a | 15mm dia | RM | 62.90 | |
| b | 20mm dia | RM | 95.40 | |
| c | 25mm dia | RM | 148.70 | |
| d | 32mm dia | RM | 222.20 | |
| e | 40mm dia | RM | 244.40 | |
| f | 50mm dia | RM | 266.60 | |
| g | 65mm dia | RM | 288.80 | |
| 13 | CPVC (Chlorinated Poly Vinyl Chloride) Pipe (Lesser pressure rating with lesser pipe thickness) Standard Dimension Ratio-13.50 | | | |
| a | 15mm dia | RM | 55.10 | |
| b | 20mm dia | RM | 87.40 | |
| c | 25mm dia | RM | 126.90 | |
| d | 32mm dia | RM | 192.80 | |
| e | 40mm dia | RM | 212.40 | |
| f | 50mm dia | RM | 232.00 | |
| g | 65mm dia | RM | 251.00 | |
| | New Items | | | |
| 14 | UPVC Specials | | | |
| I | Elbow | | | |
| a | 50mm dia | Each | 71.25 | |
| b | 40mm dia | Each | 47.50 | |
| c | 32mm dia | Each | 35.65 | |
| d | 25mm dia | Each | 23.75 | |

| Sl. No. | Name of Materials | Unit | Basic Rate approved for the year 2018-2019 | |
|------------|----------------------|------|--|------------|
| | | | "O" Ring Jointing | By Pasting |
| e | 20mm dia | Each | 14.65 | |
| f | 15mm dia | Each | 9.75 | |
| II | Tee | | | |
| a | 50mm dia | Each | 98.75 | |
| b | 40mm dia | Each | 61.25 | |
| c | 32mm dia | Each | 46.25 | |
| d | 25mm dia | Each | 31.25 | |
| e | 20mm dia | Each | 18.15 | |
| f | 15mm dia | Each | 12.90 | |
| III | Union | | | |
| a | 25mm dia | Each | 53.75 | |
| b | 32mm dia | Each | 72.50 | |
| c | 40mm dia | Each | 107.50 | |
| IV | Reducer | | | |
| a | 50mm x 40mm dia | Each | 48.75 | |
| b | 40mm x 32mm dia | Each | 31.25 | |
| c | 32mm x 25mm dia | Each | 22.75 | |
| d | 25mm x 20mm dia | Each | 13.75 | |
| e | 20mm x 15mm dia | Each | 10.25 | |
| V | Reducer Elbow | | | |
| a | 50mm x 40mm dia | Each | 95.00 | |
| b | 40mm x 32mm dia | Each | 65.30 | |
| c | 32mm x 25mm dia | Each | 47.50 | |
| d | 25mm x 20mm dia | Each | 31.05 | |
| e | 20mm x 15mm dia | Each | 25.80 | |
| VI | Reducer Tee | | | |
| a | 50mm x 40mm dia | Each | 108.75 | |
| b | 40mm x 32mm dia | Each | 72.50 | |
| c | 32mm x 25mm dia | Each | 52.50 | |
| d | 25mm x 20mm dia | Each | 31.25 | |
| e | 20mm x 15mm dia | Each | 25.00 | |
| VII | Hex Nipple | | | |
| a | 50mm dia | Each | 152.50 | |
| b | 40mm dia | Each | 101.25 | |
| c | 32mm dia | Each | 66.25 | |
| d | 25mm dia | Each | 47.50 | |

| Sl. No. | Name of Materials | Unit | Basic Rate approved for the year 2018-2019 | |
|------------|----------------------|------|--|------------|
| | | | "O" Ring Jointing | By Pasting |
| 15 | CPVC Specials | | | |
| I | Elbow | | | |
| a | 50mm dia | Each | 299.00 | |
| b | 40mm dia | Each | 145.00 | |
| c | 32mm dia | Each | 87.10 | |
| d | 25mm dia | Each | 40.95 | |
| e | 20mm dia | Each | 19.50 | |
| f | 15mm dia | Each | 16.90 | |
| II | Tee | | | |
| a | 50mm dia | Each | 376.00 | |
| b | 40mm dia | Each | 199.55 | |
| c | 32mm dia | Each | 111.15 | |
| d | 25mm dia | Each | 49.40 | |
| e | 20mm dia | Each | 31.85 | |
| f | 15mm dia | Each | 22.75 | |
| III | Coupling | | | |
| a | 50mm dia | Each | 204.75 | |
| b | 40mm dia | Each | 98.15 | |
| c | 32mm dia | Each | 53.50 | |
| d | 25mm dia | Each | 26.65 | |
| e | 20mm dia | Each | 15.60 | |
| f | 15mm dia | Each | 13.00 | |
| IV | Union | | | |
| a | 50mm dia | Each | 540.00 | |
| b | 40mm dia | Each | 300.00 | |
| c | 32mm dia | Each | 181.35 | |
| d | 25mm dia | Each | 112.45 | |
| e | 20mm dia | Each | 89.05 | |
| f | 15mm dia | Each | 57.20 | |
| V | Nipple | | | |
| a | 50mm dia | Each | 357.50 | |
| b | 40mm dia | Each | 226.85 | |
| c | 32mm dia | Each | 155.35 | |
| d | 25mm dia | Each | 99.45 | |
| e | 20mm dia | Each | 65.65 | |
| f | 15mm dia | Each | 59.80 | |

Note: - The basic rate adopted under this Head- "Rates for other construction materials" is exclusive of all taxes and GST.

III (G) RATES FOR ELECTRICAL ITEMS

ELECTRICAL ITEMS OF WORKS
ELECTRICAL LAMPS, FITTINGS AND CONNECTED ACCESSORIES

Note:- No extra on cost, conveyance charges shall be allowed for all the items included under this category. The rates approved therein are applicable at site of work.

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|---|------|-----------------------------|
| I | PART-A | | |
| 1 | INCANDESCENT BULBS 230V/ 250V GRADE BC/ ES WITH ISI | | |
| a. | 15 Watts | Each | 9.10 |
| b. | 25 Watts | Each | 9.10 |
| c. | 40 Watts | Each | 9.10 |
| d. | 60 Watts | Each | 9.10 |
| e. | 100 Watts | Each | 9.10 |
| f. | 200 Watts | Each | 18.20 |
| 2 | INCANDESCENT BULB 230V/250V GRADE BC/ ES | | |
| a. | Colour 15 Watts | Each | 11.10 |
| b. | Blended lamp 160 Watts | Each | 220.00 |
| 3 | PL LAMP (PHILIPS/ OSRAM / EQUIVALENT) | | |
| a. | 9 Watts | Each | 68.50 |
| b. | 11 Watts | Each | 73.00 |
| c. | 18 Watts | Each | 115.00 |
| d. | 36 Watts | Each | 127.90 |
| 4 | FLUORESCENT TUBULAR LAMPS WITH ISI MARK | | |
| a. | Cool Day light 2 Ft. 20 Watts | Each | 34.40 |
| b. | Cool Day light 4 Ft. 40 Watts | Each | 34.40 |
| c. | Cool Day light 4 Ft. 36 Watts | Each | 33.60 |
| | New Item (HAVELS / EQUIVALENT) | | |
| 5 | 4' 18W crystal Glass LED Tube Light | Each | 370.50 |
| 6 | MERCURY VAPOUR DISCHARGE LAMP 230V GRADE 3 PIN BC | | |
| a. | 80 Watts | Each | 158.00 |
| b. | 125 Watts | Each | 166.00 |
| c. | 250 Watts | Each | 405.00 |
| d. | 400 Watts | Each | 572.00 |
| 7 | BOX TYPE SINGLE FLUORESCENT FITTING WITH COPPER CHOKE AND CONDENSOR COMPLETE WITH ISI MARK | | |
| a. | 4 Ft. 40 Watts with ballast | Each | 293.00 |
| b. | 4 Ft. 40 Watts Box type with Ballast (Philips/ Crompton / Wipro / Equivalent) | Each | 431.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|---|------|-----------------------------|
| 8 | BOX TYPE TWIN FLUORESCENT FITTING WITH COPPER CHOKE AND CONDENSOR[HPF] COMPLETE WITH ISI MARK | | |
| a. | 4 Ft. 40 Watts | Each | 550.00 |
| b. | 4 Ft. 40 Watts Box type (Philips/ Crompton) With Ballast | Each | 718.00 |
| 9 | INDUSTRIAL TYPE FLUORESCENT FITTING STOVE ENAMELLED WITH COPPER CHOKE AND CONDENSOR (HPF) 4 Ft. 40W | | |
| a. | Single type suitable for 1 No. tube | Each | 810.00 |
| b. | Twin type suitable for 2 Nos. tube | Each | 995.00 |
| 10 | DECORATIVE TWIN FLUORESCENT TYPE FITTING WITH COPPER CHOKE AND CONDENSOR COMPLETE SUITABLE FOR 2 NUMBERS FLUORESCENT TUBES | | |
| a. | 4 Ft. 40W Twin Mirror optic Recessed mounting fitting | Each | 1395.00 |
| b. | 4 Ft. 40W Twin Mirror optic Suspension type fitting. (Philips/ Crompton /Wipro) | Each | 2515.00 |
| c. | 4 Ft. 40W Twin Mirror Optic Recessed mounting type fitting(Philips/ Crompton/ Wipro) | Each | 1845.00 |
| 11 | SINGLE TYPE STREET LIGHT FLUORESCENT FITTING SUITABLE FOR ONE NO. FLUORESCENT TUBE WITH COPPER CHOKE AND CONDENSOR COMPLETE | | |
| a. | 4 Ft. 40 Watts type | Each | 614.00 |
| 12 | TWIN TYPE STREET LIGHTS FLUORESCENT FITTING SUITABLE FOR 2 Nos. FLUORESCENT TUBES WITH COPPER CHOKE AND CONDENSOR COMPLETE | | |
| a. | 4 Ft. 40 Watts type | Each | 826.00 |
| 13 | POST TOP LANTERN FITTING OF (INTEGRAL TYPE) WITH COPPER CHOKE AND CONDENSOR & NECESSARY ACCESSORIES (PHILIPS/ CROMPTON GREAVES/WIPRO) (SPHERICAL / RIBBED / CONICAL ACRYLIC COVER) | | |
| a. | Suitable for 125 Watts M.V lamp | Each | 2970.00 |
| b. | Suitable for 70 Watts S.V. Lamp | Each | 3130.00 |
| c. | Post top lantern fitting with S.C. holder suitable for 160 W blended lamp/ incandescent lamp | Each | 1710.00 |

| Item | Description | Unit | Rates for 2018-19 No. in Rupees | |
|------|---|------|--|---|
| | | | Higher End Havells / Crompton/ Equivalent/ | Lower End Orbit/ Inventa / Equivalent/ |
| 14 | CFL STREET LIGHT FITTINGS (COMPACT FLOURESCENT LAMP) | | | |
| a | T5 Street Light (IP65) T5SHE11414EB/4x14W T5 | Each | 3540 | 2830 |
| b | T5 Street Light (IP65) T5SHO11424EB/4x24W T5 | Each | 3910 | 3130 |
| c | 1 x 9W CFL Street Light | Each | 815 | 652 |
| d | 1 x 11W CFL Street Light | Each | 815 | 652 |
| e | 1 x 13W CFL Street Light | Each | 820 | 655 |
| f | 1 x 18W CFL Street Light | Each | 820 | 655 |
| g | 2 x 9W CFL Street Light | Each | 780 | 625 |
| h | 2 x 11W CFL Street Light | Each | 955 | 765 |
| i | 2 x 13W CFL Street Light | Each | 955 | 765 |
| j | 2 x 18W CFL Street Light | Each | 955 | 765 |
| k | 1 x 36 CFL Street Light | Each | 975 | 780 |
| l | Orion Retro 45-1x45W 4U Retro CFL B22 Street Light | Each | 910 | 730 |
| m | Orion Nova CFL - 1 x 85W CFL E27 Street Light | Each | 1480 | 1185 |
| n | Orion Nova CFL 1 x 85W CFL B22 Street Light | Each | 1480 | 1185 |
| o | Crypton DD Series for FP-L2x36WFP-LHF(MS) Street Light | Each | 1540 | 1230 |
| p | Crypton DD Series for FP-L2 x 36WFP-LHF(AL) Street Light | Each | 1710 | 1365 |
| q | Crypton DD Series for T5 1 x 24W FTL T5 Street Light | Each | 1595 | 1275 |
| r | Crypton DD Series for T5 2 x 14W FTL T5 Street Light | Each | 1765 | 1415 |
| s | Crypton DD Series for T5 2 x 24W FTL T5 Street Light | Each | 1850 | 1480 |
| t | Crypton FTL 1 x 36 / 40W FTL Street Light | Each | 1280 | 1025 |
| u | Crypton FTL 2 x 36 / 40W FTL Street Light | Each | 1825 | 1460 |
| 15 | LED INDOOR FITTINGS (LIGHT EMITTING DIODE) | | | |
| a | LED 4000K 2 x 2 Square Type Recessed Fitting | Each | 3350 | 2375 |
| b | 18W LED 3000K Square Type Recessed Fitting | Each | 1310 | 865 |
| c | 18W LED 3000K Round Type Recessed Fitting | Each | 1190 | 940 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|---|------|---|
| 16 | LED OUTDOOR FITTINGS (LIGHT EMITTING DIODE) | | Higher End Havells / Crompton/ Equivalent |
| a | 30W LED Street Light Fitting | Each | 2390.00 |
| b | 48W LED Street Light Fitting | Each | 4720.00 |
| c | 80W LED Focus Light Fitting | Each | 11250.00 |
| 17 | LED OUTDOOR FITTINGS (LIGHT EMITTING DIODE) | | Lower End Orbit / Equivalent |
| a | 25W LED Street Light Fitting | Each | 1130.00 |
| b | 30W LED Street Light Fitting | Each | 1755.00 |
| c | 60W LED Street Light Fitting | Each | 3470.00 |
| | New Items | | |
| 18 | TIMER SWITCHES | | Havells/ Equivalent |
| a | 24 Hours Analog Timer Switch with Shortest Switching Time 30 Minutes | Each | 2180.00 |
| b | 24 Hours Programmable Timer Switch with Shortest Switching Time 15 Minutes | Each | 2315.00 |
| c | Digital Weekly Programmable Timer Switch with Shortest Switching Time 1 Minute | Each | 2170.00 |
| d | Astronomical Weekly Programmable Timer Switch | Each | 2500.00 |
| e | Staircase Light Timer Switch Adjustable Range 5 to 20 Minutes | Each | 1150.00 |
| 19 | STARTERS FOR FLUORESCENT TUBES | | |
| a. | Starters of capacity 20 Watts | Each | 9.10 |
| b. | Starters of capacity 40 Watts | Each | 9.10 |
| 20 | POLYSTER FILLED COPPER CHOKE 250V/ 50 HZ GRADE SUITABLE FOR (PHILIPS/CROMPTON/WIPRO) | | |
| a. | 20 Watts fluorescent Tube | Each | 162.00 |
| b. | 40 Watts fluorescent Tube | Each | 162.00 |
| c. | 36/40W Electronic ballast for flu. Tube (Philips/Crompton) | Each | 269.00 |
| d. | 36/40W Electronic ballast for flu. Tube (Indo Asean) | Each | 219.00 |
| 21 | CONDENSOR FOR S.V/ M.V LAMP | | |
| a. | 8 Mfd for 80 Watts Bulb | Each | 98.80 |
| b. | 10 Mfd for 125 watts Bulb | Each | 118.30 |
| c. | 15 Mfd for 250 Watts Bulb | Each | 157.50 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-----------|---|------|-----------------------------|
| d. | 20 Mfd for 400 watts Bulb | Each | 217.90 |
| 22 | Battern type Bakelite holder for lamp | Each | 15.80 |
| 23 | Water tight bulk head fitting suitable for 100/60 watts lamp with guard heavy type (PHILIPS/ BAJAJ/ CROMPTON GREAVES) | Each | 263.40 |
| 24 | Ceiling Rose | Each | 13.15 |
| 25 | Ceiling fixtures 250/300mm complete with Gallery etc. Clear glass opac/ crystal suitable for 40/60 Watts Bulb | Each | 155.20 |
| 26. | Ceiling Luminaire with Mirror Optics suitable for 2 Nos. 9 Watts/11 Watts (Philips, Crompton / Bajaj). | Each | 983.20 |
| | (FOR ITEMS 6 TO 14,24 & 25 THE RATES ARE EXCLUSIVE OF COST OF TUBES AND LAMPS) | | |
| 27 | Fan Clamp (12mm) with 6 mm MS Side Plates & Each 45cm cross arm | Each | 105.00 |
| 28 | CALL BELLS | | |
| a. | Call bell/ Buzzar 6mm suitable for AC/DC | Each | 39.50 |
| b. | Push bell | Each | 15.80 |
| c. | Gong bell 9" size suitable for 250 V | Each | 395.00 |
| d. | Gong bell 12" size suitable for 250V | Each | 572.00 |
| 29 | WATER HEATER WITH ISI MARK (VENUS/RACILD/ EQUIVALENT) | | |
| a. | Automatic Electrical Water Heater with copper container, with Glass Wool/ Puf insulation with MS powder coated shell suitable for 25 Litres capacity 230V/1000W | Each | 4790.00 |
| b. | Automatic Electrical Water Heater with copper container, with Glass Wool/ Puf insulation with MS powder coated shell suitable for 25 Litres capacity 230V/1000W | Each | 6470.00 |
| c. | Automatic Electrical Water Heater with copper container, with Glass Wool/ Puf insulation with MS powder coated shell suitable for 35 litres capacity 230V/1000W | Each | 5550.00 |
| d. | Automatic Electrical Water Heater with copper container, with Glass Wool/ Puf insulation with MS powder coated shell suitable for 35 litres capacity 230V/1000W | Each | 7430.00 |
| II | PART 'B' | | |
| 1. | FANS – CONFORMING TO ISS 374 / 1979 | | |
| a. | AC Ceiling fan complete 1200mm (48") sweep with 300mm Down rod.(without regulator) | Each | 1090.00 |
| b. | AC Ceiling fan complete 1400mm (56") sweep with 300mm Down rod. (Without regulator) | Each | 1170.00 |
| c. | Stepped electronic 300W/450W square type fan regulator (Anchor Deluxe/Equivalent) | Each | 185.50 |

| Item | Description | Unit No. | Rates for 2018-19 in Rupees | |
|------------|--|----------|--|--------------------------------------|
| d. | Dimmer type electronic 300W/450W square type fan regulator (Anchor Deluxe/Equivalent) | Each | 148.30 | |
| e. | AC Ceiling fan complete 1200mm (48") sweep with 300mm Down rod.(without regulator) (Crompton / equivalent) | Each | 1238.00 | |
| f. | AC Ceiling fan complete 1400mm (56") sweep with 300mm Down rod (Without regulator) (Crompton / equivalent) | Each | 1335.00 | |
| 2 | EXHAUST FANS | | | |
| a. | AC Exhaust Fan 225 mm (9") sweep (Light duty) | Each | 1010.00 | |
| b. | AC Exhaust Fan 300 mm (12") sweep (Light duty) | Each | 1155.00 | |
| c. | AC Exhaust Fan 375 mm (15") sweep (Light duty) | Each | 1190.00 | |
| d. | AC Exhaust Fan 450 mm (18") sweep (Light duty) | Each | 1675.00 | |
| e. | AC Exhaust Fan 375 mm (15") sweep (Light duty) | Each | 2200.00 | |
| f. | AC Exhaust Fan 450 mm (18") sweep (Light duty) | Each | 2735.00 | |
| 3 | LOUVER SHUTTERS ARRANGEMENTS | | | |
| a. | MS/Fibre Louvers shutters arrangements for 300mm AC Exhaust Fan | Each | 210.90 | |
| b. | MS/Fibre Louvers shutters arrangements for 375mm AC Exhaust Fan | Each | 223.40 | |
| c. | MS/Fibre Louvers shutters arrangements for 450mm AC Exhaust Fan | Each | 250.00 | |
| 4 | CEILING FAN | | Higher End Havells / Crompton/ Usha / Equivalent | Lower End Almonard/ Equivalent |
| a | 48" Ceiling Fan 5 Star Rates | Each | 1,393.00 | 1239.00 |
| b | 48" Ceiling Fan Crompton High Speed | Each | 1,385.00 | 1222.00 |
| 5 | DIMMER AND REGULATOR | | | |
| a | Fan Step Regulator 100W - 1 Module | Each | 324.00 | 233.00 |
| b | Fan Step Regulator 100W - 2 Module | Each | 370.00 | 266.00 |
| III | PART "C" | | | |
| 1 | SWITCHES | | | |
| a. | 5 Amps (Flush type) | Dozen | 184.00 | |
| b. | 5 Amps (Flush type staircase) | Dozen | 229.00 | |
| 2 | DOUBLE POLE SWITCHES(GEM / HPL / HAVELLS / EQUIVALENT) | | | |
| a. | 16 Amps DP Switch with metal clad (front handle) | Each | 395.00 | |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-----------|--|------|-----------------------------|
| b. | 32 Amps DP Switch with metal clad (front handle) | Each | 810.00 |
| c. | 16 Amps DP Switch with metal clad (side handle) | Each | 326.00 |
| d. | 32Amps DP Switch with metal clad (side handle) | Each | 735.00 |
| 3. | TRIPLE POLE SWITCHES (SIDE HANDLE) (STANDARD /HPL/HAVELLS/ EQUIVALENT) | | |
| a. | 100 Amps TPN Switch with HRC fuses sheet steel double break | Each | 5550.00 |
| b. | 125 Amps TPN Switch with HRC fuses sheet steel double break | Each | 6085.00 |
| c. | 200 Amps TPN Switch with HRC fuses sheet steel double break | Each | 7865.00 |
| d. | 315 Amps TPN Switch with HRC fuses sheet steel double break | Each | 11160.00 |
| e. | 400 Amps TPN Switch with HRC fuses sheet steel double break | Each | 14370.00 |
| f. | 16 Amps TPN Metal clad switch with rewirable fuse units | Each | 843.00 |
| g | 32 Amps TPN Metal clad switch with rewirable fuse units | Each | 1245.00 |
| h | 63 Amps TPN Metal clad switch with rewirable fuse units | Each | 2710.00 |
| I | 100 Amps Metal clad switch with rewirable fuse units | Each | 5335.00 |
| j | 200 Amps Metal clad switch with rewirable fuse units | Each | 8100.00 |
| 4. | SWITCH DISCONNECTOR FUSE UNITS IN SHEET STEEL ENCLOSURE (SDF) (L&T/SIEMENS) | | |
| a | 63 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break | Each | 3430.00 |
| b | 100 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break | Each | 5770.00 |
| c | 125 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break. | Each | 6810.00 |
| d | 200 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break | Each | 8550.00 |
| e | 250 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break | Each | 10670.00 |
| f | 315 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break | Each | 12790.00 |
| g | 400 A TPN switch disconnecter fuse units in sheet steel enclosure with HRC fuses Double break | Each | 14670.00 |
| 5 | SWITCH DISCONNECTOR FUSE UNITS IN OPEN EXECUTION (INTERIOR FOR CUBICAL) (L&T/SIEMENS) | | |
| a | 63A TPN Switch disconnecter fuse units interior only with HRC fuses Double break | Each | 2265.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|---|------|-----------------------------|
| b | 100 A TPN switch disconnecter fuse units interior only with HRC fuses Double break. | Each | 4120.00 |
| c | 125 A TPN switch disconnecter fuse units interior only with HRC fuses Double break. | Each | 5620.00 |
| d | 200 A TPN switch disconnecter fuse units interior only with HRC fuses Double break. | Each | 7250.00 |
| e | 250 A TPN switch disconnecter fuse units interior only with HRC fuses Double break. | Each | 9450.00 |
| f | 315 A TPN switch disconnecter fuse units interior only with HRC fuses Double break. | Each | 11880.00 |
| g | 400 A TPN switch disconnecter fuse units interior only with HRC fuses Double break. | Each | 14020.00 |
| 6 | FUSE UNITS (ANCHOR /EQUIVALENT) | | |
| a. | 16 Amps Porcelain fuse unit (500 V) | Each | 45.60 |
| b. | 32 Amps Porcelain fuse unit (500 V) | Each | 80.70 |
| c. | 63 Amps Porcelain fuse unit (500 V) | Each | 180.00 |
| d. | 100 Amps Porcelain fuse unit (500 V) | Each | 325.00 |
| e. | 200 Amps Porcelain fuse unit (500 V) | Each | 526.00 |
| 7 | SINGLE PHASE DBS (GEM /EQUIVALENT) | | |
| a. | 4 Way DB 16 Amps /Way with fuse & Neutral Each (250V) | Each | 439.00 |
| b. | 6 Way DB 16 Amps /Way with fuse & Neutral Each (250V) | Each | 597.00 |
| c. | 8 Way DB 16 Amps /Way with fuse & Neutral Each (250V) | Each | 740.00 |
| 8 | THREE PHASE DBS(GEM /EQUIVALENT) | | |
| a. | 4 Way TPDB 16A/Way with fuse & Neutral link | Each | 1730.00 |
| b. | 6 Way TPDB 16A/Way with fuse & Neutral link | Each | 2370.00 |
| c. | 8 Way TPDB 16A/Way with fuse & Neutral link | Each | 2869.00 |
| d. | 4 Way TPDB 32A/Way with fuse & Neutral link | Each | 2190.00 |
| e. | 6 Way TPDB 32A/Way with fuse & Neutral link | Each | 2925.00 |
| f. | 8 Way TPDB 32A/Way with fuse & Neutral link | Each | 3700.00 |
| g. | 4 Way TPDB 63A/Way with fuse & Neutral link | Each | 5115.00 |
| h. | 6 Way TPDB 63A/Way with fuse & Neutral link | Each | 6580.00 |
| 9 | CHANGE OVER SWITCHES(GEM /HAVELLS / HPL/ STANDARD /EQUIVALENT) | | |
| a. | 16 Amps three phase 500 V 4 pole Change over switch | Each | 1190.00 |
| b. | 32 Amps three phase 500 V 4 pole Change over switch | Each | 1410.00 |
| c. | 63 Amps three phase 500 V 4 pole Change over switch | Each | 3080.00 |
| d. | 100 Amps three phase 500 V 4 pole Change over switch | Each | 4895.00 |
| e. | 200 Amps three phase 500 V 4 pole Change over switch | Each | 9210.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees | |
|----------|--|------|--|--------------------------------|
| | | | Higher End Crabtree / legrand / Hager / Equivalent | Lower End Orbit / Oswin / ROMA |
| 10 | MODULAR SWITCHES | | | |
| 1 | Switches 6A - 230V | | | |
| a | 6A Switch 1W - 1 Module | Each | 74.00 | 54.60 |
| b | 6A Switch 2W - 1 Module | Each | 90.40 | 64.30 |
| c | 6A Switch 1W - 1 Module with Indicator | Each | 99.40 | 70.90 |
| d | 6A Switch 1W - 1 Module with 'Light' Marking | Each | 79.80 | 57.00 |
| e | 6A Switch 1W - 1 Module with 'Fan' Marking | Each | 79.80 | 57.00 |
| 2 | Switches 16A - 230V | | | |
| a | 16A Switch 1W - 1 Module | Each | 111.60 | 79.80 |
| b | 16A Switch 2W - 1 Module | Each | 137.70 | 99.40 |
| c | 16A Switch 1W with Indicator - 1 Module | Each | 131.20 | 94.50 |
| 3 | Switches 20A - 230V | | | |
| a | 20A 1W Switch - 1 Module | Each | 145.00 | 104.30 |
| b | 20A DP 1W Switch - 2 Module | Each | 242.00 | 173.00 |
| c | 20A DP 1W Switch with Indicator - 2 Module | Each | 255.00 | 184.00 |
| 4 | Switches 25A - 230V | | | |
| a | 25A SP 1W Switch with Indicator - 1 Module | Each | 158.00 | 114.00 |
| 5 | Switches 32A - 230V | | | |
| a | 32A DP Switch with Indicator - 2 Module | Each | 308.00 | 223.00 |
| 11 | PUSH BUTTONS | | | |
| a | 6A Push Button SP - 1 Module | Each | 100.00 | 72.50 |
| b | 6A Push Button SP with Indicator - 1 Module | Each | 130.00 | 93.70 |
| c | 6A Bell Push - 1 Module | Each | 99.40 | 70.90 |
| d | 6A Bell push with Indicator - 1 Module | Each | 123.00 | 88.00 |
| e | 6A Bell Push - 2 Module | Each | 130.00 | 93.70 |
| f | 6A Bell Push with Indicator - 2 Module | Each | 153.00 | 110.00 |
| 12 | MOTOR STARTER | | | |
| a | 25A Motor Starter - 2 Module | Each | 286.00 | 206.00 |
| 13 | FLUSH MOUNTING BOXES (GI) | | | |
| a | Flush Box - 1/2 Module | Each | 36.80 | 26.60 |
| b | Flush Box - 3 Module | Each | 43.10 | 31.30 |
| c | Flush Box - 4 Module | Each | 52.50 | 37.60 |
| d | Flush Box - 6 Module | Each | 82.30 | 59.50 |
| e | Flush Box - 8 Module | Each | 101.00 | 72.90 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees | |
|-----------|--|------|--------------------------------|--------|
| | | | | |
| f | Flush Box - 8 Module (2 row x 4) | Each | 101.80 | 73.70 |
| g | Flush Box - 12/16 (2 row x 6) Module Metal Box | Each | 136.40 | 98.00 |
| h | Flush Box - 18 Module Metal Box | Each | 155.20 | 111.30 |
| 14 | SURFACE MOUNTING BOXES (PLASTIC) | | | |
| a | Surface Box - 1/2 Module | Each | 40.70 | 29.00 |
| b | Surface Box - 3 Module | Each | 43.10 | 31.30 |
| c | Surface Box - 4 Module | Each | 55.60 | 39.90 |
| d | Surface Box - 6 Module | Each | 72.10 | 52.50 |
| e | Surface Box - 8 Module | Each | 87.80 | 63.50 |
| f | Surface Box - 8 (2 row x 4) Module | Each | 101.90 | 73.70 |
| g | Metal Surface Box - 12/16 (2 row x 6) Module | Each | 154.40 | 111.30 |
| h | Metal Surface Box - 18 Module | Each | 196.80 | 141.10 |
| 15 | COMBINED PLATES (PLASTIC) | | | |
| a | 1 Metre Cover Plate | Each | 60.30 | 43.90 |
| b | 2 Metre Cover Plate | Each | 63.50 | 45.40 |
| c | 3 Metre Cover Plate | Each | 76.80 | 54.80 |
| d | 4 Metre Cover Plate | Each | 85.40 | 61.10 |
| e | 6 Metre Cover Plate | Each | 119.90 | 86.20 |
| f | 8 Metre Cover Plate | Each | 152.80 | 109.70 |
| g | 8 Metre Cover Plate (H) | Each | 153.60 | 110.50 |
| h | 12 Metre Cover Plate | Each | 191.30 | 138.00 |
| i | 18 Metre Cover Plate | Each | 241.50 | 173.20 |
| 16 | COMBINED PLATES (ALUMINIUM) | | | |
| a | 1 Metre Cover Plate | Each | 123.00 | 88.60 |
| b | 2 Metre Cover Plate | Each | 129.30 | 93.30 |
| c | 3 Metre Cover Plate | Each | 140.30 | 101.10 |
| d | 4 Metre Cover Plate | Each | 158.30 | 113.70 |
| e | 6 Metre Cover Plate | Each | 269.00 | 194.40 |
| f | 8 Metre Cover Plate | Each | 297.00 | 214.80 |
| g | 8 Metre Cover Plate (H) | Each | 378.00 | 272.00 |
| h | 12 Metre Cover Plate | Each | 491.00 | 354.00 |
| i | 18 Metre Cover Plate | Each | 648.00 | 466.00 |
| IV | PART 'D' | | | |
| 1 | PLUG AND SOCKETS | | | |
| a. | 5 Amps 3 pin and 2 pin combined flush type wall socket only. | Each | 22.90 | |
| b. | 5 Amps /15 amps.3 pin flush type wall socket only. | Each | 51.70 | |
| c. | 5 Amps 3 pin Top | Each | 32.50 | |
| d. | 15 Amps 3 pin Top | Each | 46.00 | |
| e. | 15 Amps Flush type switch | Each | 53.60 | |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees | |
|----------|---|-------|--|--------------------------------|
| f. | 10 Amps M.C plug with 3 pin Top | Each | 171.00 | |
| g. | 20 Amps M.C plug with 3 pin Top | Each | 195.00 | |
| 2 | SOCKET - 230V | | Higher End Havells / Crompton/ Usha / Equivalent | Lower End Almonard/ Equivalent |
| a | 16A 3 Pin Switched Socket - 3 Module | Each | 368.00 | 265.00 |
| b | 6A 5 pin Universal Socket - 2 Module | Each | 114.00 | 83.00 |
| c | 6/16A Socket - 3 Module | Each | 207.00 | 149.00 |
| d | 6/16A Socket - 2 Module | Each | 176.00 | 126.00 |
| | New Item | | | |
| e | 25A Flush type Wall Socket with 25A DP MCB for AC Plug | | — | 768.00 |
| 3 | SINGLE PHASE WATT HOUR METERS [HPL/EQUIVALENT] | | | |
| a. | AC single phase 230V/250V/50 HZ 5 Amps Watt Hour Meter | Each | 912.00 | |
| b. | AC single phase 230V/250V/50 HZ 10 Amps Watt Hour Meter | Each | 912.00 | |
| c. | AC single phase 230V/250V/50 HZ 20 Amps Watt Hour Meter | Each | 912.00 | |
| 4 | THREE PHASE WATT HOUR METERS (ANCHOR / EQUIVALENT) | | | |
| a. | AC 3 phase 400V 50 HZ unbalanced load 4 wire 10 Amps Watt Hour Meter | Each | 1880.00 | |
| b. | AC 3 phase 400V 50 HZ unbalanced load 4 wire 25 Amps Watt Hour Meter | Each | 1880.00 | |
| c. | AC 3 phase 400 V 50 HZ unbalanced load 4 wire 50 Amps Watt Hour Meter | Each | 2380.00 | |
| V | PART 'E' | | | |
| 1 | SERVICE CONNECTION ACCESSORIES LT. 1100V PVC ALUMINIUM CONDUCTOR ARMOURED UNDER GROUND CABLE WITH ISI MARK | | | |
| a. | 2 Core 6 sq.mm PVC armoured UG cable | Metre | 84.80 | |
| b. | 2 Core 10 sq.mm PVC armoured UG cable | Metre | 103.20 | |
| c. | 2 Core 16 sq.mm PVC armoured UG cable | Metre | 112.00 | |
| d. | 2 Core 25 sq.mm PVC armoured UG cable | Metre | 127.30 | |
| e | 3½ core 25 sq.mm. PVC Armoured UG Cable | Metre | 191.70 | |
| f | 3½ core 35 sq.mm. PVC Armoured UG Cable | Metre | 225.70 | |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|---|-------|-----------------------------|
| g | 3 ¹ / ₂ core 50 sq.mm. PVC Armoured UG Cable | Metre | 294.00 |
| h | 3 ¹ / ₂ core 70 sq.mm. PVC Armoured UG Cable | Metre | 377.00 |
| i | 3 ¹ / ₂ core 95 sq.mm. PVC Armoured UG Cable | Metre | 488.00 |
| j | 3 ¹ / ₂ core 120 sq.mm. PVC Armoured UG Cable | Metre | 596.00 |
| k | 3 ¹ / ₂ core 150 sq.mm. PVC Armoured UG Cable | Metre | 706.00 |
| l | 3 ¹ / ₂ core 185 sq.mm. PVC Armoured UG Cable | Metre | 863.00 |
| m | 3 ¹ / ₂ core 240 sq.mm. PVC Armoured UG Cable | Metre | 1094.00 |
| n | 3 ¹ / ₂ core 300 sq.mm. PVC Armoured UG Cable | Metre | 1342.00 |
| o | 3 ¹ / ₂ core 400 sq.mm. PVC Armoured UG Cable | Metre | 1710.00 |
| p | 4 core 6 sq.mm. PVC Armoured UG Cable | Metre | 109.80 |
| q | 4 core 10 sq.mm. PVC Armoured UG Cable | Metre | 120.30 |
| r | 4 core 16 sq.mm. PVC Armoured UG Cable | Metre | 158.60 |
| 2 | PVC INSULATED SINGLE CORE MULTI STRAND FIRE RETARDANT FLEXIBLE COPPER CABLE WITH ISI MARK CONFORMING TO IS 694/ 1990 | | |
| a. | 14/0.3 (1 sq.mm) | Metre | 8.30 |
| b. | 22/0.3 (1.5 sq.mm) | Metre | 13.10 |
| c. | 36/0.3 (2.5 sq.mm) | Metre | 20.30 |
| d. | 56/0.3 (4 sq.mm) | Metre | 32.20 |
| e. | 84/0.3 (6 sq.mm) | Metre | 47.70 |
| f. | 140/0.3 (10 sq.mm) | Metre | 71.60 |
| g. | 101/0.45 (16 sq.mm) | Metre | 117.00 |
| h. | 168/0.45 (25 sq.mm) | Metre | 257.00 |
| 3 | CONDUCTOR | | |
| a. | Hard drawn copper conductor(Gauge No.8 & 6) | KG | 483.00 |
| b. | 14 SWG TC wire | KG | 495.00 |
| c. | GI No.8 wire and No. 6 wire | KG | 79.70 |
| 4 | CABLE GLANDS | | |
| a. | Cable gland suitable for 2 core 4 sq.mm UG cable | Each | 17.50 |
| b. | Cable gland suitable for 2 core 6 sq.mm UG cable | Each | 21.80 |
| c. | Cable gland suitable for 2 core 10 sq.mm UG cable | Each | 26.00 |
| d. | Cable gland suitable for 2 core 16 sq.mm UG cable | Each | 38.50 |
| e. | Cable gland suitable for 2 core 25 sq.mm UG cable | Each | 46.00 |
| f. | Cable gland suitable for 3 ¹ / ₂ core 25 sq.mm UG cable | Each | 46.00 |
| g. | Cable gland suitable for 3 ¹ / ₂ core 35 sq.mm UG cable | Each | 58.40 |
| h. | Cable gland suitable for 3 ¹ / ₂ core 50 sq.mm UG cable | Each | 58.40 |
| I | Cable gland suitable for 3 ¹ / ₂ core 70 sq.mm UG cable | Each | 72.00 |
| j | Cable gland suitable for 3 ¹ / ₂ core 95 sq.mm UG cable | Each | 87.90 |
| k | Cable gland suitable for 3 ¹ / ₂ core 120 sq.mm UG cable | Each | 111.90 |
| l | Cable gland suitable for 3 ¹ / ₂ core 150 sq.mm UG cable | Each | 147.30 |
| m | Cable gland suitable for 3 ¹ / ₂ core 185 sq.mm UG Cable | Each | 174.20 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|------------|--|------|-----------------------------|
| n | Cable gland suitable for 3½ core 240 sq.mm UG cable | Each | 174.20 |
| o | Cable gland suitable for 3½ core 300 sq.mm UG cable | Each | 208.00 |
| p | Cable gland suitable for 3 ½ core 400 sq.mm UG cable | Each | 296.00 |
| q | Cable gland suitable for 3 ½ core 500 sq.mm UG cable | Each | 345.00 |
| r | Cable gland suitable for 4 core 6 sq.mm UG cable | Each | 21.80 |
| s | Cable gland suitable for 4 core 10 sq.mm UG cable | Each | 26.00 |
| t | Cable gland suitable for 4 core 25 sq.mm UG cable | Each | 46.00 |
| 5 | FUSE WIRE (COPPER) | | |
| a. | 5 Amps fuse wire | Kg | 483.00 |
| b. | 10 Amps fuse wire | Kg | 483.00 |
| c. | 20 Amps fuse wire | Kg | 483.00 |
| 6 | NEUTRAL LINK 15 AMPS | | |
| a. | 4 way Neutral Link | Each | 24.00 |
| b. | 6 way Neutral Link | Each | 35.50 |
| c. | 8 way Neutral Link | Each | 44.30 |
| d. | 12 way Neutral Link | Each | 64.30 |
| VI | PART ' F ' | | |
| 1 | M.S. BOX WITH PAINTING (16 SWG) | | |
| a. | M.S Box of Size (100 x 100 x 75mm) | Each | 38.70 |
| b. | M.S Box of Size (150 x 100 x 75mm) | Each | 53.50 |
| c. | M.S Box of Size (200 x 150 x 75mm) | Each | 87.00 |
| d. | M.S Box complete with Lock & Key arrangements with painting of size (300 x 200 x 100 mm) | Each | 263.00 |
| VII | PART ' G ' | | |
| 1 | MS ANGLES | | |
| a. | 1½" x 1½" x ¼" (37.5 x 37.5 x 6.24 mm)(1M= 3.25 Kg) | KG | 43.90 |
| b. | 1½" x 1½" x ½" (37.5 x 37.5 x 12.5mm) | KG | 43.90 |
| c. | 2" x 2" x ½" (50 x 50 x 12.5 mm) | KG | 43.90 |
| 2 | ALUMINIUM FLAT | | |
| a. | Aluminium Flat (1"x ¼") (25x 6.25 mm) | KG | 152.80 |
| b. | Aluminium Flat (1"x1/8") | KG | 152.80 |
| 3 | COPPER FLAT | | |
| a. | Copper Flat (25 x 3 mm) | KG | 443.00 |
| b. | Copper Flat (25 x 6 mm) | KG | 443.00 |
| c. | Copper Flat (33 x 6 mm) | KG | 443.00 |
| d. | Copper Flat (50 x 6 mm) | KG | 443.00 |
| 4 | POWER CAPACITOR | | |
| a. | Power capacitor for power factor improvement with oil filled with discharge resistance 3 phase 415/440V 50 Hz conforming to IS:2384 with ISI marking | KVAR | 301.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------|--|-------|-----------------------------|
| VIII | PART ' H ' | | |
| 1 | CONDUIT MATERIALS 16 Gauge | | |
| a. | Conduit pipe 16 mm (5/8") Heavy Gauge | Metre | 26.30 |
| b. | Conduit pipe 19 mm (3/4") Heavy Gauge | Metre | 27.20 |
| c. | Conduit pipe 25 mm (1") Heavy Gauge | Metre | 33.40 |
| d. | Conduit pipe 32 mm (1¼") Heavy Gauge | Metre | 43.90 |
| e. | Conduit pipe 38 mm (1½") Heavy Gauge | Metre | 51.70 |
| 2 | CONDUIT TEE BENDS | | |
| a. | Conduit Tee bends 16 mm (5/8") | Dozen | 73.70 |
| b. | Conduit Tee bends 19 mm (3/4") | Dozen | 74.40 |
| c. | Conduit Tee bends 25 mm (1") | Dozen | 89.30 |
| d. | Conduit Tee bends 32 mm (1¼") | Dozen | 92.50 |
| e. | Conduit Tee bends 38 mm (1½") | Dozen | 115.20 |
| f. | Conduit Tee bends 50 mm (2") | Dozen | 144.00 |
| 3 | CONDUIT BENDS 16 Gauge | | |
| a. | Conduit solid bends 16 mm (5/8") | Dozen | 69.70 |
| b. | Conduit solid bends 19 mm (3/4") | Dozen | 77.60 |
| c. | Conduit solid bends 25 mm (1") | Dozen | 91.70 |
| d. | Conduit solid bends 32 mm (1¼") | Dozen | 108.20 |
| e. | Conduit solid bends 38 mm (1½") | Dozen | 153.60 |
| f. | Conduit solid bends 50 mm (2") | Dozen | 188.00 |
| 4 | CONDUIT INSPECTION BEND 16 Gauge | | |
| a. | Conduit Inspection bends 16 mm (5/8") | Dozen | 69.70 |
| b. | Conduit Inspection bends 19 mm (3/4") | Dozen | 72.10 |
| c. | Conduit Inspection bends 25 mm (1") | Dozen | 92.50 |
| d. | Conduit Inspection bends 32 mm (1¼") | Dozen | 111.30 |
| e. | Conduit Inspection bends 38mm (1½") | Dozen | 144.20 |
| f. | Conduit Inspection bends 50mm (2") | Dozen | 163.80 |
| g. | Conduit Inspection bends 65mm (2½") | Dozen | 210.90 |
| IX | PART ' I ' | | |
| 1 | PVC (RIGID) PIPES (1.8 MM THICK)WITH ISI MARK | | |
| a. | PVC rigid pipes 16mm (5/8") | Metre | 11.20 |
| b. | PVC rigid pipes 20mm (3/4") | Metre | 16.30 |
| c. | PVC rigid pipes 25mm (1") | Metre | 24.20 |
| d. | PVC rigid pipes 32mm (1¼") | Metre | 36.60 |
| e. | PVC rigid pipes 40mm (1½") | Metre | 52.30 |
| f. | PVC rigid pipes 50mm (2") | Metre | 78.30 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|---|-------------|-----------------------------|
| 2 | PVC RIGID BENDS | | |
| a. | PVC rigid bends 16mm (5/8") | Each | 2.60 |
| b. | PVC rigid bends 20mm (3/4") | Each | 2.60 |
| c. | PVC rigid bends 25mm (1") | Each | 3.55 |
| d. | PVC rigid bends 32mm (1¼") | Each | 6.35 |
| e. | PVC rigid bends 40mm (1½") | Each | 15.80 |
| f. | PVC rigid bends 50mm (2") | Each | 19.20 |
| 3 | PVC COUPLES | | |
| a. | PVC Couples 16mm (5/8") | Dozen | 11.25 |
| b. | PVC Couples 19mm (3/4") | Dozen | 11.25 |
| c. | PVC Couples 25mm (1") | Dozen | 21.95 |
| d. | PVC Couples 32mm (1¼") | Dozen | 50.10 |
| e. | PVC Couples 38mm (1½") | Dozen | 107.40 |
| f. | PVC Couples 50mm (2") | Dozen | 112.10 |
| 4 | PVC TEES | | |
| a. | PVC Tees 16mm (5/8") | Dozen | 11.25 |
| b. | PVC Tees 19mm (3/4") | Dozen | 13.05 |
| c. | PVC Tees 25mm (1") | Dozen | 16.70 |
| d. | PVC Tees 32mm (1¼") | Dozen | 74.80 |
| e. | PVC Tees 38mm (1½") | Dozen | 240.00 |
| f. | PVC Tees 50mm (2") | Dozen | 263.00 |
| 5 | PVC Saddles | | |
| a. | PVC Saddles 16 mm (5/8") | Dozen | 2.60 |
| b. | PVC Saddles 19mm (3/4") | Dozen | 3.00 |
| c. | PVC Saddles 25mm (1") | Dozen | 3.45 |
| d. | PVC Saddles 32mm (1¼") | Dozen | 4.35 |
| e. | PVC Saddles 38mm (1½") | Dozen | 5.25 |
| f. | PVC Saddles 50mm (2") | Dozen | 10.50 |
| 6 | PVC JUNCTION BOXES | | |
| a. | Junction boxes 1,2,3 & 4 way 16 mm (5/8") | Dozen | 35.10 |
| b. | Junction boxes 1,2,3 & 4 way 19 mm (3/4") | Dozen | 35.10 |
| c. | Junction boxes 1,2,3 & 4 way 25 mm (1") | Dozen | 41.30 |
| d. | Junction boxes 1,2,3 & 4 way 32 mm (1¼") | Dozen | 91.70 |
| e. | Junction boxes 1,2,3 & 4 way 38 mm (1½") | Dozen | 108.90 |
| 7 | PVC Hylem sheets | | |
| a. | Hylem sheet 3 mm thick | Sq.m | 537.00 |
| 8 | Insulation Tape PVC | | |
| a. | PVC Insulation Tape (19mm) | Roll/10 mts | 13.05 |
| b. | Empire Tape (12 mm) | Roll/10 mts | 17.55 |
| c. | Empire Tape (19 mm) | Roll/10 mts | 21.05 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees | |
|------------|---|-----------|-----------------------------|--------|
| X | PART ' J ' | | | |
| 1 | TEAK WOOD MATERIALS | | | |
| | T.W. BOX CONCEALED TYPE | | | |
| a. | T.W. Box concealed type 12"x8"x3" | Each | | 66.00 |
| b. | T.W.Box concealed type 8"x6"x3" | Each | | 35.10 |
| c. | T.W. Box concealed type 6"x4"x3" | Each | | 15.70 |
| d. | T.W. Box concealed type 4"x4"x3" | Each | | 13.05 |
| e. | T.W. plugs 1½" x 1" x2" | 1000 Nos. | | 272.00 |
| f. | T.W. Round blocks | 100 Nos. | | 527.00 |
| XI | PART ' K ' | | | |
| 1 | CRIMPING LUGS SUITABLE FOR THE FOLLOWING SIZES | | | |
| | Size | | Aluminium | Copper |
| a. | 4 Sq.mm | Each | 1.25 | 3.75 |
| b. | 6 Sq.mm | Each | 1.40 | 3.75 |
| c. | 10 Sq.mm | Each | 1.80 | 4.75 |
| d. | 16 Sq.mm | Each | 1.80 | 5.70 |
| e. | 25 Sq.mm | Each | 2.75 | 9.55 |
| f. | 35 Sq.mm | Each | 3.65 | 10.50 |
| g. | 50 Sq.mm | Each | 5.45 | 12.40 |
| h. | 70 Sq.mm | Each | 7.30 | 20.10 |
| i. | 95 Sq.mm | Each | 8.30 | 24.90 |
| j. | 120 Sq.mm | Each | 11.05 | 34.40 |
| k. | 150 Sq.mm | Each | 14.70 | 44.00 |
| l. | 185 Sq.mm | Each | 19.30 | 67.00 |
| m. | 225 Sq.mm | Each | 28.60 | 95.60 |
| n. | 240 Sq.mm | Each | 31.30 | 95.60 |
| o. | 300 Sq.mm | Each | 43.30 | 129.00 |
| p. | 400 Sq.mm | Each | 64.60 | 196.00 |
| 2 | CABLE ROUTE INDICATOR | | | |
| a. | Cable route indicator for L.T/ cable | Each box | | 63.90 |
| b. | Cable route indicator for H.T/ cable | Each box | | 63.90 |
| XII | PART ' L ' | | | |
| 1 | BRASS SCREWS | | | |
| a. | Brass Screws (20mm) ¾" No.6 | Gross | | 57.10 |
| b. | Brass Screws (25mm) 1" No.6 | Gross | | 61.50 |
| c. | Brass Screws (40mm) 1½" No.6 | Gross | | 65.90 |
| d. | Brass Screws (20mm) ¾" No.8 | Gross | | 57.10 |
| e. | Brass Screws (25mm) 1" No.8 | Gross | | 61.50 |
| f. | Brass Screws (50mm)2" No.10 | Gross | | 127.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees | |
|----------|---|--------|-----------------------------------|---|
| g. | Brass screws (75mm)3" No.10 | Gross | 188.00 | |
| 2 | Coach screws 2"x¼" (50 x 6.25mm) | Dozen | 11.35 | |
| 3 | CONDUIT SADDLES | | | |
| a. | Conduit Saddles 16mm (5/8") | Gross | 35.10 | |
| b. | Conduit Saddles 19mm (3/4") | Gross | 37.40 | |
| c. | Conduit Saddles 25mm (1") | Gross | 43.90 | |
| d. | Conduit Saddles 32mm (1¼") | Gross | 57.10 | |
| e. | Conduit Saddles 38mm (1½") | Gross | 70.00 | |
| f. | Conduit Saddles 50mm (2") | Gross | 79.00 | |
| g. | Conduit Saddles 65mm (2½") | Gross | 90.00 | |
| 4 | SODIUM VAPOUR FITTINGS & LAMP | | | |
| | (For External Electrification & Campus lighting) | | | |
| a. | 250 Watts Sodium Vapour fittings | Each | 2890.00 | |
| b. | 250 Watts Sodium Vapour lamp | Each | 639.00 | |
| c. | 150 Watts Sodium Vapour fittings | Each | 2850.00 | |
| d. | 150 Watts Sodium Vapour lamp | Each | 548.00 | |
| e. | 70 Watts Sodium Vapour fittings | Each | 2300.00 | |
| f. | 70 Watts Sodium Vapour lamp | Each | 365.00 | |
| 5 | SODIUM VAPOUR LAMP FITTING SINGLE PIECE DIE CAST ALUMINIUM HOUSING & LAMP FOR HEAVY TRAFFIC ROADS (PHILIPS/ CROMPTON CREAVES/ WIPRO/BAJAJ) | | | |
| a. | 400 Watts sodium vapour fittings | Each | 8640.00 | |
| b. | 400 Watts sodium vapour lamp | Each | 896.00 | |
| c. | 250 Watts sodium vapour fittings | Each | 5900.00 | |
| d. | 250 Watts sodium vapour lamp | Each | 725.00 | |
| e. | 150 Watts sodium vapour fittings | Each | 5540.00 | |
| f. | 150 Watts sodium vapour lamp | Each | 595.00 | |
| g. | 70 Watts sodium vapour fittings | Each | 2370.00 | |
| h. | 70 Watts sodium vapour lamps | Each | 410.00 | |
| 6 | MINIATURE CIRCUIT BREAKERS 240 V/415 V 50HZ AC SUPPLY SUITABLE FOR BOTH LIGHTING AND MOTOR CIRCUITS. | (Unit) | Legrand/ Hager / Equivalent | All other makes with ISI (Std.) / HPL / Havells / Equivalent) |
| a. | Single pole 6A to 32A,10 KA | Each | 167.00 | 122.00 |
| b. | Single pole 40A , 10 KA | Each | 342.00 | 255.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees | |
|----------|---|------|-----------------------------|--|
| | | | Legrand (MDS)/ Hager (L&T) | All other Makes with ISI (Std)/ HPL/ Havell's/ equivalent) |
| c. | Single pole & Neutral 6A to 32A, 10 KA | Each | 488.00 | 370.00 |
| d. | Single pole & Neutral 40A, 10 KA | Each | 792.00 | 512.00 |
| e. | Double pole 6A to 32A, 10 KA | Each | 488.00 | 406.00 |
| f. | Double pole 40A, 10 KA | Each | 792.00 | 556.00 |
| g. | Triple pole 6A to 32A, 10 KA | Each | 785.00 | 613.00 |
| h. | Triple pole 63A, 10 KA | Each | 1195.00 | 975.00 |
| I | Triple pole & Neutral 6A to 32A, 10 KA | Each | 1035.00 | 798.00 |
| j. | Triple pole & Neutral 63A, 10 KA | Each | 1545.00 | 1230.00 |
| k. | Four pole 6A to 32A, 10 KA | Each | 1035.00 | 855.00 |
| l. | Four pole 63A, 10 KA | Each | 1545.00 | 1310.00 |
| 7 | PLUG AND SOCKETS IN SHEET STEEL ENCLOSURE WITHOUT MCBS | | | |
| a. | 10A single Pole | Each | 809.00 | 480.00 |
| b | 20A Single Pole | Each | 864.00 | 485.00 |
| c. | 20A Double Pole | Each | 935.00 | — |
| d. | 20A Triple Pole | Each | 1585.00 | 920.00 |
| e. | 32A Triple Pole | Each | 1890.00 | 1245.00 |
| f. | 63A Triple Pole | Each | 7700.00 | — |
| | New Item | | | |
| 8 | Sheet Steel Enclosure for MCB's | | Legrand/ Equivalent | Havelet/ Equivalent |
| a | 2 Pole | Each | 359.00 | 250.00 |
| b | 4 pole | Each | 525.00 | 305.00 |
| 9 | RCCB/ ELCB | | | |
| a. | 10 Amps 30 MA DP | Each | 2280.00 | 1675.00 |
| b | 25 Amps 30 MA DP | Each | 1880.00 | 1440.00 |
| c. | 40 Amps 30 MA DP | Each | 2080.00 | 1520.00 |
| 10 | RCCB/ELCB (FOUR POLE) | | | |
| a. | 25 Amps 30 MA | Each | 2590.00 | 1775.00 |
| b | 40 Amps 30 MA | Each | 2620.00 | 1815.00 |
| c. | 63 Amps 30 MA | Each | 3030.00 | 2060.00 |
| 11 | HRC FUSES | | | |
| a. | 16 Amps | Each | 58.40 | 28.60 |
| b | 32 Amps | Each | 60.60 | 47.90 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees | |
|-------------|--|------|--|---|
| | | | | |
| c. | 63 Amps | Each | 125.00 | 60.20 |
| d. | 125 Amps | Each | 292.00 | 133.50 |
| e. | 160 Amps | Each | 365.00 | 180.00 |
| f. | 200 Amps | Each | 376.00 | 180.00 |
| g. | 250 Amps | Each | 522.00 | 266.00 |
| 12 | MCB ISOLATORS | | | |
| | | | Legrand (MDS) / Hager (L&T) / Equivalent | All other makes with ISI (Std.) / HPL / Havells / Equivalent) |
| a | 32A -DP | Each | 257.00 | — |
| b | 32A - TP | Each | 429.00 | — |
| c | 32A -FP | Each | 490.00 | — |
| d | 40A -DP | Each | 355.00 | 246.00 |
| e | 40A - TP | Each | 614.00 | 451.00 |
| f | 40A -FP | Each | 789.00 | 551.00 |
| g | 63A -DP | Each | 476.00 | 312.00 |
| h | 63A - TP | Each | 714.00 | 491.00 |
| i | 63A -FP | Each | 864.00 | 575.00 |
| j | 100A -DP | Each | — | 403.00 |
| k | 100A - TP | Each | 570.00 | 640.00 |
| l | 100A -FP | Each | 910.00 | 700.00 |
| XIII | PART "M" | | | |
| | New Items | | | |
| 1 | TRANSFORMERS | | Unit | Kirloskar / CREL / Rowsons / (OEM |
| a | 250 KVA, 11 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2) | Each | | 805000.00 |
| b | 500 KVA, 11 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2) | Each | | 1105000.00 |
| c | 630 KVA, 11 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2) | Each | | 1415000.00 |
| d | 1000 KVA, 11 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2) | Each | | 1805000.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|--|------|--------------------------------|
| e | 250 KVA, 22 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2) | Each | 905000.00 |
| f | 500 KVA, 22 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2) | Each | 1205000.00 |
| g | 630 KVA, 22 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2) | Each | 1515000.00 |
| h | 1000 KVA, 22 KV / 433 V Outdoor Oil Cooled Transformer with off Circuit (As per IS 1180-Level 2) | Each | 1905000.00 |
| 2 | 11 KV INDOOR VACCUM CIRCUIT BREAKER | | Megawin/ Pentagon/ (OEM) |
| a | 11 KV, 25 KA, 630 A, HT Indoor Single Panel Vaccum Circuit Breaker (1 I/C + 2 O/G) complete as per specification | Each | 391000.00 |
| b | 11 KV, 25 KA, 630 A, HT Indoor Three Panel Vaccum Circuit Breaker (1 I/C + 2 O/G) complete as per specification | Each | 995000.00 |
| c | 11 KV, 25 KA, 630 A, HT Indoor Four Panel Vaccum Circuit Breaker (1 I/C + 2 O/G) complete as per specification | Each | 1411000.00 |
| d | 11 KV, 25 KA, 630 A, HT Indoor Five Panel Vaccum Circuit Breaker (1 I/C + 2 O/G) complete as per specification | Each | 1692000.00 |
| 3 | 11 KV OUTDOOR VACCUM CIRCUIT BREAKER | | Megawin/ Pentagon/ (OEM) |
| a | 11 KV, 25 KA, 630 A, HT Outdoor Single Panel Vaccum Circuit Breaker (1 I/C + 2O/G) complete as per specification | Each | 408000.00 |
| b | 11 KV, 25 KA, 630 A, HT Outdoor Three Panel Vaccum Circuit Breaker (1 I/C + 2O/G) complete as per specification | Each | 1020000.00 |
| c | 11 KV, 25 KA, 630 A, HT Outdoor Four Panel Vaccum Circuit Breaker (1 I/C + 2O/G) complete as per specification | Each | 1428000.00 |
| d | 11 KV, 25 KA, 630 A, HT Outdoor Five Panel Vaccum Circuit Breaker (1 I/C + 2O/ G) complete as per specification | Each | 1709000.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|--|------|---------------------------------|
| 4 | 11 KV INDOOR RING MAIN GEAR (RMG) | | Megawin / Voltech / (OEM) |
| a | 11 KV, 25 KA, 630 A, HT Indoor Three Panel Ring Main Gear complete as per specification | Each | 569000.00 |
| 5 | 11 KV OUTDOOR RING MAIN GEAR (RMG) | | Megawin / Voltech / (OEM) |
| a | 11 KV, 25 KA, 630 A, HT Outdoor Three Panel Ring Main Gear complete as per specification | Each | 595000.00 |
| 6 | HT CABLES | | Polycab / Equivalent |
| a | 240 sq.mm. 3 core HT XLPE 11KV (E) SISMV11E3 x 2402797 | Mtr | 1650.00 |
| b | 300 sq.mm. 3 core HT XLPE 11KV (E) SISMV11E3 x 3002797 | Mtr | 1920.00 |
| c | 300 sq.mm. 3 core HT XLPE 11KV (UE) SISMV11U3 x 3002424 | Mtr | 2250.00 |
| 7 | CABLES, ACCESSORIES AND KITS | | Raychem RPG/ Equivalent |
| a | 120-185 sq.mm. 3 core HT Cable Indoor Terminations XLPE 11KV (E) - EPKT 3111 | Each | 9240.00 |
| b | 240-300 sq.mm. 3 core HT Cable Indoor Terminations XLPE 11KV (E) - EPKT 3121 | Each | 9860.00 |
| c | 120-185 sq.mm. 3 core HT Cable Outdoor Terminations XLPE 11KV (E) - EPKT 3362 | Each | 12770.00 |
| d | 240-300 sq.mm. 3 core HT Cable Outdoor Terminations XLPE 11KV (E) - EPKT 3372 | Each | 14360.00 |
| e | 240-400 sq.mm. 3 core HT Cable Indoor Terminations 11 KV (UE) - Belted PILC Cables - EPKT 4685 | Each | 13020.00 |
| f | 240-400 sq.mm. 3 core HT Cable Outdoor Terminations 11 KV (UE) - Belted PILC Cables - EPKT 4961 | Each | 17280.00 |
| g | 150-185 sq.mm. 3 core HT Cable Outdoor Terminations 22KV(E) Screened XLPE Cables - EPKT 5363 | Each | 18310.00 |
| h | 240-400 sq.mm. 3 core HT Cable Outdoor Terminations 22KV(E) Screened XLPE Cables-EPKT 5373 | Each | 24350.00 |
| i | 185-240 sq.mm 3 core HT Cables Straight Through Joints 22KV (E) Screened XLPE Cables-EPKJ 5118 | Each | 48000.00 |
| j | 300-400 sq.mm. 3 core HT Cable Straight Thorough Joints 22KV (E) Screened XLPE Cables - EPKJ 5119 | Each | 53500.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees | |
|------------|---|------|---|---|
| | | | 3 Star | 5 Star |
| XIV | PART "N" | | | |
| 1 | SUPPLY & INSTALLATION OF AIR-CONDITIONER WITH COPPER COIL | | Rated (Carrier / Voltas / Blue Star / Equivalent) | Rated Inverter (Carrier / Voltas / O General/ Equivalent) |
| a | 1.5 TR Split Type AC Unit | Each | 30000.00 | 40000.00 |
| b | 2.0 TR Split Type AC Unit | Each | 40000.00 | 51000.00 |
| | New Items | | | |
| c | Supply and installation of 4 KVA capacity Automatic Voltage Stabilizer with time delay relay (V-Gurad / Equivalent) | Each | 4020.00 | |
| d | Supply and installation of 5 KVA capacity Automatic Voltage Stabilizer with time delay relay (V-Gurad / Equivalent) | Each | 4465.00 | |
| e | Supply and laying of 5/8" and 3/8" copper pipe (Extra beyond 3 metres supplied with AC unit) | Each | 850.00 | |
| f | Supply and fixing of MS stand for fixing outdoor unit | Each | 985.00 | |
| 2 | SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND HANDING OVER OF AIR-COOLED SELF CONTAINED DUCTABLE AC UNITS | | | |
| | | | ETA (OEM) | |
| a | 3.0 TR Ceiling Suspended Ductable Unit | Each | 88700.00 | |
| b | 5.0 TR Ceiling Suspended Ductable Unit | Each | 153000.00 | |
| c | 8.5 TR Ceiling Suspended Ductable Unit | Each | 208900.00 | |
| d | 11 TR Ceiling Suspended Ductable Unit | Each | 269500.00 | |
| | New Item | | | |
| e | 17 TR Ceiling Suspended Ductable Unit | Each | 390000.00 | |
| f | 5.5 TR Floor Mounted Ductable Unit | Each | 324000.00 | |
| g | 8.5 TR Floor Mounted Ductable Unit | Each | 334000.00 | |
| h | 11 TR Floor Mounted Ductable Unit | Each | 368000.00 | |
| i | 17 TR Floor Mounted Ductable Unit | Each | 524000.00 | |
| | New Item | | | |
| j | 25 TR Floor Mounted Ductable Unit | Each | 630960.00 | |
| | New Items | | | |
| 3 | ACCESSORIES FOR PACKAGE AC | | | |
| a | Supply and filling of R-22 Refrigerant Gas | KG | 518.00 | |
| b | Supply and fixing of Copper Refrigerant Piping of 7/8" dia | RM | 938.00 | |
| c | Supply and fixing of Flexible Canvas Connection | Each | 2500.00 | |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|--|------|--|
| d | Supply and fixing of 50mm thick Anti Vibrating Rubber Pads | RM | 491.00 |
| e | Supply, Fabrication and erection of fabricated ducting made up of GI Sheets of 24 Gauge thickness | RM | 768.00 |
| f | Supply, Fabrication and erection of fabricated ducting made up of GI sheets of 22 Gauge thickness | Sqm. | 1027.00 |
| g | Supply, Fabrication and erection of fabricated ducting made up of GI sheets of 20 Gauge thickness | Sqm. | 1276.00 |
| h | Supply and fixing of extruded aluminum powder coated, Supply and return Air Grilles / Diffusers with Volume Control Damper | Sqm. | 7143.00 |
| i | Supply and fixing of water drain pipe line (1" PVC Pipe) | Sqm. | 58.00 |
| j | Supply, fabrication and fixing of MS Channel for Mounting the Airconditioning Indoor Unit | Each | 6607.00 |
| k | Supply, fabrication and fixing of Ms Channel for Mounting the Airconditioning Outdoor Unit | RM | 5625.00 |
| l | Supply and providing of pipeline nitrle rubber insulation for Refrigerant and drain pipe lines. | Each | 50.00 |
| m | Supply and fixing of Duct Mouth Dampers | Set | 2142.00 |
| n | Supply and providing acoustic for initial portion of ducting with 12mm thick Fibre Glass Rigid Board covered with Tissue Paper and Aluminum Perforated Sheet | Sqm. | 761.00 |
| o | Supply and providing thermal insulation of 9mm thick vidoflex with Aluminum Foil | Sqm. | 741.00 |
| p | Supply and providing Civil Concrete Block for Mounting the Airconditioning Unit | Each | 637.00 |
| q | Supply and laying of 30 sq.mm. incoming cable | RM | 346.00 |
| r | Supply and providing of 10 sq.mm. copper flexible single cable | RM | 80.00 |
| s | Supply and providing of 1.5 sq.mm. copper flexible cable | RM | 18.00 |
| t | Supply and providing of 0.5 sq.mm. 4 core flexible signal cable | RM | 15.00 |
| 4 | GENERATORS WITH STANDARD PANEL | | Kirloskar / Ashok Leyland / Equivalent |
| a | 5 KVA | Each | 183000.00 |
| b | 7.5 KVA | Each | 191000.00 |
| c | 10 KVA | Each | 216000.00 |
| d | 15 KVA | Each | 232000.00 |
| e | 20 KVA | Each | 244000.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|---|------|--|
| f | 30 KVA | Each | 297000.00 |
| g | 35 KVA | Each | 317000.00 |
| h | 40 KVA | Each | 370000.00 |
| i | 45 KVA | Each | 432000.00 |
| j | 62.5 KVA | Each | 497000.00 |
| k | 82.5 KVA | Each | 586000.00 |
| l | 100 KVA | Each | 652000.00 |
| m | 125 KVA | Each | 749000.00 |
| n | 160 KVA | Each | 1018000.00 |
| o | 200 KVA | Each | 1243000.00 |
| p | 250 KVA | Each | 1400000.00 |
| | New Item | | |
| 5 | GENERATORS WITH AUTO MAIN FAILURE (AMF) PANEL | | Kirloskar / Ashok Leyland / Equivalent |
| a | 62.5 KVA | Each | 597000.00 |
| b | 82.5 KVA | Each | 686000.00 |
| c | 100 KVA | Each | 852000.00 |
| d | 125 KVA | Each | 949000.00 |
| e | 160 KVA | Each | 1218000.00 |
| f | 200 KVA | Each | 1443000.00 |
| g | 250 KVA | Each | 1600000.00 |
| 6 | Exhaust Pipe with Silencer | RM | 2000.00 |
| 7 | PASSENGER LIFTS (G+3) | | Johnson / Kone / OTIS/ Equivalent |
| | SS 304 Grade with 1m/sec. speed with ARD | | |
| A | 8 Persons Passenger Lift Car Size (1300 x 1100) | | |
| a | Gearless Lift with Machine Room | Each | 1378000.00 |
| b | Gearless Lift without Machine Room | Each | 1444000.00 |
| B | 10 Persons Passenger Lift Car Size (1300 x 1350) | | Johnson / Kone / OTIS/ Equivalent |
| a | Gearless Lift with Machine Room | Each | 1441000.00 |
| b | Gearless Lift without Machine Room | Each | 1510000.00 |
| C | 13 Persons Passenger Lift Car Size (2000 x 1100) | | Johnson / Kone / OTIS/ Equivalent |
| a | Gearless Lift with Machine Room | Each | 1603000.00 |
| b | Gearless Lift without Machine Room | Each | 1677000.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-----------|--|------|---|
| D | 20 Persons Passenger Lift Car Size (2000 x 1500) | | Johnson / Kone / OTIS/ Equivalent |
| a | Gearless Lift with Machine Room | Each | 1993000.00 |
| b | Gearless Lift without Machine Room | Each | 2118000.00 |
| | Further increase of rate per floor for every additional floor Rs.1,00,000/- per floor. Comprehensive servicing and maintenance of lifts for further period of 2 years beyond free warranty period of one year from the date of commissioning of lifts will be paid at the rate of 5% of capital cost of lift | | |
| 8 | BED-CUM-PASSENGER LIFTS (G+3)SS 304 Grade with 1m/sec. speed with ARD | | |
| A | 15 Persons Passenger Lift Car Size (1000 x 2400) | | Kone / Equivalent |
| a | Gearless Lift with Machine Room | Each | 1750000.00 |
| b | Gearless Lift without Machine Room | Each | 1860000.00 |
| B | 20 Persons Passenger Lift Car Size (1300 x 2400) | | |
| a | Gearless Lift with Machine Room | Each | 2090000.00 |
| b | Gearless Lift without Machine Room | Each | 2177000.00 |
| C | 26 Persons Passenger Lift Car Size (1600 x 2400) | | |
| a | Gearless Lift with Machine Room | Each | 2375000.00 |
| b | Gearless Lift without Machine Room | Each | 2560000.00 |
| | Further increase of rate per floor for every additional floor Rs.1,00,000/- per floor. Comprehensive servicing and maintenance of lifts for further period of 2 years beyond free warranty period of one year from the date of commissioning of lifts will be paid at the rate of 5% of capital cost of lift | | |
| XV | PART "O" | | |
| 1 | GI STEEL TUBULAR POLE FOR STREET LIGHT | | Kumaran Pole / Oriental Pole / Equivalent |
| a | 4 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 4000mm Length | Each | 6185.00 |
| b | 4 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 4000mm Length | Each | 7040.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-----------------|--|-------------|------------------------------------|
| c | 6 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 6000mm Length | Each | 7395.00 |
| d | 6 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 76.10mm OD x 3.65mm Thick x 6000mm Length | Each | 8250.00 |
| e | 7 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4000mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.1mm OD x 3.25mm Thick x 1500mm Length | Each | 9480.00 |
| f | 7 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4000mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.10mm OD x 3.25mm Thick x 1500mm Length | Each | 10430.00 |
| g | 7.50 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.1mm OD x 3.25mm Thick x 1500mm Length | Each | 10590.00 |
| h | 7.50 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1500mm Length, 76.10mm OD x 3.25mm Thick x 1500mm Length | Each | 11700.00 |
| i | 8 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length | Each | 10900.00 |
| j | 8 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 4500mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length | Each | 12010.00 |
| k | 8.50 Metre Length Single Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 5000mm Length, | | |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|--|------|-----------------------------|
| | 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length | Each | 11620.00 |
| l | 8.50 Metre Length Double Bracket Pole with Base Plate (250 x 250 x 6mm) 114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 1750mm Length, 76.10mm OD x 3.25mm Thick x 1750mm Length | Each | 13040.00 |
| m | 9 Metre Length Single Bracket Pole with Base Plate (300 x 300 x 6mm) 114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 2000mm Length, 76.10mm OD x 3.25mm Thick x 2000mm Length | Each | 11620.00 |
| n | 9 Metre Length Double Bracket Pole with Base Plate (300 x 300 x 6mm) 114.30mm OD x 5.40mm Thick x 5000mm Length, 88.90mm OD x 4.85mm Thick x 2000mm Length, 76.10mm OD x 3.25mm Thick x 2000mm Length | Each | 13040.00 |
| o | 10 Metre Length Single Bracket Pole with Base Plate (300 x 300 x 6mm) 139.70mm OD x 4.50mm Thick x 5200mm Length, 114.30mm OD x 4.50mm Thick x 2400mm Length, 88.90mm OD x 3.25mm Thick x 2400mm Length | Each | 15390.00 |
| p | 10 Metre Length Double Bracket Pole with Base Plate (300 x 300 x 6mm) 139.70mm OD x 4.50mm Thick x 5200mm Length, 114.30mm OD x 4.50mm Thick x 2400mm Length, 88.90mm OD x 3.25mm Thick x 2400mm Length | Each | 15810.00 |
| q | 12 Metre Length Single Bracket Pole with Base Plate (300 x 300 x 6mm) 165.10mm OD x 4.50mm Thick x 5800mm Length, 139.70mm OD x 4.50mm Thick x 3100mm Length, 114.30mm OD x 3.65mm Thick x 3100mm Length | Each | 18140.00 |
| r | 10 Metre Length Double Bracket Pole with Base Plate (300 x 300 x 6mm) 165.10mm OD x 4.50mm Thick x 5800mm Length, 139.70mm OD x 4.50mm Thick x 3100mm Length, 114.30mm OD x 3.65mm Thick x 3100mm Length | Each | 20100.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|--|------|---------------------------------|
| 2 | LIGHTNING ROD | | Jef Flash / Nimbus / Equivalent |
| a | <p>Supply of Early Streamer Emission Air Terminal (ESEAT). Model: L</p> <p>The ESEAT has corrosion resistant stainless chrome body made up of AISI 316 grade of height 0.50 metres capable of working in hazardous atmosphere. The Air terminal is non-radioactive and requires no special licensing. The unit is fully autonomous (no battery, no external power supply is required), collects energy from the ambient electric field. The ESEAT model has been tested in a high voltage laboratory in accordance with NFC 17 102 in order to measure the average gain in triggering. The average gain in triggering time ("Ts) obtained during the lab test for the offered model is 60 µs. The ESEAT works on negative as well as positively polarized discharges. ESEAT has been tested for such discharges in Central Power Research Institute (CPRI). A dedicated tester is available to test the healthiness of the ESEAT on request (Page No. 37, Point No. 3 of Clause 8.6 of the Revised NFC 17-102 version 2011). ESEAT Model : L - Radius of protection : 86 Metres Level of protection considered for the Project-II level</p> | Each | 70500.00 |
| b | <p>Supply of Early Streamer Emission Air Terminal (ESEAT). Model: S Each 62700.00</p> <p>The ESEAT has corrosion resistant stainless chrome body made up of AISI 316 grade of height 0.50 metres capable of working in hazardous atmosphere. The Air terminal is non-radioactive and requires no special licensing. The unit is fully autonomous (no battery, no external power supply is required), collects energy from the ambient electric field. The ESEAT model has been tested in a high voltage laboratory in accordance with NFC 17 102 in order to measure the average gain in triggering. The average gain in triggering time ("Ts) obtained during the lab test for the offered model is 60 µs.</p> <p>The ESEAT works on negative as well as positively polarized discharges. ESEAT has been tested for such discharges in Central Power Research Institute (CPRI). A dedicated tester is available to test the healthiness of the ESEAT on request (Page No. 37, Point No. 3 of Clause 8.6 of the Revised NFC 17-102 version 2011).</p> | | |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|------------|--|------|-----------------------------|
| | ESEAT Model : S - Radius of protection : 46 Metres Level of protection considered for the Project-II level | | |
| c | MOUNTING STRUCTURE | | |
| | Supply of Standard / Special Mounting Structure of height 4.5 mts. pipe, and 300 x 300 x 8mm MS plate, 3 mts. 48mm OD class C GI outer pipe, 1.8 mtr, 38mm OD inner pipe, for roof mounting on concrete base and with FRP adapter | Each | 18800.00 |
| d | DOWN CONDUCTOR | | |
| | Supply and run of 25mm x 6mm GI Flat Down Conductor with necessary clamps / supports on wall / floor / ground for earth connection | Mtr | 109.00 |
| e | TEST LINK | | |
| | Supply of Test Link Box for each Down conductor in order to disconnect the earth termination system to enable measurement of resistance | Each | 4625.00 |
| f | EARTH ELECTRODE | | |
| | Supply and installation maintenance free GI Earthing System comprising of 50mm dia and 2 mtr. long earth electrode of low carbon steel rod with 100 micron bonding and 25 kgs. of carbon based environment friendly backfill compound and suitable clamp | Each | 8540.00 |
| g | SURGE PROTECTION | | |
| | Supply and installation Cabinet Type Class 1 and 2 Combined Model SPD to arrest surges and overvoltages in the power line due to lightning switching action etc. they must be installed in the incoming MCC panel / DB of the respective building in parallel to the power circuit. Model: PSV4-12.5/400TT (3 phase power network) | Each | 17950.00 |
| | New Items | | |
| XVI | PART "P" | | |
| | Conference type Public Address System, Projector and Motorized Screen | | BOSCH |
| 1 | Chairman Unit | Each | 14410.00 |
| 2 | Delegate Unit | Each | 12776.00 |
| 3 | Conference Controller | Set | 31955.00 |
| 4 | PA Mixer Amplifier 120W | Set | 19241.00 |
| 5 | PA Mixer Amplifier 240W | Set | 24688.00 |
| 6 | PA Booster Amplifier 480W | Set | 42634.00 |
| 7 | Wall Speaker 15W | Each | 8286.00 |

| Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|----------|---|------|-----------------------------|
| 8 | Wall Speaker 30W | Each | 12045.00 |
| 9 | Ceiling Speaker 15W | Each | 2098.00 |
| 10 | Ceiling Speaker 20W | Each | 3241.00 |
| 11 | Cordless Mic UHF (AKG) | Each | 19285.00 |
| 12 | 8 Pin Conference Mic socket with Modular Box and Front Plate (Orbit / Equivalent) | Each | 316.00 |
| 13 | 2 Core 1.5 sq.mm Shielded Copper Speaker Wire (Orbit / Equivalent) | RM | 39.10 |
| 14 | 8 Core 1.5 sq.mm PVC Copper Conference Cable (Orbit / Equivalent) | RM | 150.00 |
| 15 | 3200 Ansi Lumens Projector, XGA (1024 x 768) Resolution, Contrast Ratio : 4000:1 (Sony) | Each | 37411.00 |
| 16 | 3600 Ansi Lumens Projector, XGA (1024 x 768) Resolution, Contrast Ratio : 20000:1 (Sony) | Each | 53214.00 |
| 17 | 3300 Ansi Lumens Short Throw Projector, WXGA (1280 x 800) Resolution, Contrast Ratio : 3000 : 1 (Sony) | Each | 93750.00 |
| 18 | 6' x 4' Motorized Screen (LIBERTY) | Each | 11550.00 |
| 19 | 8' x 6' Motorized Screen (LIBERTY) | Each | 15500.00 |
| 20 | 10' x 8' Motorized Screen (LIBERTY) | Each | 18600.00 |
| 21 | 3 Feet Ceiling Mount Kit (LIBERTY) | Each | 4100.00 |
| 22 | 20 Metre HDMI Cable (LIBERTY) | Set | 4062.00 |
| 23 | 3 Core 1.5 sq.mm PVC Power cable for Projector Orbit/Equivalent | RM | 55.40 |

XVII VERTICAL THREE PHASE DISTRIBUTION BOARD WITH MCBS

4 Way / 8 way / 12 Way Vertical TPMCB sheet steel distribution boards Flush type/ Surface type fitted with Bus bars and Neutral links with single / three phase MCB outgoing and separate 4 way provision for accommodating one No.4 pole incoming MCB / Isolator and another separate 4 way provision for accommodating one No. 4 pole ELCB/RCD with label holder and provisions for taking up cable for size not less than 35 sq.mm

1. TPMCB DB WITH METAL DOOR COVER WITH IP 42 PROTECTION

| Description | No. of ways Havell's / incomer MCB/ Isolator | No.of ways incomer ELCB/RCD | No.of outgoing ways | Legrand (MDS) / HAGER (L & T) | All other makes with ISI (Std /HPL / equivalent) (Rate in Rupees) |
|--------------------|--|-----------------------------|---------------------|--------------------------------|---|
| 4 Ways 3 Phase DB | 4 | 4 | 12 | 5160.00 | 4240.00 |
| 8 Ways 3 Phase DB | 4 | 4 | 24 | 6540.00 | 5220.00 |
| 12 Ways 3 Phase DB | 4 | 4 | 36 | 8720.00 | 6420.00 |

2. TPMCB DB WITH ACRYLIC DOOR COVER WITH IP 42 PROTECTION

| Description | No. of ways incomer MCB/ Isolator | No.of ways incomer ELCB/RCD | No.of outgoing ways | Legrand (MDS) / HAGER (L & T) Rate in Rs. |
|--------------------|-----------------------------------|-----------------------------|---------------------|--|
| 4 Ways 3 Phase DB | 4 | 4 | 12 | 6230.00 |
| 8 Ways 3 Phase DB | 4 | 4 | 24 | 7930.00 |
| 12 Ways 3 Phase DB | 4 | 4 | 36 | 10550.00 |

3 New Item

| | | |
|--|------|---------|
| 6 Way Vertical TPN Distributions boards; IP43 with double door (Metal); with 12 module incomers and 18 Single Phase/ Three Phase/ MCB's outgoing; as per IS 8623 III | Each | 9563.00 |
|--|------|---------|

4. INDUSTRIAL TYPE TPMCB DB WITH IP 54 PROTECTION

| Description | No. of ways incomer MCB/ Isolator | No. of ways incomer ELCB/RCD | No. of outgoing ways | Legrand (MDS) / HAGER (L & T) Rate in Rs. |
|--------------------|-----------------------------------|------------------------------|----------------------|--|
| 4 Ways 3 Phase DB | 4 | 4 | 12 | 9640.00 |
| 8 Ways 3 Phase DB | 4 | 4 | 24 | 11640.00 |
| 12 Ways 3 Phase DB | 4 | 4 | 36 | 15600.00 |

XVIII HORIZONTAL THREE PHASE DISTRIBUTION BOARD WITH MCBS

4 way / 6 way / 8 way / 12 way TPMCB sheet steel distribution boards Flush type / Surface type fitted with Bus bars and Neutral links with single/ three phase MCB outgoing and separate 4 way provision for accommodating one No. 4 pole incoming MCB / Isolator and another separate 4 way provision for accommodating one No. 4 pole ELCB / RCD with label holder and provisions for taking up cable for size not less than 35 sq.mm

1. TPMCB DB WITH METAL DOOR COVER WITH IP 42 PROTECTION

| Description | No. of ways Havell's / incomer MCB/ Isolator | No. of ways incomer ELCB/RCD | No. of outgoing ways | Legrand (MDS) / HAGER (L & T) | All other makes with ISI (Std /HPL / equivalent) (Rate in Rupees) |
|--------------------|--|------------------------------|----------------------|--------------------------------|---|
| 4 Ways 3 Phase DB | 4 | 4 | 12 | 2160.00 | 1710.00 |
| 6 Ways 3 Phase DB | 4 | 4 | 18 | 2660.00 | 2160.00 |
| 8 Ways 3 Phase DB | 4 | 4 | 24 | 3190.00 | 2650.00 |
| 12 Ways 3 Phase DB | 4 | 4 | 36 | 4710.00 | 3600.00 |

2. TPMCB DB WITH ACRYLIC DOOR COVER WITH IP 42 PROTECTION

| Description | No. of ways incomer MCB/ Isolator | No. of ways incomer ELCB/RCD | No. of outgoing ways | Legrand (MDS) / HAGER (L & T) Rate in Rs. |
|--------------------|-----------------------------------|------------------------------|----------------------|--|
| 4 Ways 3 Phase DB | 4 | 4 | 12 | 2510.00 |
| 6 Ways 3 Phase DB | 4 | 4 | 18 | 3080.00 |
| 8 Ways 3 Phase DB | 4 | 4 | 24 | 3680.00 |
| 12 Ways 3 Phase DB | 4 | 4 | 36 | 5610.00 |

3. INDUSTRIAL TYPE TPMCB DB WITH IP 54 PROTECTION

| Description | No. of ways incomer MCB/ Isolator | No. of ways incomer ELCB/RCD | No. of outgoing ways | Legrand (MDS) / HAGER (L & T) Rate in Rs. |
|--------------------|-----------------------------------|------------------------------|----------------------|--|
| 4 Ways 3 Phase DB | 4 | 4 | 12 | 6090.00 |
| 6 Ways 3 Phase DB | 4 | 4 | 18 | 7330.00 |
| 8 Ways 3 Phase DB | 4 | 4 | 24 | 8020.00 |
| 12 Ways 3 Phase DB | 4 | 4 | 36 | 11080.00 |

XIX 7 SEGMENTS (3 TIER) 3 PHASE DISTRIBUTION BOARD WITH MCB

4 Way/6 way/8 way/12 Way TPMCB sheet steel distribution boards Flush type/Surface type fitted with Bus bars and Neutral links with single /three phase MCB out goings and separate 4 way provision for accommodating one No. 4 pole incoming MCB /Isolator and another separate 4 way provision for accommodating one No. 4 pole ELCB/RCD (Totally 8 ways in one segment)(3 x 4 ways in each segment) and separate provision for MCB /Isolator)(Totally 12 Nos.) for sub incomers in 3 segments with label holder and provisions for taking up cable for size not less than 35 sq.mm

1. New Item

| Vertical TPN Distribution Boards (with MCCB Incomer); Double Door; IP43, as per IS 8623 III; Impact resistance IK09; Frame MCCB Incomer & Single Phase/Three Phase MCBs as Outgoing (for power loads exceeding 100A) | Unit | Hager / Equivalent (Incomer 160A MCCB) | Hager / Equivalent (Incomer 250A MCCB) |
|--|------|--|--|
| 4 Way, MCCB + 12 Modules | Each | 8638.00 | 15999.00 |
| 6 Way, MCCB + 18 Modules | Each | 9985.00 | 17441.00 |
| 8 Way, MCCB + 24 Modules | Each | 10877.00 | 18663.00 |
| 12 Way, MCCB + 36 Modules | Each | 14485.00 | 19724.00 |
| 16 Way, MCCB + 48 Modules | Each | 17116.00 | 22207.00 |

2. TPMCB DB WITH METAL / ACRYLIC DOOR COVER WITH IP 42 PROTECTION

| Description | No. of ways incomer MCB/Isolator | No. of ways incomer ELCB/RCD | No. of Sub incomers | No. of outgoing ways | Legrand (MDS) /HAGER(L&T) Rate in Rupees |
|--------------------|----------------------------------|------------------------------|---------------------|----------------------|--|
| 4 Ways 3 Phase DB | 4 | 4 | 12 | 12 | 5070.00 |
| 6 Ways 3 Phase DB | 4 | 4 | 12 | 18 | 5730.00 |
| 8 Ways 3 Phase DB | 4 | 4 | 12 | 24 | 6390.00 |
| 12 Ways 3 Phase DB | 4 | 4 | 12 | 36 | 8140.00 |

XX SINGLE PHASE DISTRIBUTION BOARD WITH MCBs

4 way/8 way/12 way Vertical SPMCB sheet steel distribution boards Flush type/Surface type fitted with Bus bars and Neutral links with single phase MCB out goings and separate 2 way provision for accommodating one No. 2 pole incoming MCB /Isolator and another separate 2 way provision for accommodating one No, 2 pole ELCB/RCD with label holder and provisions for taking up cable for size not less than 35 sq.mm

1. SPMCB DB WITH METAL DOOR COVER WITH IP 42 PROTECTION

| Description | No. of ways Havell's / incomer MCB/ Isolator | No.of ways incomer ELCB/RCD | No.of outgoing ways | Legrand (MDS) / HAGER (L & T) | All other makes with ISI (Std /HPL / equivalent) (Rate in Rupees) |
|-------------------------|--|-----------------------------|---------------------|--------------------------------|---|
| 4 Ways single Phase DB | 2 | 2 | 4 | 851.00 | 556.00 |
| 8 Ways single Phase DB | 2 | 2 | 8 | 1063.00 | 760.00 |
| 12 Ways single Phase DB | 2 | 2 | 12 | 1279.00 | 978.00 |

2. SPMCB DB WITH ACRYLIC DOOR COVER WITH IP 42 PROTECTION

| Description | No. of ways incomer MCB/ Isolator | No.of ways incomer ELCB/RCD | No.of outgoing ways | Legrand (MDS) / HAGER (L & T) Rate in Rs. |
|-------------------------|-----------------------------------|-----------------------------|---------------------|--|
| 4 Ways single Phase DB | 2 | 2 | 4 | 1002.00 |
| 8 Ways single Phase DB | 2 | 2 | 8 | 1182.00 |
| 12 Ways single Phase DB | 2 | 2 | 12 | 1434.00 |

3. INDUSTRIAL TYPE TPMCB DB WITH IP 54 PROTECTION.

| Description | No. of ways incomer MCB/ Isolator | No.of ways incomer ELCB/RCD | No.of outgoing ways | Legrand (MDS) / HAGER (L & T) Rate in Rs. |
|-------------------------|-----------------------------------|-----------------------------|---------------------|--|
| 4 Ways single Phase DB | 2 | 2 | 4 | 2559.00 |
| 8 Ways single Phase DB | 2 | 2 | 8 | 2999.00 |
| 12 Ways single Phase DB | 2 | 2 | 12 | 3456.00 |

**III (H) RATES FOR CONVEYANCE OF
MATERIALS**

CONVEYANCE

1) Rates for Conveyance of C.I./G.I./D.I. Pipes and Specials

| Size | Unloading from Railway wagons or loading into Railway wagons/ Tonne | Loading into carts or lorries/ Tonne | Unloading from carts or lorries & stacking/ Tonne | Transport charges up to 8km or part thereof/ Tonne | Total/ Tonne |
|--------------------------|---|--------------------------------------|---|--|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | Rs. P. | Rs. P. | Rs. P. | Rs. P. | Rs. P. |
| Up to 125 mm | 251.62 | 165.32 | 165.32 | 154.46 | 736.72 |
| Over 125 mm up to 200 mm | 344.72 | 221.06 | 221.06 | 164.98 | 951.82 |
| Over 200 mm up to 350 mm | 423.01 | 292.44 | 292.44 | 167.97 | 1175.86 |
| Over 350 mm up to 500 mm | 529.14 | 346.34 | 346.34 | 188.96 | 1410.79 |
| Over 500 mm up to 700 mm | 638.83 | 400.35 | 400.35 | 208.39 | 1647.92 |
| Above 700mm | 718.90 | 476.91 | 476.91 | 224.94 | 1897.67 |

| For every 1 KM or part thereof | Rate per Tonne in Rupees | |
|--------------------------------|--------------------------|--------------|
| | up to 500 mm | Above 500 mm |
| Beyond 8 KM to 25 KM | 11.94 | 13.45 |
| Above 25 KM to 50 KM | 8.68 | 10.20 |
| Above 50 KM to 80 KM | 7.60 | 9.06 |
| Above 80 KM to 125 KM | 5.70 | 7.54 |
| Above 125 KM to 200 KM | 5.70 | 5.70 |
| Above 200 KM | 3.74 | 3.74 |

- Note:**
- 1) For lorry and cart consignments of capacity one Tonne and below, double the rates may be allowed, when the total quantity to be transported is within 1.00 M.T.
 - 2) For Lorry consignments from 1 to 2 Tonnes, the rates admissible for two Tonnes may be allowed, when the total quantity to be transported is within 2 M.T.
 - 3) For Lorry Consignments from 2 to 5 Tonnes, the rates admissible for 5 Tonnes may be allowed, when the total quantity to be transported is within 5 M.T.
 - 4) Above 5 Tonnes of Lorry consignment, full lorry load rate of 9 Tonnes may be allowed.
 - 5) For the conveyance of E.R.W.M.S. seamless pipes and specials up to 350mm dia, the rates of C.I. Pipes of respective dia available in the Schedule of rates may be adopted.
 - 6) An extra rate of Rs. 32.90 per Tonne may be allowed for unloading from Railway wagons and stacking before loading into carts and lorries.

2) Rates for Conveyance of M.S. Pipes and Specials

| Size | Unloading from Railway wagons or loading into Railway wagons/ Tonne | Loading into carts or lorries/ Tonne | Unloading from carts or lorries & stacking/ Tonne | Transport charges up to 8km or part thereof/ Tonne | Total/ Tonne |
|--------------------------|---|--------------------------------------|---|--|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | Rs. P. | Rs. P. | Rs. P. | Rs. P. | Rs. P. |
| Up to 350 mm | 950.43 | 657.99 | 657.99 | 383.95 | 2650.35 |
| Over 350 mm up to 500 mm | 1194.14 | 779.87 | 779.87 | 425.94 | 3179.83 |
| Over 500 mm up to 700 mm | 1441.31 | 894.69 | 894.69 | 470.92 | 3701.61 |
| Above 700mm | 1618.88 | 1079.27 | 1079.27 | 509.87 | 4287.29 |

| For every 1 KM or part thereof | Rate per Tonne in Rupees | |
|--------------------------------|--------------------------|--------------|
| | up to 500 mm | Above 500 mm |
| Beyond 8 KM to 25 KM | 26.96 | 29.95 |
| Above 25 KM to 50 KM | 19.31 | 23.22 |
| Above 50 KM to 80 KM | 16.66 | 20.89 |
| Above 80 KM to 125 KM | 13.13 | 16.71 |
| Above 125 KM to 200 KM | 13.13 | 13.13 |
| Above 200 KM | 9.28 | 9.28 |

- Note :
- 1) For lorry and cart consignments of capacity one Tonne and below double the rates may be allowed, when the total quantity to be transported is within 1.00 M.T.
 - 2) For Lorry consignments from 1 to 2 Tonnes the rates admissible for two Tonnes may be allowed, when the total quantity to be transported is within 2 M.T.
 - 3) For Lorry Consignments from 2 to 5 Tonnes the rates admissible for 5 Tonnes may be allowed, when the total quantity to be transported is within 5 M.T.
 - 4) Above 5 Tonnes of Lorry consignment, full lorry load rate of 9 Tonnes may be allowed.
 - 5) An extra rate of Rs. 32.90 per Tonne may be allowed for unloading from Railway wagons and stacking before loading into carts and lorries.

3) Rates for Conveyance of R.C.C. /P.S.C/B.W.S.C. Pipes and Specials

| Size | Unloading from Railway wagons or loading into Railway wagons/ Tonne | Loading into carts or lorries/ Tonne | Unloading from carts or lorries & stacking/ Tonne | Transport charges up to 8km or part thereof/ Tonne | Total/ Tonne |
|--------------------------|---|--------------------------------------|---|--|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | Rs. P. | Rs. P. | Rs. P. | Rs. P. | Rs. P. |
| 150 mm to 200 mm | 194.94 | 149.67 | 149.67 | 176.92 | 671.21 |
| Over 200 mm up to 350 mm | 241.88 | 191.49 | 191.49 | 185.93 | 810.79 |
| Over 350 mm up to 500 mm | 302.85 | 236.70 | 236.70 | 193.47 | 969.73 |
| Over 500 mm up to 700 mm | 377.69 | 278.52 | 278.52 | 218.91 | 1153.64 |
| Above 700mm | 410.82 | 309.81 | 309.81 | 236.98 | 1267.42 |

| For every 1 KM or part thereof | Rate per Tonne in Rupees | |
|--------------------------------|--------------------------|--------------|
| | up to 500 mm | Above 500 mm |
| Beyond 8 KM to 25 KM | 10.25 | 13.73 |
| Above 25 KM to 50 KM | 6.89 | 10.42 |
| Above 50 KM to 80 KM | 5.75 | 9.44 |
| Above 80 KM to 125 KM | 5.75 | 7.54 |
| Above 125 KM to 200 KM | 5.75 | 5.75 |
| Above 200 KM | 3.80 | 3.80 |

- Note : 1) For lorry and cart consignments of capacity 1 Tonne and below, double the rates may be allowed, when the total quantity to be transported is within 1 M.T.
- 2) For Lorry consignments up to 5 MT (i.e.) above 1 MT Load, the rates admissible for 5 Tonnes may be allowed.

4) Rates for Conveyance of A.C. Pipes and Specials

| Size | Unloading from Railway wagons or loading into Railway wagons/ Tonne | Loading into carts or lorries/ Tonne | Unloading from carts or lorries & stacking/ Tonne | Transport charges up to 8km or part thereof/ Tonne | Total/ Tonne |
|--------------------------|---|--------------------------------------|---|--|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | Rs. P. | Rs. P. | Rs. P. | Rs. P. | Rs. P. |
| Up to 125 mm | 128.79 | 114.82 | 114.82 | 269.91 | 628.34 |
| Over 125 mm up to 200 mm | 175.74 | 121.83 | 121.83 | 283.42 | 702.82 |
| Over 200 mm up to 250 mm | 200.18 | 149.67 | 149.67 | 322.43 | 821.95 |
| For 300 mm | 215.82 | 156.63 | 156.63 | 331.43 | 860.52 |
| For 350 mm | 215.82 | 174.06 | 174.06 | 335.94 | 899.88 |
| For 400 mm | 224.51 | 193.21 | 193.21 | 358.45 | 969.39 |
| For 450 mm | 248.85 | 215.82 | 215.82 | 379.45 | 1059.94 |
| For 500 mm | 264.60 | 238.43 | 238.43 | 391.38 | 1132.84 |
| For 600 mm | 290.66 | 273.28 | 273.28 | 419.92 | 1257.15 |
| For 700 mm | 302.85 | 280.25 | 280.25 | 421.44 | 1284.78 |

| For every 1 KM or part thereof | Rate per Tonne in Rupees | |
|--------------------------------|--------------------------|--------------|
| | up to 500 mm | Above 500 mm |
| Beyond 8 KM to 25 KM | 20.61 | 24.09 |
| Above 25 KM to 50 KM | 12.15 | 13.94 |
| Above 50 KM to 80 KM | 11.34 | 13.24 |
| Above 80 KM to 125 KM | 9.39 | 11.34 |
| Above 125 KM to 200 KM | 7.54 | 9.39 |
| Above 200 KM | 5.75 | 7.54 |

- Note :
- 1) For lorry and cart consignments of capacity one Tonne and below double the rates may be allowed, when the total quantity to be transported is within 1 M.T.
 - 2) For Lorry consignments from 1 to 2 Tonnes the rates admissible for two Tonnes may be allowed, when the total quantity to be transported is within 2 M.T.
 - 3) For Lorry Consignments from 2 to 5 Tonnes the rates admissible for 5 Tonnes may be allowed, when the total quantity to be transported is within 5 M.T.
 - 4) Above 5 Tonnes of Lorry consignment, full lorry load rate of 9 Tonnes may be allowed.
 - 5) For the conveyance of E.R.W.M.S. seamless pipes and specials up to 350mm dia, the rates of C.I. Pipes of respective dia available in the Schedule of Rates may be adopted.
 - 6) An extra rate of Rs. 32.86/Tonne may be allowed for unloading from Railway wagons and stacking before loading into carts and lorries.

5) Rates for Conveyance of PVC/ HDPE /GRP Pipes and Specials

| Size | Unloading from Railway wagons or loading into Railway wagons/ Tonne | Loading into carts or lorries/ Tonne | Unloading from carts or lorries & stacking/ Tonne | Transport charges up to 8km or part thereof/ Tonne | Total/ Tonne |
|------------------------|---|--------------------------------------|---|--|--------------|
| | 2 | 3 | 4 | 5 | 6 |
| 1 | Rs. P. | Rs. P. | Rs. P. | Rs. P. | Rs. P. |
| 50mm to 110mm OD | 167.05 | 146.22 | 146.22 | 449.98 | 909.47 |
| 125mm to 200mm OD | 215.82 | 147.89 | 147.89 | 452.91 | 964.52 |
| Over 200mm to 315mm OD | 219.33 | 194.94 | 194.94 | 487.41 | 1096.63 |
| Over 315mm OD | 222.78 | 200.12 | 200.12 | 529.41 | 1152.43 |

| For every 1 KM or part thereof | Rate per Tonne in Rupees |
|--------------------------------|--------------------------|
| Beyond 8 KM to 25 KM | 38.85 |
| Above 25 KM to 50 KM | 25.93 |
| Above 50 KM to 80 KM | 22.73 |
| Above 80 KM to 125 KM | 16.98 |
| Above 125 KM to 200 KM | 13.18 |
| Above 200 KM | 9.39 |

- Note:**
- 1) For departmentally loading of PVC pipes and Rs. 3.10 each length (6m) Specials (excluding transport charges) Up to 110 mm dia
 - 2) For departmentally unloading of PVC pipes and Rs. 3.10 each length (6m) Specials Up to 110 mm dia
 - 3) a. For departmentally loading for Rs. 175.20 per 1 MT remaining sizes of pipes
b. For departmentally unloading for Rs. 170.20 per 1 MT remaining sizes of pipes
 - 4) An extra rate of Rs. 34.65/ Tonne may be allowed for unloading from Railway wagons and stacking before loading into carts and lorries.
 - 5) For lorry and cart consignments of capacity one Tonne and below double the rates may be allowed, when the total quantity to be transported is within 1 M.T.
 - 6) For Lorry consignments from 1 to 2 Tonnes the rates admissible for two Tonnes may be allowed, when the total quantity to be transported is within 2 M.T.
 - 7) For Lorry Consignments from 2 to 5 Tonnes the rates admissible for 5 Tonnes may be allowed, when the total quantity to be transported is within 5 M.T.

6) Rates for Conveyance of SW Pipes and Specials

| Size | Unloading from Railway wagons or loading into Railway wagons/ Tonne | Loading into carts or lorries/ Tonne | Unloading from carts or lorries & stacking/ Tonne | Transport charges up to 8km or part thereof/ Tonne | Total/ Tonne |
|----------------------|---|--------------------------------------|---|--|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | Rs. P. | Rs. P. | Rs. P. | Rs. P. | Rs. P. |
| 100 to 200 mm | 241.89 | 158.36 | 158.36 | 245.93 | 804.54 |
| Over 200 to 350 mm | 306.36 | 203.63 | 203.63 | 265.41 | 979.03 |
| Over 350 mm to 500mm | 384.65 | 245.39 | 245.39 | 287.92 | 1163.36 |

| For every 1 KM or part thereof | Rate per Tonne in Rupees |
|--------------------------------|--------------------------|
| Beyond 8 KM to 25 KM | 17.15 |
| Above 25 KM to 50 KM | 10.42 |
| Above 50 KM to 80 KM | 11.39 |
| Above 80 KM to 125 KM | 7.54 |
| Above 125 KM to 200 KM | 5.75 |
| Above 200 KM | 3.80 |

- Note:** 1) For lorry and cart consignments of capacity one Tonne and below double the rates may be allowed, when the total quantity to be transported is within 1 M.T.
- 2) An extra rate of Rs.34.65 / Tonne may be allowed for unloading from Railway wagons and stacking before loading into carts and lorries.

7) Rates for Conveyance of Pig lead and Yarn

| Size | Unloading from Railway wagons or loading into Railway wagons/ Tonne | Loading into carts or lorries/ Tonne | Unloading from carts or lorries & stacking/ Tonne | Transport charges up to 8km or part thereof/ Tonne | Total/ Tonne |
|-----------------|---|--------------------------------------|---|--|--------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | Rs. P. | Rs. P. | Rs. P. | Rs. P. | Rs. P. |
| Pig lead / Yarn | 83.47 | 71.33 | 71.33 | 89.95 | 316.08 |

| For every 1 KM or part thereof | Rate per Tonne in Rupees |
|--------------------------------|--------------------------|
| Beyond 8 KM to 25 KM | 10.26 |
| Above 25 KM to 50 KM | 8.68 |
| Above 50 KM to 80 KM | 7.60 |
| Above 80 KM to 125 KM | 5.75 |
| Above 125 KM to 200 KM | 5.75 |
| Above 200 KM | 3.80 |

Note: The above rates are basic rates only and GST extra applicable as per GO.

8 a) Rates for Conveyance of Materials by Road in Hills

| | | Rate for 2018-19 in Rupees | | | | | |
|--------|---|--|---|--|---|--|--|
| Sl.No. | Distance in Kilometre | Cement and Steel (One metric tonne) | Limestone, Laterite, Brickjelly, Wood work, Pond Ash (wet /dry) , stone dust (One Cubic Metre) | Rough Stone, Bond Stone, Cut Stone, Broken Stone jelly, Sand, Gravel, Surki, Earth, Crushed stone sand (One Cubic Metre) | Third Class Country Bricks (Kiln Burnt) (1000 nos.) | Mangalore Tiles (1000 Nos.) Machine Pressed Tiles (2000 Nos.) Hydraulically pressed Mosaic Flooring Tiles (1500 Nos.) | Bricks II class Chamber burnt Bricks (Table Moulded/Ground Moulded), Fly Ash Bricks (1000 Nos.) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Co-efficient | 1.00 | 1.10 | 1.60 | 1.35 | 1.80 | 2.25 |
| 2 | Add for every extra 1 Km and part thereof..... | | | | | | |
| a | 0 to 10 kms | 12.04 | 13.20 | 19.24 | 16.24 | 21.64 | 27.04 |
| b | 10 to 20 kms | 10.30 | 11.32 | 16.46 | 13.90 | 18.54 | 23.16 |
| c | 20 to 40 kms | 8.86 | 9.74 | 14.18 | 11.94 | 15.94 | 19.92 |
| d | 40 to 80 kms | 7.64 | 8.42 | 13.30 | 10.30 | 13.72 | 17.20 |
| e | Above 80 kms | 6.98 | 7.68 | 11.16 | 9.42 | 12.54 | 15.68 |

- Note: 1 The above rates do not include stacking charges [as per Circular Memo No.230 Wks.IV(2)/62-3 dated 10.06.1962 of Chief Engineer (General)]
- 2 For Conveyance of Materials on cart track, allow 20% extra over the above rates excluding loading and unloading charges.
- 3 For Sandy and Slushy soil tracks, add 50% extra over the above rates excluding loading and unloading charges.
- 4 The quantity for Payment towards conveyance of earth in column (5) is for the pit measured quantity at the site of excavation only.
- 5 For conveyance of laterite, broken stone jelly, etc., through lorries, the rates provided are for the volume with voids.
- 6 For all materials which finds place in column 3,4,5,6,7 & 8 above, necessary incidental charges, loading charges and unloading charges have been included already under their basic cost furnished below the head "Rates of Materials" itself. Hence, no separate incidental charges, loading and unloading charges shall be allowed for the above materials.
- 7 The above rates are basic rates only and GST extra applicable as per GO

8 b) Rates for Conveyance of Materials by Road in plains

| | | Rate for 2018-19 in Rupees | | | | | |
|----------|--|--|---|--|---|--|--|
| Sl.No. | Distance in Kilometre | Cement and Steel (One metric tonne) | Limestone, Laterite, Brickjelly, Wood work, Pond Ash (wet /dry) , stone dust (One Cubic Metre) | Rough Stone, Bond Stone, Cut Stone, Broken Stone jelly, Sand, Gravel, Surki, Earth, Crushed stone sand (One Cubic Metre) | Third Class Country Bricks (Kiln Burnt) (1000 nos.) | Mangalore Tiles (1000 Nos.) Machine Pressed Tiles (2000 Nos.) Hydraulically pressed Mosaic Flooring Tiles (1500 Nos.) | Bricks II class Chamber burnt Bricks (Table Moulded/Ground Moulded), Fly Ash Bricks (1000 Nos.) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Co efficient | 1.00 | 1.10 | 1.60 | 1.35 | 1.80 | 2.25 |
| 2 | Add for every extra 1Km and part there of | | | | | | |
| a | 0 to 10 kms | 6.02 | 6.60 | 9.62 | 8.12 | 10.82 | 13.52 |
| b | 10 to 20 kms | 5.15 | 5.66 | 8.23 | 6.95 | 9.27 | 11.58 |
| c | 20 to 40 kms | 4.43 | 4.87 | 7.09 | 5.97 | 7.97 | 9.96 |
| d | 40 to 80 kms | 3.82 | 4.21 | 6.65 | 5.15 | 6.86 | 8.60 |
| e | Above 80kms | 3.49 | 3.84 | 5.58 | 4.71 | 6.27 | 7.84 |
| 3 | Loading Charges | 92.00 | 43.90 | 30.10 | 43.20 | 43.20 | 43.20 |
| 4 | Unloading Charges | 92.00 | 43.90 | 30.10 | 43.20 | 43.20 | 43.20 |
| 5 | Add above extra for inter state works | 19.30 | 21.20 | 30.90 | 26.00 | 34.70 | 43.50 |

- Note: 1 The above rates do not include stacking charges [as per Circular Memo No.230 Wks.IV(2)/62-3 dated 10.06.1962 of Chief Engineer (General)]
- 2 For Conveyance of Materials on cart track, allow 20% extra over the above rates excluding loading and unloading charges.
- 3 For Sandy and Slushy soil tracks, add 50% extra over the above rates excluding loading and unloading charges.
- 4 The quantity for Payment towards conveyance of earth in column (5) is for the pit measured quantity at the site of excavation only.
- 5 For conveyance of laterite, broken stone jelly, etc., through lorries, the rates provided are for the volume with voids.
- 6 For all materials which finds place in column 3,4,5,6,7 & 8 above, necessary incidental charges, loading charges and unloading charges have been included already under their basic cost furnished below the head "Rates of Materials" itself. Hence, no separate incidental charges, loading and unloading charges shall be allowed for the above materials.
- 7 The above rates are basic rates only and GST extra applicable as per GO

9) Rates for Conveyance of materials by Head load

| Sl.No | Description of material | Unit | Rate for 2018-19 in Rupees | | |
|-------|---|-----------|----------------------------|---|---|
| | | | LEAD | | LIFT |
| | | | Above 10m and upto 100m | Add extra for every additional 100m or part thereof | Add extra for every 1m height or part thereof for more than 2m lift |
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Rough Stone, Broken Stone Jelly, Cut Stone, RCC Slab, Sand - Cement Block, Wooden Scantling, Wooden plank | cu.m | 76.60 | 31.80 | 8.30 |
| 2 | Lime, Lime Stone, Laterite, Brick Jelly, Earth, Sand, Gravel, Surki, Pond Ash (wet/dry), Crushed Stone Sand, Stone Dust | cu.m | 40.70 | 31.80 | 6.25 |
| 3 | a) Mangalore Tiles | 1000 Nos. | 83.00 | 41.70 | 10.50 |
| | b) Machine Pressed Tiles | 2000 Nos. | 83.00 | 41.70 | 10.50 |
| | c) Hydraulic Pressed Mosaic Flooring Tiles | 1500 Nos. | 83.00 | 41.70 | 10.50 |
| | d) Terrace Bricks, Flat Tiles and Pan Tiles | 2500 Nos. | 83.00 | 41.70 | 10.50 |
| | e) Bricks | 1000 Nos. | 83.00 | 41.70 | 10.50 |
| 4 | Cement, A.C. Sheet, Bitumen, Asphalt, Tar | M.T | 75.60 | 41.70 | 8.30 |
| 5 | Steel | M.T | 127.00 | 51.10 | 10.50 |

- Note:
- 1 Fraction of 100 metres to be rounded off to the nearest 100 metres
 - 2 The rates indicated in the table shall be applicable only to inaccessible places (i.e) the places Wherever the Bullock Carts cannot move [Chief Engineer (General) Memo No.CTO(A) / 38153 / 89 / dated 03.02.1989]
 - 3 For an initial lead of 10m and initial lift of 2m, no charge towards head load is allowable.
 - 4 The above rates are basic rates only and GST extra applicable as per GO

IV (A) RATES FOR WORKS

INFILTRATION WORKS

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|--------------------------|---|-----------------|-------------------------------------|
| 1 | Earthwork excavation above water level in light or sandy or clayey soils for manhole wells, infiltration wells, suction wells etc. including levelling the site with an initial lead of 10 metres | | |
| | First depth of 2 metres | One Cubic metre | 58.34 |
| | Second depth of 2 metres | One Cubic metre | 92.66 |
| | Third depth of 2 metres | One Cubic metre | 133.85 |
| | Fourth depth of 2 metres | One Cubic metre | 186.47 |
| 2 | Erection of Ring well below water level including all incidental charges using special tools and plants such as air compressor helmet etc. complete and including bailing out water. | | |
| a. | For 0.90 metre dia Ring well (internal) | | |
| | First depth of 2 metres | One metre | 473.62 |
| | Second depth of 2 metres | One metre | 872.87 |
| | Third depth of 2 metres | One metre | 1834.98 |
| | Fourth depth of 2 metres | One metre | 3664.23 |
| | Fifth depth of 2 metres | One metre | 7215.21 |
| | Sixth depth of 2 metres | One metre | 14441.86 |
| b. | For 1.2 metre dia Ring well (internal) | | |
| | First depth of 2 metres | One metre | 526.24 |
| | Second depth of 2 metres | One metre | 1052.48 |
| | Third depth of 2 metres | One metre | 2098.10 |
| | Fourth depth of 2 metres | One metre | 3930.78 |
| | Fifth depth of 2 metres | One metre | 7295.29 |
| | Sixth depth of 2 metres | One metre | 14574.56 |
| c. | For 1.50 metre dia Ring well (internal) | | |
| | First depth of 2 metres | One metre | 608.61 |
| | Second depth of 2 metres | One metre | 1208.06 |
| | Third depth of 2 metres | One metre | 2390.96 |
| | Fourth depth of 2 metres | One metre | 4762.47 |
| | Fifth depth of 2 metres | One metre | 9511.22 |
| | Sixth depth of 2 metres | One metre | 18941.21 |

| Schedule Item No. | Description | Unit | Rate for 2018-19 in Rupees | |
|-------------------|---|-----------|--|-----------------------|
| | | | Ordinary soil (or) loose soil sandy soil | Silt (or) clay pocket |
| 3 | Sinking well below water level including all incidental charges using special tools and plants such as air compressor, helmet etc., complete and including baling out water | | | |
| a. | For 1.0 metre dia (internal) | | | |
| | First depth of 2 metres | One metre | 692.12 | 998.71 |
| | Second depth of 2 metres | One metre | 1164.59 | 1829.26 |
| | Third depth of 2 metres | One metre | 2328.04 | 3655.08 |
| | Fourth depth of 2 metres | One metre | 4595.45 | 7298.72 |
| | Fifth depth of 2 metres | One metre | 8748.17 | 13706.26 |
| | Sixth depth of 2 metres | One metre | 16425.55 | 25653.06 |
| | Seventh depth of 2 metres | One metre | 24100.65 | 34871.41 |
| | Eighth depth of 2 metres | One metre | 31779.18 | 44088.62 |
| | Nineth depth of 2 metres | One metre | 39450.84 | 53302.39 |
| | Tenth depth of 2 metres | One metre | 47128.22 | 62520.74 |
| b. | For 1.25 metre dia (internal) | | | |
| | First depth of 2 metres | One metre | 902.62 | 1369.37 |
| | Second depth of 2 metres | One metre | 1809.81 | 2743.31 |
| | Third depth of 2 metres | One metre | 3611.61 | 5547.26 |
| | Fourth depth of 2 metres | One metre | 6475.04 | 9971.10 |
| | Fifth depth of 2 metres | One metre | 11445.72 | 17689.67 |
| | Sixth depth of 2 metres | One metre | 20667.50 | 32023.99 |
| | Seventh depth of 2 metres | One metre | 29882.42 | 46365.18 |
| | Eighth depth of 2 metres | One metre | 39101.92 | 60700.64 |
| | Nineth depth of 2 metres | One metre | 48325.99 | 75040.68 |
| | Tenth depth of 2 metres | One metre | 57542.06 | 89379.58 |
| c. | For 2.0 metre dia (internal) | | | |
| | First depth of 2 metres | One metre | 1404.83 | 2258.26 |
| | Second depth of 2 metres | One metre | 2800.51 | 4517.66 |
| | Third depth of 2 metres | One metre | 5589.58 | 9019.30 |

| Schedule Item No. | Description | Unit | Rate for 2018-19 in Rupees | |
|-------------------|-------------------------------|-----------|--|-----------------------|
| | | | Ordinary soil (or) loose soil sandy soil | Silt (or) clay pocket |
| | Fourth depth of 2 metres | One metre | 8935.78 | 16530.80 |
| | Fifth depth of 2 metres | One metre | 17466.59 | 30060.89 |
| | Sixth depth of 2 metres | One metre | 34925.18 | 56156.67 |
| | Seventh depth of 2 metres | One metre | 52380.33 | 82277.62 |
| | Eighth depth of 2 metres | One metre | 69837.77 | 108387.14 |
| | Nineth depth of 2 metres | One metre | 87297.50 | 134494.36 |
| | Tenth depth of 2 metres | One metre | 104752.65 | 160601.58 |
| d. | For 2.5 metre dia (internal) | | | |
| | First depth of 2 metres | One metre | 1770.91 | 2946.94 |
| | Second depth of 2 metres | One metre | 3683.68 | 5794.36 |
| | Third depth of 2 metres | One metre | 7363.93 | 11541.82 |
| | Fourth depth of 2 metres | One metre | 13714.27 | 21448.86 |
| | Fifth depth of 2 metres | One metre | 25534.08 | 39665.91 |
| | Sixth depth of 2 metres | One metre | 49310.98 | 74279.92 |
| | Seventh depth of 2 metres | One metre | 73083.30 | 108889.35 |
| | Eighth depth of 2 metres | One metre | 96859.05 | 143501.07 |
| | Nineth depth of 2 metres | One metre | 120631.37 | 178110.50 |
| | Tenth depth of 2 metres | One metre | 144410.55 | 212721.08 |
| e. | For 3.00 metre dia (internal) | | | |
| | First depth of 2 metres | One metre | 2288.00 | 3986.84 |
| | Second depth of 2 metres | One metre | 4537.10 | 7752.89 |
| | Third depth of 2 metres | One metre | 9063.91 | 15511.50 |
| | Fourth depth of 2 metres | One metre | 17494.05 | 29131.96 |
| | Fifth depth of 2 metres | One metre | 32695.52 | 54400.63 |
| | Sixth depth of 2 metres | One metre | 61971.62 | 94851.33 |
| | Seventh depth of 2 metres | One metre | 91246.58 | 135248.26 |
| | Eighth depth of 2 metres | One metre | 120520.40 | 175674.93 |
| | Nineth depth of 2 metres | One metre | 149793.07 | 216105.03 |
| | Tenth depth of 2 metres | One metre | 179070.32 | 256535.14 |
| f. | For 3.50 metre dia (internal) | | | |

| Schedule Item No. | Description | Unit | Rate for 2018-19 in Rupees | |
|----------------------|-------------------------------|-----------|---|--------------------------|
| | | | Ordinary soil (or) loose soil sandy soil | Silt (or) clay pocket |
| | First depth of 2 metres | One metre | 2911.48 | 4672.10 |
| | Second depth of 2 metres | One metre | 5662.80 | 9168.02 |
| | Third depth of 2 metres | One metre | 11300.43 | 18294.85 |
| | Fourth depth of 2 metres | One metre | 21159.42 | 34291.40 |
| | Fifth depth of 2 metres | One metre | 39530.92 | 65199.99 |
| | Sixth depth of 2 metres | One metre | 74899.97 | 121030.62 |
| | Seventh depth of 2 metres | One metre | 110265.58 | 176863.54 |
| | Eighth depth of 2 metres | One metre | 145638.06 | 232690.74 |
| | Nineth depth of 2 metres | One metre | 181004.82 | 288521.38 |
| | Tenth depth of 2 metres | One metre | 216375.02 | 344354.30 |
| g. | For 4.00 metre dia (internal) | | | |
| | First depth of 2 metres | One metre | 3329.04 | 5604.46 |
| | Second depth of 2 metres | One metre | 6409.83 | 10729.58 |
| | Third depth of 2 metres | One metre | 12773.90 | 21439.70 |
| | Fourth depth of 2 metres | One metre | 23990.82 | 40170.42 |
| | Fifth depth of 2 metres | One metre | 44869.97 | 74912.55 |
| | Sixth depth of 2 metres | One metre | 85071.27 | 141796.51 |
| | Seventh depth of 2 metres | One metre | 125271.43 | 208677.04 |
| | Eighth depth of 2 metres | One metre | 165470.45 | 275565.58 |
| | Nineth depth of 2 metres | One metre | 205698.06 | 341988.50 |
| | Tenth depth of 2 metres | One metre | 245875.34 | 404163.76 |
| h. | For 4.50 metre dia (internal) | | | |
| | First depth of 2 metres | One metre | 3974.26 | 6702.70 |
| | Second depth of 2 metres | One metre | 7794.07 | 13332.18 |
| | Third depth of 2 metres | One metre | 15646.49 | 26608.30 |
| | Fourth depth of 2 metres | One metre | 27212.33 | 49898.99 |
| | Fifth depth of 2 metres | One metre | 47169.41 | 93308.07 |
| | Sixth depth of 2 metres | One metre | 87728.78 | 155477.61 |
| | Seventh depth of 2 metres | One metre | 128425.44 | 217647.14 |
| | Eighth depth of 2 metres | One metre | 169059.18 | 279817.82 |

| Schedule Item No. | Description | Unit | Rate for 2018-19 in Rupees | |
|-------------------|--|-----------|--|-----------------------|
| | | | Ordinary soil (or) loose soil sandy soil | Silt (or) clay pocket |
| | Nineth depth of 2 metres | One metre | 209684.90 | 342450.68 |
| | Tenth depth of 2 metres | One metre | 250314.06 | 409334.64 |
| i. | For 5.00 metre dia (internal) | | | |
| | First depth of 2 metres | One metre | 4929.50 | 8314.59 |
| | Second depth of 2 metres | One metre | 9619.90 | 15430.27 |
| | Third depth of 2 metres | One metre | 19136.83 | 30811.35 |
| | Fourth depth of 2 metres | One metre | 35909.02 | 60337.99 |
| | Fifth depth of 2 metres | One metre | 64839.63 | 112753.78 |
| | Sixth depth of 2 metres | One metre | 126792.95 | 213643.14 |
| | Seventh depth of 2 metres | One metre | 188743.98 | 314533.65 |
| | Eighth depth of 2 metres | One metre | 250693.87 | 415424.15 |
| | Nineth depth of 2 metres | One metre | 312649.48 | 516315.80 |
| | Tenth depth of 2 metres | One metre | 374603.94 | 617207.45 |
| j. | For 6.00 metre dia (internal) | | | |
| | First depth of 2 metres | One metre | 7085.94 | 11587.58 |
| | Second depth of 2 metres | One metre | 13736.01 | 22409.82 |
| | Third depth of 2 metres | One metre | 26093.50 | 44796.75 |
| | Fourth depth of 2 metres | One metre | 51422.80 | 83936.42 |
| | Fifth depth of 2 metres | One metre | 96116.59 | 156565.55 |
| | Sixth depth of 2 metres | One metre | 182195.73 | 296234.22 |
| | Seventh depth of 2 metres | One metre | 268287.45 | 435900.61 |
| | Eighth depth of 2 metres | One metre | 354368.87 | 575568.14 |
| | Nineth depth of 2 metres | One metre | 440454.87 | 715232.23 |
| | Tenth depth of 2 metres | One metre | 526536.30 | 854899.76 |
| NOTE: | In case the water table is met with at depth of 2.00 m and below, from the bed level, an extra percentage as under may be allowed over the existing rates for items 3(a) to 3 (j) for the extra lift involved. | | | |
| | Where water table is 2.00m, below bed level and upto 4.00 m | | 15% extra | |
| | Where water table is beyond 4.00m and upto 6.00m | | 20% extra | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|--------------------------|---|-----------------|-------------------------------------|
| 4a. | Earthwork excavation above water level in light or sandy soil for infiltration gallery, syphon or connecting pipeline and connected works including refilling complete. | | |
| | First depth of 2 m | One cubic metre | 67.50 |
| | Second depth of 2 m | One cubic metre | 96.10 |
| | Third depth of 2 m | One cubic metre | 140.71 |
| | Fourth depth of 2 m | One cubic metre | 188.76 |
| b. | Earthwork excavation below water level in light or sandy soil for infiltration gallery, syphon or connecting pipe line and connected works including shoring and strutting and charges for special tools and plants for bailing/ pumping etc., such as air compressor and helmet. | | |
| | First depth of 2 m | One cubic metre | 1261.83 |
| | Second depth of 2 m | One cubic metre | 1783.50 |
| | Third depth of 2 m | One cubic metre | 2675.82 |
| | Fourth depth of 2 m | One cubic metre | 3882.74 |
| c | Earthwork excavation below water level in clayey soil for infiltration gallery for laying syphon pipe line or connecting pipe and connected works, shoring and strutting and charges for special tools and plants for bailing/pumping etc., such as air compressor and helmet. | | |
| | First depth of 2 m | One cubic metre | 2098.10 |
| | Second depth of 2 m | One cubic metre | 2916.06 |
| | Third depth of 2 m | One cubic metre | 4555.41 |
| | Fourth depth of 2 m | One cubic metre | 6817.10 |
| d | Earthwork excavation below water level in soft disintegrated rock for infiltration gallery, laying syphone pipe line/ connecting pipes etc., including shoring, strutting and charges for special tools and plants. | | |
| | First depth of 2 m | One cubic metre | 1466.61 |
| | Second depth of 2 m | One cubic metre | 1955.10 |
| | Third depth of 2 m | One cubic metre | 3045.33 |
| | Fourth depth of 2 m | One cubic metre | 5264.69 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|--------------------------|--|-----------------|------------------------------|
| NOTE (i) | For sinking wells in soil mixed with pebbles boulder of size 80 mm to 600 mm mixed with clay and silt below water level, including bailing/ pumping water and charges for special tools and plants etc., complete, an extra 20% (Twenty percentage) over the rates for items 2,3b,3c & 3d in the schedule of rates is allowed. | | |
| ii | In case the water table is met with at a depth of 2.00m and below from the bed level, an extra percentage as under may be allowed over the existing rates for items 4(b), 4(c) and 4(d) above the extra lift involved | | |
| | Where water table is 2.00m below bed level and upto 4.00m. | 10% extra | |
| | Where water table is beyond 4.00m and upto 6.00m | 15% extra | |
| Pipe laying works | | | |
| 5a | Laying stoneware pipes and open joint with fillet in the infiltration gallery excluding cost of pipes but including charges of special tools and plant etc., such as air compressor and helmet. | | |
| I | 200 mm dia stoneware pipes | One metre | 201.34 |
| ii | 225 mm dia stoneware pipes | One metre | 247.10 |
| iii | 300 mm dia stoneware pipes | One metre | 289.43 |
| iv | 350 mm dia stoneware pipes | One metre | 335.19 |
| v | 375 mm dia stoneware pipes | One metre | 416.42 |
| vi | 450 mm dia stoneware pipes | One metre | 429.00 |
| b | Laying and jointing PVC slotted pipes in the infiltration gallery excluding cost of pipes but including charges for special tools and plants etc., complete such as air compressor and helmet. | | |
| | 200 mm dia (OD) PVC pipes | One metre | 148.72 |
| | 315 mm dia (OD) PVC pipes | One metre | 228.80 |
| c | Refilling gallery trench and filter basins with clean excavated sand free from silt and clay | One cubic metre | 15.90 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|-----------------|------------------------------|
| 6 | Labour charges for laying filter media below water level in all depths as per specification for infiltration gallery works including screening cleaning and charges for special tools and plant etc., complete such as air compressor, helmets, sheet piles | | |
| a | Granite metal 6mm to 40mm | One cubic metre | 208.21 |
| b | Coarse sand passing through a sieve of four meshes to 2.5 centimetres and retained in a sieve of ten meshes to 2.5 centimetres and filling it under water | One cubic metre | 1034.18 |
| c | Coarse sand passing through a sieve of ten meshes to 2.5 centimetres and retained in a sieve of 200 meshes to 2.5 centimetres and filling it under water | One cubic metre | 392.39 |
| d. | Cost of coarse sand D-10 and D-20 for laying gallery media for a lead not exceeding 200m from the source to the place of stacking including stacking etc., complete. | One cubic metre | 266.55 |
| e. | Cost of hard granite metal of size (B.S.S.) 6 mm to 12 mm filter media (machine crushed) | One cubic metre | 1404.83 |
| | (i) NOTE: For 6(a), (b) and (c): The above rates are labour charges for laying the filter media including screening, cleaning etc., for a lead not exceeding 200 metres from the place of stacking to the point of laying the media. The cost of materials and the lead from the source to the place of stacking are to be paid for separately. | | |
| | (ii) NOTE: FOR 6(d): The above rates are applicable to cases where the screened materials is not less than 10% of the collected material. In specific cases where the screened material is less than 10% of the collected material, prior orders of the Superintending Engineer, TWAD Board are to be obtained in specific cases for increased rate of labour required. | | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|-----------|------------------------------|
| | (iii) NOTE: FOR 6(e) The above rates are applicable to cases where the screened materials is not less than 20% of the collected materials. In case where the screened materials is less than 20% of the collected material, prior orders of the Superintending Engineer, TWAD are to be obtained in specific cases for increased rate of labour required. | | |
| 7a | Lowering of C.I Pipes and specials in the trenches and laying to proper grade and alignment and as directed by the TWAD Officers. | | |
| | For depth upto 2m | | |
| | 80 mm dia C.I Pipes and Specials | One metre | 10.77 |
| | 100 mm dia C.I Pipes and Specials | One metre | 12.42 |
| | 125 mm dia C.I Pipes and Specials | One metre | 16.05 |
| | 150 mm dia C.I Pipes and Specials | One metre | 21.82 |
| | 200 mm dia C.I Pipes and Specials | One metre | 26.36 |
| | 250 mm dia C.I Pipes and Specials | One metre | 33.39 |
| | 300 mm dia C.I Pipes and Specials | One metre | 37.14 |
| | 350 mm dia C.I pipes and specials | One metre | 47.54 |
| | 400 mm dia C.I pipes and specials | One metre | 54.13 |
| | 450 mm dia C.I pipes and specials | One metre | 62.89 |
| | 500 mm dia C.I pipes and specials | One metre | 67.19 |
| | 600 mm dia C.I pipes and specials | One metre | 81.57 |
| | 700 mm dia C.I pipes and specials | One metre | 105.22 |
| | 750 mm dia C.I pipes and specials | One metre | 117.01 |
| | 800 mm dia C.I pipes and specials | One metre | 134.89 |
| | 900 mm dia C.I pipes and specials | One metre | 157.05 |
| | NOTE: i) For depth between 2m to 4m 10% over basic rates and for 4m to 6m 20% over basic rate allowed | | |
| | ii) For work of laying CI connecting pipe/ syphon basic pipe below water, double the above rates shall be allowed. | | |
| | iii) For laying pipes in sewer line except pumping main 10% more is allowed. | | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|-----------|------------------------------|
| 7a(i) | Lowering of D.I Pipes and specials in the trenches and laying to proper grade and alignment and as directed by the TWAD Officers. | | |
| | For depth upto 2m | | |
| | 80 mm dia D.I Pipes and Specials | One metre | 10.70 |
| | 100 mm dia D.I Pipes and Specials | One metre | 12.44 |
| | 125 mm dia D.I Pipes and Specials | One metre | 16.08 |
| | 150 mm dia D.I Pipes and Specials | One metre | 21.82 |
| | 200 mm dia D.I Pipes and Specials | One metre | 27.03 |
| | 250 mm dia D.I Pipes and Specials | One metre | 33.29 |
| | 300 mm dia D.I Pipes and Specials | One metre | 37.99 |
| | 350 mm dia D.I pipes and specials | One metre | 47.62 |
| | 400 mm dia D.I pipes and specials | One metre | 54.13 |
| | 450 mm dia D.I pipes and specials | One metre | 63.96 |
| | 500 mm dia D.I pipes and specials | One metre | 68.79 |
| | 600 mm dia D.I pipes and specials | One metre | 85.79 |
| | 700 mm dia D.I pipes and specials | One metre | 107.82 |
| | 750 mm dia D.I pipes and specials | One metre | 117.98 |
| | 800 mm dia D.I pipes and specials | One metre | 136.44 |
| | 900 mm dia D.I pipes and specials | One metre | 158.77 |
| | NOTE: i) For depth between 2m to 4m 10% over basic rates and for 4m to 6m 20% over basic rate allowed | | |
| | ii) For work of laying DI connecting pipe/ syphon basic pipe below water, double the above rates shall be allowed. | | |
| | iii) For laying pipes in sewer line except pumping main 10% more is allowed. | | |
| b | Lowering GI pipes and specials in the trenches and laying to proper grade and alignment and as directed by the TWAD Officers | | |
| | 15mm to 40mm dia | One metre | 10.99 |
| | 50mm to 65mm dia | One metre | 10.99 |
| | 80mm to 100mm dia | One metre | 14.78 |
| | 125mm to 150mm dia | One metre | 14.78 |
| c | Disjointing C.I. Tyton S/S pipes and specials, and lifting C.I. Pipes from the trenches and stacking at places shown by the departmental Officers. | | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|---|---|------------------------------|
| | For depth upto 2 m | | |
| | 80 mm dia C.I. Pipes and specials | One metre | 10.87 |
| | 100mm dia C.I. Pipes and specials | One metre | 12.70 |
| | 125 mm dia C.I. Pipes and specials | One metre | 14.64 |
| | 150 mm dia C.I. Pipes and specials | One metre | 20.13 |
| | 200 mm dia C.I. Pipes and specials | One metre | 21.96 |
| | 250 mm dia C.I. Pipes and specials | One metre | 34.66 |
| | 300 mm dia C.I. Pipes and specials | One metre | 36.84 |
| | 350 mm dia C.I. Pipes and specials | One metre | 47.82 |
| | 400 mm dia C.I. Pipes and specials | One metre | 51.37 |
| | 450 mm dia C.I. Pipes and specials | One metre | 60.52 |
| | 500 mm dia C.I.pipes and specials | One metre | 66.12 |
| | 600 mm dia C.I.pipes and specials | One metre | 80.77 |
| | 700 mm dia C.I.pipes and specials | One metre | 93.58 |
| | 800 mm dia C.I.pipes and specials | One metre | 102.85 |
| | 825 mm dia C.I.pipes and specials | One metre | 117.60 |
| | 900 mm dia C.I.pipes and specials | One metre | 130.30 |
| | NOTE: For depth between | % excess allowed over basic rate | |
| | 2m to 4m | 10% | |
| | 4m to 6m | 20% | |
| d. | Lowering of M.S pipes and specials into the trenches and laying to proper grade and alignment and as directed by the TWAD Officers. | | |
| | Up to 350mm dia | One metre | 33.49 |
| | 400 mm Dia | One metre | 42.93 |
| | 450 mm Dia | One metre | 47.48 |
| | 500 mm Dia | One metre | 49.63 |
| | 600 mm Dia | One metre | 64.27 |
| | 700 mm Dia | One metre | 81.77 |
| | 900 mm Dia | One metre | 115.80 |
| | 1000 mm Dia | One metre | 146.29 |
| | 1050 mm Dia | One metre | 155.39 |
| | 1100 mm Dia | One metre | 162.48 |
| | 1200 mm Dia | One metre | 168.55 |
| | 1400 mm Dia | One metre | 252.40 |
| | 1600 mm Dia | One metre | 334.58 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 10% | |
| | 4m to 6m | 20% | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|---|------------------------------|
| 8a | Jointing the C.I/ D.I - S/S pipes and specials with molten lead and Yarn including caulking the joints. (Including cost of jointing materials) | | |
| | For depth upto 2m | | |
| | 80 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 371.59 |
| | 100 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 449.95 |
| | 125 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 605.61 |
| | 150 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 686.34 |
| | 200 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 957.82 |
| | 250 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 1360.08 |
| | 300 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 1477.96 |
| | 350 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 1834.52 |
| | 400 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 2236.35 |
| | 450 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 3274.43 |
| | 500 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 3580.17 |
| | 600 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 4483.88 |
| | 700 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 4920.76 |
| | 750 mm dia C.I/ D.I - S/S pipes and specials | Each Joint | 6063.49 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 10% | |
| | 4m to 6m | 15% | |
| 8b | Jointing C.I/ D.I-S/S pipes and specials with rubber gaskets (tyton joint) including cost of lubricants. (including cost of jointing materials) For depth upto 2m | | |
| | 80 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 39.17 |
| | 100 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 49.55 |
| | 125 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 50.55 |
| | 150 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 53.55 |
| | 200 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 91.26 |
| | 250 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 124.65 |
| | 300 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 152.31 |
| | 350 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 167.31 |
| | 400 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 217.31 |
| | 450 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 306.55 |
| | 500 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 376.55 |
| | 600 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 515.55 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|---|---|------------------------------|
| | 700 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 693.65 |
| | 750 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 865.60 |
| | 800 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 1118.00 |
| | 900 mm dia C.I/ D.I-S/S pipes and specials | Each Joint | 1482.20 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 10% | |
| | 4m to 6m | 20% | |
| 8c | Jointing the C.I/ D.I Double flanged pipes and specials with rubber insertion to the required specifications with M.S. bolts and nuts, complete. (including cost of jointing materials) | | |
| | For depth upto 2m | | |
| | For works above water level | | |
| | 80 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 123.83 |
| | 100 mm dia C.I./D.I. Double flanged pipes and specials | Each Joint | 215.88 |
| | 125 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 223.90 |
| | 150 mm dia C.I./D.I. Double flanged pipes and specials | Each Joint | 359.98 |
| | 200 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 398.89 |
| | 250 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 568.29 |
| | 300 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 628.96 |
| | 350 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 815.47 |
| | 400 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 1220.48 |
| | 450 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 1418.12 |
| | 500 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 1682.02 |
| | 600 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 2322.00 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|---|---|------------------------------|
| | 700 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 2436.03 |
| | 750 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 2503.06 |
| | 800 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 2522.23 |
| | 900 mm dia C.I/ D.I Double flanged pipes and specials | Each Joint | 2969.72 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 10% | |
| | 4m to 6m | 15% | |
| 8d | Joining C.I/ D.I double flanged pipes and specials with rubber insertion or any equivalent to the required specifications with M.S. bolts and nuts etc., complete including charges for special tools and plants such as air compressor and helmets and sheet piles. etc (including cost of jointing materials) | | |
| | For depth upto 2m | | |
| | For works below water level | | |
| | 80 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 248.02 |
| | 100 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 369.40 |
| | 125 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 411.84 |
| | 150 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 588.24 |
| | 200 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 678.28 |
| | 250 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 926.53 |
| | 300 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 1022.16 |
| | 350 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 1266.64 |
| | 400 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 1740.94 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|---|------------------------------|
| | 450 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 1937.71 |
| | 500 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 2275.99 |
| | 600 mm dia C.I/ D.I Double flanged Pipes and specials | Each Joint | 3204.46 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 10% | |
| | 4m to 6m | 15% | |
| 8e | Jointing the C.I/ D.I-S/S pipes and specials with neat cement or cement mortar and spun yarn including caulking the joints, curing. (including cost of jointing materials) | | |
| | For depth upto 2m | | |
| | 80mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 89.88 |
| | 100mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 93.19 |
| | 125mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 121.04 |
| | 150mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 139.48 |
| | 200mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 221.20 |
| | 250mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 256.09 |
| | 300mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 306.28 |
| | 350mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 373.22 |
| | 400mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 429.27 |
| | 450mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 526.03 |
| | 500mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 591.01 |
| | 600mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 733.61 |
| | 700mm dia C.I/ D.I-S/S Pipes and Specials | Each Joint | 810.43 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 10% | |
| | 4m to 6m | 15% | |
| 9 | Lowering RCC pipes and specials into the trenches and laying to proper grade and alignment | | |
| | For depth upto 2m | | |
| | 150mm dia R.C.C. Pipes and Specials | One metre | 32.95 |
| | 200mm dia R.C.C. Pipes and Specials | One metre | 34.66 |
| | 250mm dia R.C.C. Pipes and Specials | One metre | 44.04 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|----------------------------------|------------------------------|
| | 300mm dia R.C.C. Pipes and Specials | One metre | 51.37 |
| | 350mm dia R.C.C. Pipes and Specials | One metre | 64.18 |
| | 400mm dia R.C.C. Pipes and Specials | One metre | 69.67 |
| | 450mm dia R.C.C. Pipes and Specials | One metre | 80.77 |
| | 500mm dia R.C.C. Pipes and Specials | One metre | 93.58 |
| | 600mm dia R.C.C. Pipes and Specials | One metre | 108.34 |
| | 700mm dia R.C.C. Pipes and Specials | One metre | 121.26 |
| | 750mm dia R.C.C. Pipes and Specials | One metre | 126.64 |
| | 800mm dia R.C.C. Pipes and Specials | One metre | 154.33 |
| | 900mm dia R.C.C. Pipes and Specials | One metre | 181.78 |
| | 1000mm dia R.C.C. Pipes and Specials | One metre | 209.47 |
| | 1100mm dia R.C.C. Pipes and Specials | One metre | 244.36 |
| | 1200mm dia R.C.C. Pipes and Specials | One metre | 272.04 |
| | 1300mm dia R.C.C. Pipes and Specials | One metre | 299.50 |
| | NOTE: For depth between | % excess allowed over basic rate | |
| | 2m to 4m | 10% | |
| | 4m to 6m | 15% | |
| i) | Each Collar joint is to be treated as one joint only | | |
| ii) | For laying RCC pipes in sewage lines, except pumping main, 5% more is allowed | | |
| 10a | Jointing RCC pipes with cement using necessary collars including the cost of jointing materials. | | |
| | For depth upto 2m | | |
| | 150mm dia R.C.C. Pipes and Specials | Each Joint | 178.12 |
| | 200mm dia R.C.C. Pipes and Specials | Each Joint | 218.50 |
| | 250mm dia R.C.C. Pipes and Specials | Each Joint | 268.27 |
| | 300mm dia R.C.C. Pipes and Specials | Each Joint | 301.44 |
| | 350mm dia R.C.C. Pipes and Specials | Each Joint | 323.52 |
| | 400mm dia R.C.C. Pipes and Specials | Each Joint | 349.15 |
| | 450mm dia R.C.C. Pipes and Specials | Each Joint | 409.78 |
| | 500mm dia R.C.C. Pipes and Specials | Each Joint | 452.22 |
| | 600mm dia R.C.C. Pipes and Specials | Each Joint | 538.60 |
| | 700mm dia R.C.C. Pipes and Specials | Each Joint | 626.80 |
| | 750mm dia R.C.C. Pipes and Specials | Each Joint | 661.92 |
| | 800mm dia R.C.C. Pipes and Specials | Each Joint | 687.54 |
| | 900mm dia R.C.C. Pipes and Specials | Each Joint | 781.12 |
| | 1000mm dia R.C.C. Pipes and Specials | Each Joint | 799.66 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|---|---|------------------------------|
| | 1100mm dia R.C.C. Pipes and Specials | Each Joint | 875.05 |
| | 1200mm dia R.C.C. Pipes and Specials | Each Joint | 970.68 |
| | 1300mm dia R.C.C. Pipes and Specials | Each Joint | 1073.64 |
| | NOTE: For depth between | % excess allowed over basic rate | |
| | 2m to 4m | 10% | |
| | 4m to 6m | 15% | |
| | Each collar joint is to be treated as one joint only. | | |
| 10b | Jointing RCC pipes with lead and hemp yarn using steel collars including the cost of jointing materials and caulking the joints. | | |
| | For depth upto 2m | | |
| | 150mm dia R.C.C. Pipes | Each steel collar | 189.22 |
| | 200mm dia R.C.C. Pipes | Each steel collar | 237.04 |
| | 250mm dia R.C.C. Pipes | Each steel collar | 281.08 |
| | 300mm dia R.C.C. Pipes | Each steel collar | 325.24 |
| | 350mm dia R.C.C. Pipes | Each steel collar | 369.40 |
| | 400mm dia R.C.C. Pipes | Each steel collar | 384.16 |
| | 450mm dia R.C.C. Pipes | Each steel collar | 481.51 |
| | 500mm dia R.C.C. Pipes | Each steel collar | 538.60 |
| | 600mm dia R.C.C. Pipes | Each steel collar | 643.39 |
| | 700mm dia R.C.C. Pipes | Each steel collar | 768.42 |
| | 800mm dia R.C.C. Pipes | Each steel collar | 884.31 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 10% | |
| | 4m to 6m | 15% | |
| 11a | Lowering AC/ GRP pipes and specials into the trench carefully, laying to proper grade and alignment, jointing of A.C/ GRP pipes with simplex joints with rubber rings or with C.I. detachable joints or with M.S. couplers. | | |
| | For depth upto 2m | | |
| | 80mm dia AC/ GRP Pipes | One metre | 16.36 |
| | 100mm dia AC/ GRP Pipes | One metre | 21.96 |
| | 125mm dia AC/ GRP Pipes | One metre | 32.95 |
| | 150mm dia AC/ GRP Pipes | One metre | 36.72 |
| | 200mm dia AC/ GRP Pipes | One metre | 49.42 |
| | 250mm dia AC/ GRP Pipes | One metre | 60.52 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|---|---|------------------------------|
| | 300mm dia AC/ GRP Pipes | One metre | 77.11 |
| | 350mm dia AC/ GRP Pipes | One metre | 86.14 |
| | 400mm dia AC/ GRP Pipes | One metre | 99.18 |
| | 450mm dia AC/ GRP Pipes | One metre | 115.77 |
| | 500mm dia AC/ GRP Pipes | One metre | 137.74 |
| | 600mm dia AC/ GRP Pipes | One metre | 165.42 |
| | 700mm dia AC/ GRP Pipes | One metre | 203.98 |
| | NOTE: For depth between | % excess allowed over basic rate | |
| | 2m to 4m | 15% | |
| | 4m to 6m | 30% | |
| 11b (i) | Lowering PVC rigid pipes and specials to trench and laying to proper grade and alignment, jointing with PVC couplers with cement paste. | | |
| | For depth upto 2m | | |
| | Upto 40mm dia (OD) PVC pipe | One metre | 6.45 |
| | 50mm to 75mm dia (OD) PVC pipe | One metre | 10.92 |
| | 90mm to 110mm dia (OD) PVC pipe | One metre | 11.02 |
| | 125mm to 160mm dia (OD) PVC pipe | One metre | 15.54 |
| | 180mm to 250mm dia (OD) PVC pipe | One metre | 20.21 |
| | Over 250mm to 315mm dia (OD) PVC pipe | One metre | 29.16 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 15% | |
| | 4m to 6m | 30% | |
| 11b (ii) | Lowering HDPE pipes and specials to trench and laying to proper grade and alignment and as directed by the TWAD Officers | | |
| | For depth upto 2m | | |
| | 50mm to 75mm dia (OD) HDPE pipe | One metre | 10.87 |
| | 90mm to 110mm dia (OD) HDPE pipe | One metre | 10.87 |
| | 125mm to 160mm dia (OD) HDPE pipe | One metre | 15.33 |
| | 180mm to 250mm dia (OD) HDPE pipe | One metre | 19.68 |
| | Over 250mm to 315mm dia (OD)HDPE pipe | One metre | 28.60 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 15% | |
| | 4m to 6m | 30% | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|---|------------------------------|
| 11c | Lowering PSC/ BWSC pipes and specials into the trench and laying to proper grade and alignment and Jointing with rubber gaskets | | |
| | For depth upto 2m | | |
| | Upto 350mm diameter | One metre | 86.14 |
| | 400mm diameter | One metre | 100.90 |
| | 450mm diameter | One metre | 117.49 |
| | 500mm diameter | One metre | 137.74 |
| | 600mm diameter | One metre | 167.02 |
| | 700mm diameter | One metre | 187.50 |
| | 800mm diameter | One metre | 203.98 |
| | 900mm diameter | One metre | 222.28 |
| | 1000mm diameter | One metre | 242.53 |
| | 1100mm diameter | One metre | 261.06 |
| | 1200mm diameter | One metre | 301.44 |
| | 1300mm diameter | One metre | 334.51 |
| | 1400mm diameter | One metre | 384.16 |
| | 1500mm diameter | One metre | 426.37 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 15% | |
| | 4m to 6m | 30% | |
| 11d | Lowering CI collars with flange into the trench and laying to proper grade and alignment and jointing PSC pipes with 2 Nos of conical rubber rings and MS bolts and nuts excluding the cost of jointing materials. | | |
| | For depth upto 2m | | |
| | Upto 350mm diameter | Each collar | 917.37 |
| | 400mm diameter | Each collar | 1073.64 |
| | 450mm diameter | Each collar | 1229.91 |
| | 500mm diameter | Each collar | 1384.24 |
| | 600mm diameter | Each collar | 1687.74 |
| | 700mm diameter | Each collar | 2147.40 |
| | 800mm diameter | Each collar | 2307.22 |
| | 900mm diameter | Each collar | 2614.38 |
| | 1000mm diameter | Each collar | 3070.50 |
| | 1100mm diameter | Each collar | 3380.98 |
| | 1200mm diameter | Each collar | 3842.58 |
| | 1300mm diameter | Each collar | 4309.56 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|----------------------------------|------------------------------|
| | NOTE: For depth between | % excess allowed over basic rate | |
| | 2m to 4m | 15% | |
| | 4m to 6m | 30% | |
| 11e | Testing of M.S. / C.I. / D.I / P.V.C. / H.D.P.E / pipes with hydraulic testing equipment by filling with water (including cost of water @ Rs. 60/KL) and testing to recommended pressure in convenient stretches and attending the bursts if any occurred during the test, excluding the cost of pipes but including other incidental and operational charges etc., complete for the following diametres of pipes. | | |
| | Up to 100mm | One metre | 47.02 |
| | 125mm | One metre | 55.37 |
| | 150mm | One metre | 62.23 |
| | 200mm | One metre | 76.08 |
| | 250mm | One metre | 95.41 |
| | 300mm | One metre | 116.23 |
| | 350mm | One metre | 136.94 |
| | 400mm | One metre | 159.13 |
| | 450mm | One metre | 182.70 |
| | 500mm | One metre | 222.85 |
| | 600mm | One metre | 265.75 |
| | 700mm | One metre | 337.71 |
| | 750mm | One metre | 394.45 |
| | 900mm | One metre | 455.31 |
| | 1050mm | One metre | 586.87 |
| | 1200mm | One metre | 737.77 |
| 12a | Cutting C.I. Pipes true to axis and filing smoothly and finishing the ends complete | | |
| | 80mm dia CI pipes | Each cutting | 32.95 |
| | 100mm dia CI pipes | Each cutting | 36.72 |
| | 125mm dia CI pipes | Each cutting | 45.76 |
| | 150mm dia CI pipes | Each cutting | 51.37 |
| | 175mm dia CI pipes | Each cutting | 60.52 |
| | 200mm dia CI pipes | Each cutting | 82.48 |
| | 250mm dia CI pipes | Each cutting | 104.68 |
| | 300mm dia CI pipes | Each cutting | 117.49 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|--------------|------------------------------|
| | 350mm dia CI pipes | Each cutting | 148.83 |
| | 375mm dia CI pipes | Each cutting | 183.84 |
| | 400mm dia CI pipes | Each cutting | 192.88 |
| | 450mm dia CI pipes | Each cutting | 207.41 |
| | 500mm dia CI pipes | Each cutting | 229.60 |
| | 525mm dia CI pipes | Each cutting | 277.42 |
| | 600mm dia CI pipes | Each cutting | 283.14 |
| | 675mm dia CI pipes | Each cutting | 338.17 |
| | 700mm dia CI pipes | Each cutting | 356.58 |
| | 750mm dia CI pipes | Each cutting | 367.68 |
| | 800mm dia CI pipes | Each cutting | 385.99 |
| | 825mm dia CI pipes | Each cutting | 420.88 |
| | 850mm dia CI pipes | Each cutting | 441.13 |
| | 900mm dia CI pipes | Each cutting | 452.22 |
| 12b | Cutting A.C. Pipes true to axis and finishing the ends complete | | |
| | 80mm dia AC pipes | Each cutting | 12.70 |
| | 100mm dia AC pipes | Each cutting | 14.64 |
| | 125mm dia AC pipes | Each cutting | 16.36 |
| | 150mm dia AC pipes | Each cutting | 20.13 |
| | 200mm dia AC pipes | Each cutting | 27.34 |
| | 250mm dia AC pipes | Each cutting | 44.04 |
| | 300mm dia AC pipes | Each cutting | 45.76 |
| | 350mm dia AC pipes | Each cutting | 55.03 |
| | 400mm dia AC pipes | Each cutting | 67.72 |
| | 450mm dia AC pipes | Each cutting | 77.11 |
| | 500mm dia AC pipes | Each cutting | 88.20 |
| | 600mm dia AC pipes | Each cutting | 100.90 |
| | 700mm dia AC pipes | Each cutting | 112.00 |
| 12c | Cutting P.V.C. rigid pipes and specials true to axis and finishing the ends complete | | |
| | Upto 75mm dia (OD) PVC pipe | Each cutting | 4.23 |
| | 90mm dia PVC pipes | Each cutting | 6.41 |
| | 110mm dia PVC pipes | Each cutting | 6.41 |
| | 125mm dia PVC pipes | Each cutting | 6.41 |
| | 140mm dia PVC pipes | Each cutting | 6.41 |
| | 160mm dia PVC pipes | Each cutting | 10.87 |
| | 180mm dia PVC pipes | Each cutting | 13.04 |
| | 200mm dia PVC pipes | Each cutting | 13.04 |
| | 250mm dia PVC pipes | Each cutting | 15.33 |
| | 315mm dia PVC pipes | Each cutting | 17.39 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|---|--------------|------------------------------|
| 12d. | Cutting and Threading of GI pipes | | |
| a.i | 15mm dia GI pipe, Cutting | Each | 5.43 |
| ii. | 15mm dia GI pipe, Threading | Each | 7.66 |
| b.i | 20mm dia GI pipe, Cutting | Each | 5.43 |
| ii. | 20mm dia GI pipe, Threading | Each | 7.89 |
| c.i | 25mm dia GI pipe, Cutting | Each | 6.58 |
| ii. | 25mm dia GI pipe, Threading | Each | 16.02 |
| d.i | 32mm dia GI pipe, Cutting | Each | 7.89 |
| ii | 32mm dia GI pipe, Threading | Each | 21.62 |
| e.i | 40mm dia GI pipe, Cutting | Each | 10.52 |
| ii | 40mm dia GI pipe, Threading | Each | 24.31 |
| f.i | 50mm dia GI pipe, Cutting | Each | 13.44 |
| ii. | 50mm dia GI pipe, Threading | Each | 27.06 |
| g.i | 65mm dia GI pipe, Cutting | Each | 14.64 |
| ii | 65mm dia GI pipe, Threading | Each | 32.55 |
| h.i | 80mm dia GI pipe, Cutting | Each | 18.99 |
| ii. | 80mm dia GI pipe, Threading | Each | 41.01 |
| i.i | 100mm dia GI pipe, Cutting | Each | 27.06 |
| ii. | 100mm dia GI pipe, Threading | Each | 54.28 |
| j.i. | 125mm dia GI pipe, Cutting | Each | 29.17 |
| j.ii. | 125mm dia GI pipe, Threading | Each | 58.63 |
| 13 | Cutting R.C.C. Pipes true to axis and finishing the ends complete | | |
| | 150mm dia R.C.C. Pipes | Each cutting | 45.76 |
| | 200mm dia R.C.C. Pipes | Each cutting | 51.37 |
| | 250mm dia R.C.C. Pipes | Each cutting | 66.12 |
| | 300mm dia R.C.C. Pipes | Each cutting | 86.14 |
| | 350mm dia R.C.C. Pipes | Each cutting | 89.92 |
| | 400mm dia R.C.C. Pipes | Each cutting | 115.54 |
| | 450mm dia R.C.C. Pipes | Each cutting | 126.64 |
| | 500mm dia R.C.C. Pipes | Each cutting | 141.40 |
| | 600mm dia R.C.C. Pipes | Each cutting | 157.99 |
| | 650mm dia R.C.C. Pipes | Each cutting | 165.42 |
| | 700mm dia R.C.C. Pipes | Each cutting | 181.78 |
| | 750mm dia R.C.C. Pipes | Each cutting | 187.50 |
| | 800mm dia R.C.C. Pipes | Each cutting | 205.81 |
| | 900mm dia R.C.C. Pipes | Each cutting | 218.50 |
| | 1000mm dia R.C.C. Pipes | Each cutting | 235.32 |
| | 1100mm dia R.C.C. Pipes | Each cutting | 251.68 |
| | 1200mm dia R.C.C. Pipes | Each cutting | 270.10 |
| | 1300mm dia R.C.C. Pipes | Each cutting | 281.08 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|---|---|------------------------------|
| 14a | Removing the burst C.I. pipes from the pipe line and removal of slushy soil and baling out water and replacing the pipeline with sound pipe including jointing and cost of refilling the pipeline with water for retesting the pipe line etc complete. (excluding cost of sound pipe and jointing materials and earth work) and as directed by the TWAD Board Officers. | | |
| | For depth upto 2m | | |
| | 80mm dia C.I. Pipes | Each | 851.25 |
| | 100mm dia C.I. Pipes | Each | 1068.04 |
| | 125mm dia C.I. Pipes | Each | 1395.22 |
| | 150mm dia C.I. Pipes | Each | 1759.36 |
| | 200mm dia C.I. Pipes | Each | 2454.34 |
| | 250mm dia C.I. Pipes | Each | 3373.77 |
| | 300mm dia C.I. Pipes | Each | 4292.97 |
| | 350mm dia C.I. Pipes | Each | 4861.20 |
| | 400mm dia C.I. Pipes | Each | 6210.66 |
| | 450mm dia C.I. Pipes | Each | 6765.96 |
| | 500mm dia C.I. Pipes | Each | 7591.47 |
| | 600mm dia C.I. Pipes | Each | 9288.59 |
| | 700mm dia C.I. Pipes | Each | 10139.73 |
| | 750mm dia C.I. Pipes | Each | 11636.42 |
| | 800mm dia C.I. Pipes | Each | 13142.27 |
| | 825mm dia C.I. Pipes | Each | 15585.74 |
| | 900mm dia C.I. Pipes | Each | 19014.88 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 15% | |
| | 4m to 6m | 30% | |
| 14b | Removing the burst A.C. Pipes from the pipe line and removal of slushy soil and baling out water and replacing the pipe line with sound pipe including jointing and cost of refilling the pipe line with water for retesting the pipe line etc complete (excluding cost of sound pipe and jointing materials and earth work) and as directed by the TWAD Board Officers | | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|---|---|------------------------------|
| | For depth upto 2m | | |
| | 80mm dia AC. Pipes | Each | 492.61 |
| | 100mm dia AC. Pipes | Each | 582.64 |
| | 125mm dia AC. Pipes | Each | 733.30 |
| | 150mm dia AC. Pipes | Each | 939.34 |
| | 200mm dia AC. Pipes | Each | 1318.12 |
| | 250mm dia AC. Pipes | Each | 1685.80 |
| | 300mm dia AC. Pipes | Each | 2099.58 |
| | 350mm dia AC. Pipes | Each | 2305.62 |
| | 375mm dia AC. Pipes | Each | 2594.02 |
| | 400mm dia AC. Pipes | Each | 2746.74 |
| | 450mm dia AC. Pipes | Each | 2805.55 |
| | 500mm dia AC. Pipes | Each | 3081.36 |
| | 600mm dia AC. Pipes | Each | 3586.90 |
| | 700mm dia AC. Pipes | Each | 4418.01 |
| | NOTE: For depth between | % excess allowed over basic rate | |
| | 2m to 4m | 15% | |
| | 4m to 6m | 30% | |
| 14c | Removing the burst P.V.C. Pipes from the pipe line and removal of slushy soil and baling out water and replacing the pipe line with sound pipe including jointing and cost of refilling the pipe line with water for retesting the pipe line etc., complete (excluding cost of sound pipe and jointing materials and earth work) and as directed by the TWAD Board Officers | | |
| | Upto 63mm dia (OD) PVC Pipes | Each | 251.68 |
| | 75mm dia (OD) PVC Pipes | Each | 316.09 |
| | 90mm dia (OD) PVC Pipes | Each | 420.88 |
| | 110mm dia (OD) PVC Pipes | Each | 511.02 |
| | 125mm dia (OD) PVC Pipes | Each | 606.66 |
| | 140mm dia to 160mm dia (OD) PVC Pipes | Each | 748.29 |
| | 180mm dia to 200mm dia (OD) PVC Pipes | Each | 1146.52 |
| | 250mm dia to 280mm dia (OD) PVC Pipes | Each | 1397.28 |
| | 315mm dia (OD) PVC Pipes | Each | 1557.10 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 15% | |
| | 4m to 6m | 30% | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|---|------------------------------|
| 14d | Removing the burst R.C.C. pipes from the pipe line and removal of slushy soil and baling out water and replacing the pipe line with sound pipe including jointing and cost of refilling the pipe line with water for retesting the pipe line etc., complete. (excluding cost of sound pipe and jointing materials and earth work) and as directed by the TWAD Board Officers | | |
| | For depth upto 2m | | |
| | 150mm dia RCC Pipes | Each | 1367.88 |
| | 200mm dia RCC Pipes | Each | 1923.06 |
| | 250mm dia RCC Pipes | Each | 2390.16 |
| | 300mm dia RCC Pipes | Each | 2838.61 |
| | 350mm dia RCC Pipes | Each | 3360.84 |
| | 375mm dia RCC Pipes | Each | 3993.36 |
| | 400mm dia RCC Pipes | Each | 4300.30 |
| | 450mm dia RCC Pipes | Each | 4807.77 |
| | 500mm dia RCC Pipes | Each | 5350.26 |
| | 525mm dia RCC Pipes | Each | 6089.40 |
| | 600mm dia RCC Pipes | Each | 6254.82 |
| | 650mm dia RCC Pipes | Each | 6979.32 |
| | 700mm dia RCC Pipes | Each | 7119.00 |
| | 800mm dia RCC Pipes | Each | 7856.31 |
| | 900mm dia RCC Pipes | Each | 8678.16 |
| | 1000mm dia RCC Pipes | Each | 9487.19 |
| | 1100mm dia RCC Pipes | Each | 10336.61 |
| | 1200mm dia RCC Pipes | Each | 11156.63 |
| | 1300mm dia RCC Pipes | Each | 11704.61 |
| | NOTE: For depth between | Percentage excess allowed over basic rate | |
| | 2m to 4m | 15% | |
| | 4m to 6m | 30% | |
| | For sewerline works (Except pumping main) 5% extra over the above rate may be adopted. | | |
| 14e | Charges for fixing MS Stepped split up collar in position in the spigot and socket ends of the PSC pipe carefully and caulking the sides of the collar using hemp yarn cement and hard concrete and pouring the cement | | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|---|------|------------------------------|
| | slurry mixed with use of hard concrete in the stepped collar including cost of materials etc. complete but excluding cost of stepped collar as directed by the TWAD Board Officers | | |
| | Upto 1500mm dia PSC pipes | Each | 8999.85 |
| | Upto 1000mm dia PSC pipes | Each | 7194.27 |
| | Upto 800mm dia PSC pipes | Each | 4195.62 |
| | Upto 700mm dia PSC pipes | Each | 4142.08 |
| | Upto 600mm dia PSC pipes | Each | 4092.66 |
| | Upto 500mm dia PSC pipes | Each | 3965.68 |
| Note: | For lighting arrangements during night works due to emergency actual expenditure incurred based on need for lighting may be given extra as certified by the Executive Engineer incharge of work at site | | |
| 14f | Charges for lowering, positioning and fixing MS steps collars in AC pipe line carefully and caulking the sides of collar using hemp yarn, cement and hard concrete into the stepped collar including cost of jointing materials such as cement, yarn, bolt and nuts, MS washers, RI sheet and hard concrete etc. but excluding cost of step collar and as directed by TWAD Officers | | |
| | For 500mm dia AC pipe | Each | 2998.54 |
| | For 600mm dia AC pipe | Each | 3296.32 |
| | For 700mm dia AC pipe | Each | 3748.77 |
| i) | For removing the burst pipe in the maintenance works when burst occurs and replacing it with sound pipes including the cost of refilling the trench and the removal of slushy soil etc., Complete (Pipes and special jointing materials will be supplied with in 200m lead and at the respective TWAD Board divisional stores free of cost). 2 times ordinary rate allowed for the works are done during day time since the works are done in confined reaches. | | |
| ii) | If the works are done in odd hours (i.e) 8.00 P.M. to 8.00 A.M. of the next day, 3 | | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|--|------------------|------------------------------|
| | times of ordinary rate is allowed since the works are done in the confined reaches. | | |
| | Slow Sand / Rapid Sand Filter Works | | |
| 15 a.i) | Labour for filling with broken stone of all sizes well washed and cleaned, to be free from impurities, including stacking and laying in bed | One cubic metre | 97.24 |
| ii) | Labour for filling the coarse sand passing through a sieve of 10 meshes to 2.5 cm and retained in 20 meshes to 2.5 cm well washed and cleaned to be free from impurities including stacking | One cubic metre | 183.84 |
| iii) | Labour for filling with fine sand passing through a sieve of ten meshes to 2.5cm and retained in a sieve of 40 meshes to 2.5 cm well washed and cleaned to be free from impurities including stacking | One cubic metre | 16.02 |
| 15 b | Labour for scraping and removing silt only from the surface and sides of the filter basin carrying the same to a distance not exceeding 200 metres | One cubic metre | 18.08 |
| 15c | Labour for removing dirty sand in layer of 25 mm uniform thickness from the slow sand filter, conveying, dropping the sand in a hopper with a lift of not exceeding 3 metres within a distance of 30 metres and delivering the washed sand in filter bed including removal and carrying the dirt from collecting chamber to a distance of upto 200 metres. | One square metre | 21.85 |
| | DRAINAGE WORKS | | |
| 16 | Laying and jointing with cement mortar stoneware pipes and specials in dry condition and testing with water | | |
| | 100mm diameter stoneware pipes | One metre | |
| | 150mm diameter stoneware pipes | One metre | |
| | 200mm diameter stoneware pipes | One metre | |
| | 225mm diameter stoneware pipes | One metre | |
| | 250mm diameter stoneware pipes | One metre | |
| | 300mm diameter stoneware pipes | One metre | |
| | 375mm diameter stoneware pipes | One metre | |
| | 450mm diameter stoneware pipes | One metre | |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|-------------------|---|-------|------------------------------|
| | NOTE : The rates to be worked out vide standard data appended as Item 17 | | |
| 17 | Joining HDPE Pipes and Specials by butt fusion welding/ electro fusion welding joints using fusion equipment as per ISO 21307-2011 and as per IS 7634 (Part-2) : 2012 including cost of hire charges for butt fusion equipment power supply arrangements etc., complete as per directed by TWAD Board officers. | | |
| 1 | 50mm | Joint | 58.30 |
| 2 | 63mm | Joint | 72.60 |
| 3 | 75mm | Joint | 86.90 |
| 4 | 90mm | Joint | 105.60 |
| 5 | 110mm | Joint | 127.60 |
| 6 | 125mm | Joint | 145.20 |
| 7 | 140mm | Joint | 162.80 |
| 8 | 160mm | Joint | 184.80 |
| 9 | 180mm | Joint | 213.40 |
| 10 | 200mm | Joint | 236.50 |
| 11 | 225mm | Joint | 267.30 |
| 12 | 250mm | Joint | 297.00 |
| 13 | 280mm | Joint | 331.10 |
| 14 | 315mm | Joint | 372.90 |
| 15 | 355mm | Joint | 420.20 |
| 16 | 400mm | Joint | 474.10 |
| 17 | 450mm | Joint | 532.40 |
| 18 | 500mm | Joint | 591.80 |
| 19 | 560mm | Joint | 684.20 |
| 20 | 630mm | Joint | 782.10 |
| 18 | Joining of mechanical joint collar, nuts, gasket and fixing in position as directed by departmental officers. | | |
| 1 | 100mm | Joint | 73.70 |
| 2 | 150mm | Joint | 179.30 |
| 3 | 200mm | Joint | 184.80 |
| 4 | 250mm | Joint | 272.80 |
| 5 | 400mm | Joint | 574.20 |
| 6 | 450mm | Joint | 633.60 |
| 7 | 600mm | Joint | 1161.60 |

| Schedule Item No. | Description | Unit | Rate for 2018 - 19 in Rupees |
|--------------------------|--|-------------------|-------------------------------------|
| 19 | Disjointing of GI pipes as directed by the departmental officers | | |
| 1 | Upto 80mm | Each | 48.40 |
| 2 | Above 80mm | Each | 63.80 |
| 20 | Welding of GI pipes as directed by the departmental officers for the sizes | | |
| 1 | Upto 80 mm | One Welding Joint | 156.20 |
| 2 | Above 80mm | One Welding Joint | 179.30 |
| Note: | The Basic Rate adopted under this Head " Rates of Works" is exclusive of all taxes and GST | | |

**DATA ILLUSTRATION (RATES FOR ITEM No. 16) ITEM No. 17. LAYING AND JOINTING STONE WARE PIPES FOR ONE RUNNING METRE
(Only for illustration purpose assuming Conveyance charges for 20KM for Cement & Sand and 8KM for Stoneware pipes)**

| Diameter (in mm) | Length of each pipe in cm | Weight of S.W pipes for 30m (As per Hand Book of PHE) | Quantity of cement in Kg for 50 joints | Cost of cement required for 50 joints (Rs.) 5530-20+111.70=5621.70) | Quantity of sand in cubic metres for 50 mortar joints | Cost of sand required for 50 mortar joints at Rs. Per cum (168+178.50=346.50) | Quantity of spun of tarred yarn in kg | Cost of yarn at Rs. 12.19 Kg | Total cost of materials (Total of columns 5,7,& 9) | Labour for Laying and jointing | | | | | | | | Cost of Labour for a length of 30m of SW pipes (Total No. of column 11,12,13 & 14) (Rs. P.) | Total cost of material and cost of Labour for 30 mts. (Total No. of Column 10 & 15) (Rs. P.) | Conveyance of pipes from stock yard to site of work | Testing charges including conveyance of water tools and plants etc. (Rs.) | Total cost of laying and jointing SW pipes with CM and packing with spun or tarred yarn etc. complete for 30m length (Rs.P) | Total cost of laying 4 joints for stoneware pipes complete for 1 metre (Rs. P) |
|------------------|---------------------------|---|--|--|---|---|---------------------------------------|------------------------------|--|--------------------------------|---|-----------------|------|----------------------|------|------------------------|------|---|--|---|---|---|--|
| | | | | | | | | | | Mason I Class | | Filter II Class | | Mazdoor I Category I | | Mazdoor II Category II | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Nos. | | Amount | | Nos. | | Amount | | 15 | 16 | 17 | 18 | 19 | 20 |
| 100 | 60 | 435 | 45 | 252.98 | 0.04 | 13.86 | 3.63 | 44.29 | 311.13 | 2 | 1 | 1 | 467 | 5 | 1775 | 2 | 640 | 4016 | 4327.13 | 244.75 | 261.90 | 4833.78 | 161.13 |
| 150 | 60 | 750 | 68 | 382.28 | 0.07 | 24.26 | 5.45 | 66.49 | 473.03 | 3 | 2 | 2 | 934 | 6 | 2130 | 3 | 960 | 5725 | 6198.03 | 421.99 | 354.78 | 6974.80 | 232.49 |
| 200 | 60 | 1043 | 98 | 550.93 | 0.08 | 27.72 | 6.90 | 84.18 | 662.83 | 4 | 2 | 2 | 934 | 6 | 2130 | 3 | 960 | 6292 | 6954.83 | 586.84 | 357.83 | 7899.50 | 263.32 |
| 225 | 60 | 1185 | 104 | 584.66 | 0.10 | 34.65 | 8.17 | 99.67 | 718.98 | 5 | 3 | 3 | 1401 | 7 | 2485 | 5 | 1600 | 8321 | 9039.98 | 797.11 | 414.16 | 10251.25 | 341.71 |
| 250 | 60 | 1375 | 115 | 646.5 | 0.11 | 38.12 | 8.35 | 101.87 | 786.49 | 5 | 3 | 3 | 1401 | 7 | 2485 | 5 | 1600 | 8321 | 9107.49 | 924.92 | 427.87 | 10460.28 | 348.68 |
| 300 | 60 | 2180 | 150 | 843.26 | 0.15 | 51.98 | 11.34 | 138.35 | 1033.59 | 6 | 3 | 3 | 1401 | 12 | 4260 | 6 | 1920 | 10983 | 12016.59 | 1466.42 | 545.11 | 14028.12 | 467.6 |
| 375 | 60 | 2425 | 318 | 1787.7 | 0.28 | 97.02 | 18.14 | 221.31 | 2106.03 | 7 | 3 | 3 | 1401 | 14 | 4970 | 7 | 2240 | 12580 | 14686.03 | 1888.35 | 612.11 | 17186.49 | 572.88 |
| 450 | 60 | - | 454 | 2552.25 | 0.34 | 117.81 | 27.22 | 332.08 | 3002.14 | 8 | 3 | 3 | 1401 | 16 | 5680 | 8 | 2560 | 14177 | 17179.14 | - | - | - | - |

- Note :
- For other diameter of pipes now manufactured, the rates will be fixed in due course after observing data.
 - The rates arrived at adopting the data appended to this schedule of Rates is for works done in the first 2.00m depth extra percentage 5% for 2m to 2.5m, 7.50% for 2.50m to 3m, 10% for 3m to 3.50m 15% for 3.50m to 4m and 20% for above 4m depth over basic rates are allowed.
 - The above data does not include bailing charges, bailing charges to be added as extra as per rates given in the relevant PWD Schedule of Rates or as per actuals.
 - The conveyance charges adopted for Cement, Sand & Pipes are only for illustration purpose. The average lead for respective districts, as approved by the Chief Engineer shall be adopted for Cement & Sand. The lead for Pipe shall be adopted, as certified by the respective Assistant Executive Engineer.
 - The Basic Rate adopted under this Head " Rates of Works" is exclusive of all taxes and GST

**IV (B) RATES FOR EARTH WORK
EXCAVATION OTHER THAN PIPE
LAYING WORKS AND OPEN WELLS**

EARTH EXCAVATION OTHER THAN PIPE LAYING WORKS AND OPEN WELLS

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------------------------|---|-------------|------------------------------------|
| | Earthwork excavating and depositing on bank with an initial lead of 10 metres and initial lift of 2 metres in | | |
| 1 | Sand, silt or other loose soil, wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil including excavated earth SS 20 A | Cu.m | 46.60 |
| 2 | Sand, silt or other loose soil, wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil including excavated earth SS 20 B | Cu.m | 42.50 |
| 3 | Slush and silt under water upto 0.75 metre depth requiring the aid of baskets and vessels SS 20 B | Cu.m | 53.20 |
| 4 | Trimming the bed and side slope of the bank in all soils except hard rock upto a thickness of 7.5 cm and making it ready to receive the concrete. | Sq.m | 10.90 |
| 4a | 7.50 cm to 15cm thick | Sq.m | 13.20 |
| 5 | Sectioning during forming bunds when earth moving machinery, lorries and rollers are used for consolidation. | Cu.m | 8.00 |
| 6 | Hard stiff clay, stiff black cotton, hard red earth, shales, murrum, gravel, stoney earth and earth mixed with small size boulders SS 20A | Cu.m | 67.80 |
| 7 | Hard stiff clay, stiff black cotton, hard red earth, shales, murrum, gravel, stoney earth and earth mixed with small size boulders SS 20B | Cu.m | 63.60 |
| 8 | Soft disintegrated rock, laterite, soft rock or kankar, not requiring blasting | Cu.m | 94.70 |
| 9 | In loose boulders in excavation of various sizes 150mm to 625mm | Cu.m | 150.30 |
| 10 | Medium Rock and Dense Medium Rock not requiring blasting | Cu.m | 166.30 |
| 11 | Extra for every additional 10 metres lead or part thereof over the initial lead | Cu.m | 7.80 |
| 12 | Extra for every additional 1 metre lift or part thereof over the initial lift | Cu.m | 6.20 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|------|-----------------------------|
| 13 | Breaking clods, consolidating and sectioning | Cu.m | 3.90 |
| 14 | Breaking clods, consolidating and sectioning the earth scooped by bull dozers | Cu.m | 11.80 |
| 15 | Add relevant TNDSS No.20A, rates for new tank bunds and closing breaches for extra watering and consolidation. | | |
| a) | By hand roller | Cu.m | 13.20 |
| b) | By power roller including hire charges | Cu.m | 22.20 |
| 16 | Benching old embankment slopes 45cm x 45cm | Sq.m | 2.50 |
| 17 | Puddle wall work | Cu.m | 105.00 |
| 18 | Turfing in slopes including watering and fixing with initial lead upto 50m. | Sq.m | 22.20 |
| 19a | Refilling with excavated sand complying with standard specification for filling in foundation and basement | Cu.m | 19.50 |
| 19.b | Refilling with excavated soil (other than sand) complying with the standard specification for filling in foundation and basement | Cu.m | 22.20 |
| 20 | QUARRYING AND BLASTING | | |
| a) | Hard rock measured in solid including blasting and stacking | Cu.m | 450.00 |
| b) | Removing hard rock by wedging chiselling and trimming to proper shape where blasting is prohibited. | Cu.m | 903.00 |
| c) | Medium rock and dense medium rock requiring blasting | Cu.m | 230.00 |
| d) | Extra for every additional 10 metres lead or part thereof over the initial lead for blasted materials | Cu.m | 5.40 |
| e) | Extra for every additional 1 metre lift or part thereof over the initial lift of 2 m for blasted materials | Cu.m | 5.60 |
| f) | Benching hard rock upto an average 10cm depth | Sq.m | 435.00 |
| g) | Drilling holes in hard granite 32mm diameter | RM | 122.00 |
| h) | Drilling holes in hard granite 40mm diameter | RM | 144.70 |
| i) | Drilling holes in hard granite 45mm diameter | RM | 169.00 |
| j) | Drilling holes in hard granite 50mm diameter | RM | 203.00 |
| k) | Drilling holes in hard granite 75mm diameter | RM | 231.00 |

The following foot note is applicable for the classifications of soils come under " Quarrying and blasting" and "Earth Work"

- Note:
- a) Standard specification No.20-A requires breaking clods, ramming and sectioning of spoil bank for which separate rate will not be paid.
 - b) Standard specification No.20-B does not require breaking clods, ramming and sectioning but requires neat banking in accordance with the standard specifications.
 - c) Double the relevant rate for standard specification No.20-B will apply to excavation in all the soils and rock classification given above for foundation of buildings, piers, wings and returns of bridges, culverts, sluices, regulators and cross masonry works, retaining walls, toe walls, cut-off walls and body walls of anicuts weirs, retaining walls of cause ways, road dam, pits for avenue trees, and pits for poles and towards catch water pits and pipe laying trenches for water supply and sewerage works.
 - d) An extra 50 percent over the rates for ordinary excavation in all the soils and rock classification given above shall be allowed for the above said works only having bed width 1.25 m and below. The extra percentage is applicable any for depth up to 2.00m the depth being measured from the bottom of excavation.
 - e) An extra 25 percent over the rates for ordinary excavation in all the soils and rock classification given shall be allowed for the above said works having bed width 1.25m to 2.00m. The extra percentage is applicable only for depth up to 2.0m the depth being measured from the bottom of excavation.
 - f) These rates for earth work do not include baling charge. The baling charges are to be paid as per actual in case baling is done departmentally or at actual plus 10 percent extra in case baling is done by other agencies. However for estimate purpose baling charges are to be provided at 10 percent of the rates of respective items of excavation in all soils including medium rock and dense medium rock and at 5 percent of the rates for excavation in hard rock.
 - g) Double the relevant rate for standard specification No.20B for excavation in all soils and rock classification given above shall be allowed for circular trenches for soil and moisture conservation having bed width of 0.25m and below with side slope of 1/2: 1 and not less than 0.75 m in depth.
 - h i) A deduction of 40 percent is to be made for the quantity of voids and stack measurement and payment is for the lesser of two viz. Solid measurement or stack measurements less 40 percent of stack measurement for voids.
 - h ii) The rates for extra lead and lift are on the quantity as per the solid measurement or stack measurement less 40 percent for voids whichever is less. These rates are applicable for head load only.
 - h iii) Payment for blasting the rock in solid shall be made for the lesser of the two quantities obtained by a) Measurement recorded by levels or measurement and b) by stack measurement less deduction for voids (This foot note is applicable for all items of rock measured in solid)

**IV (C) RATES FOR EARTH WORK
EXCAVATION FOR PIPE LAYING WORKS
FOR WATER SUPPLY AND
SEWERAGE WORKS**

EARTH WORK EXCAVATION FOR PIPE LAYING WORKS FOR WATER SUPPLY AND SEWERAGE WORKS

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------------------------|--|-----------------|------------------------------------|
| I | Earth work excavation and depositing on bank with initial lead of 10 m and lift of 2 M in narrow trenches having bed width 1.25m & below for laying of pipes for water supply and sewerage works in the following type of soil strata as directed by Departmental officers | | |
| a | Sand, silt or other loose soil, wet sand or silt not under water light black cotton soil, sandy loam and ordinary soil.SS20B | One cubic metre | 106.25 |
| b | Hard stiff clay, stiff black cotton, hard red earth, shales, murrum gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil.SS20B | One cubic metre | 159.00 |
| II | Earth work excavation and depositing on bank with initial lead of 10m and lift of 2.00m in narrow trenches for laying of pipes for water supply and sewerage works in the following types of soil strata as directed by departmental officers | | |
| a | In Soft Disintegrated Rock, Laterite, soft rock or kankar, not requiring blasting. | Cum | 189.40 |
| b | In Medium rock and dense medium rock not requiring blasting. | Cum | 332.60 |
| c | In Medium rock and Dense medium rock requiring blasting. | Cum | 460.00 |
| d | In hard rock including blasting, removal and stacking. | Cum | 900.00 |
| III a) | Earth work excavation for Pipe Laying work by removing dense medium rock using controlled blasting method by drilling blast holes using compressor and jack hammer including dewatering wherever necessary, cost of gelatin, electric detonator, licensed shot fireman, labour for filling earth in gunny bags, labour for excavation of earth, conveyance of earth including cost of gunny bags, M.S Plates, barricading, putting up road diversion boards and providing red light signal during night, removal of debris etc., where open blasting is prohibited and as directed by TWAD Board Officers. | Cum | 450.00 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|------|-----------------------------|
| b | Earth work excavation for Pipe Laying work by removing hard rock using controlled blasting method by drilling blast holes using compressor and jack hammer including stacking, dewatering wherever necessary, cost of gelatin, electric detonator, licensed shot fireman, labour for filling earth in gunny bags, labour for excavation of earth, conveyance of earth including cost of gunny bags, M.S Plates, barricading, putting up road diversion boards and providing red light signal during night, removal of debris etc., where open blasting is prohibited and as directed by TWAD Board Officers. | Cum | 977.50 |

**IV (D) RATES FOR EARTH WORK
EXCAVATION AND REFILLING FOR
PIPELINE WORKS HAVING BED
WIDTH OF 1.25M AND BELOW ON
LINER MEASUREMENT BASIS**

**THE RATES FOR EARTH WORK EXCAVATION AND REFILLING FOR PIPE LINE WORKS
HAVING BED WIDTH OF 1.25M AND BELOW ON LINEAR MEASUREMENT BASIS**

| Type | Pipe size in mm | Bed Width in 'm' | Depth in 'm' | Earth work qty. in cum/m | Outer dia of pipe in 'm' | Refilling Qty/ cum/m | Earth work rate for other than loose soil/m Rs. | Earth work rate for loose soil/m Rs. | Refilling rate/m Rs. |
|----------|-----------------|------------------|--------------|--------------------------|--------------------------|----------------------|---|--------------------------------------|----------------------|
| | | | | | Cost of EWE | | 159.00 | | |
| | | | | | Cost of refilling | | 22.20 | | |
| | | | | | Cost of loose soil | | 106.25 | | |
| CI/DI/ | 80 | 0.75 | 1.05 | 0.79 | 0.098 | 0.780 | 125.61 | 83.94 | 17.32 |
| MS | 100 | 0.75 | 1.05 | 0.79 | 0.118 | 0.777 | 125.61 | 83.94 | 17.25 |
| | 125 | 0.75 | 1.05 | 0.79 | 0.144 | 0.771 | 125.61 | 83.94 | 17.12 |
| | 150 | 0.75 | 1.05 | 0.79 | 0.170 | 0.765 | 125.61 | 83.94 | 16.98 |
| | 200 | 0.80 | 1.10 | 0.88 | 0.222 | 0.841 | 139.92 | 93.50 | 18.67 |
| | 250 | 0.80 | 1.20 | 0.96 | 0.274 | 0.901 | 152.64 | 102.00 | 20.00 |
| | 300 | 0.80 | 1.35 | 1.08 | 0.326 | 0.997 | 171.72 | 114.75 | 22.13 |
| | 350 | 0.90 | 1.45 | 1.31 | 0.378 | 1.193 | 208.29 | 139.19 | 26.48 |
| | 400 | 0.90 | 1.55 | 1.40 | 0.429 | 1.251 | 222.6 | 148.75 | 27.77 |
| | 450 | 1.00 | 1.70 | 1.70 | 0.480 | 1.519 | 270.3 | 180.63 | 33.72 |
| | 500 | 1.00 | 1.85 | 1.85 | 0.532 | 1.628 | 294.15 | 196.56 | 36.14 |
| | 525 | 1.00 | 1.85 | 1.85 | 0.532 | 1.628 | 294.15 | 196.56 | 36.14 |
| AC CI 15 | 80 | 0.75 | 1.05 | 0.79 | 0.104 | 0.779 | 125.61 | 83.94 | 17.29 |
| | 100 | 0.75 | 1.05 | 0.79 | 0.124 | 0.775 | 125.61 | 83.94 | 17.21 |
| | 125 | 0.75 | 1.05 | 0.79 | 0.151 | 0.770 | 125.61 | 83.94 | 17.09 |
| | 150 | 0.75 | 1.05 | 0.79 | 0.178 | 0.763 | 125.61 | 83.94 | 16.94 |
| | 200 | 0.80 | 1.10 | 0.88 | 0.235 | 0.837 | 139.92 | 93.50 | 18.58 |
| | 250 | 0.80 | 1.20 | 0.96 | 0.286 | 0.896 | 152.64 | 102.00 | 19.89 |
| | 300 | 0.80 | 1.35 | 1.08 | 0.340 | 0.989 | 171.72 | 114.75 | 21.96 |
| | 350 | 0.90 | 1.45 | 1.31 | 0.396 | 1.162 | 208.29 | 139.19 | 25.80 |
| | 400 | 0.90 | 1.55 | 1.40 | 0.452 | 1.235 | 222.6 | 148.75 | 27.42 |
| | 450 | 1.00 | 1.70 | 1.70 | 0.502 | 1.502 | 270.3 | 180.63 | 33.34 |
| | 500 | 1.00 | 1.85 | 1.85 | 0.559 | 1.605 | 294.15 | 196.56 | 35.63 |
| AC CI 10 | 80 | 0.75 | 1.05 | 0.79 | 0.104 | 0.779 | 125.61 | 83.94 | 17.29 |
| | 100 | 0.75 | 1.05 | 0.79 | 0.124 | 0.775 | 125.61 | 83.94 | 17.21 |
| | 125 | 0.75 | 1.05 | 0.79 | 0.149 | 0.770 | 125.61 | 83.94 | 17.09 |

| Type | Pipe size in mm | Bed Width in 'm' | Depth in 'm' | Earth work qty. in cum/m | Outer dia of pipe in 'm' | Refilling Qty/ cum/m | Earth work rate for other than loose soil/m Rs. | Earth work rate for loose soil/m Rs. | Refilling rate/m Rs. |
|----------------------|-----------------|------------------|--------------|--------------------------|--------------------------|----------------------|---|--------------------------------------|----------------------|
| | 150 | 0.75 | 1.05 | 0.79 | 0.175 | 0.763 | 125.61 | 83.94 | 16.94 |
| | 200 | 0.80 | 1.10 | 0.88 | 0.229 | 0.839 | 139.92 | 93.50 | 18.63 |
| | 250 | 0.80 | 1.20 | 0.96 | 0.281 | 0.898 | 152.64 | 102.00 | 19.94 |
| | 300 | 0.80 | 1.35 | 1.08 | 0.333 | 0.993 | 171.72 | 114.75 | 22.04 |
| | 350 | 0.90 | 1.45 | 1.31 | 0.389 | 1.186 | 208.29 | 139.19 | 26.33 |
| | 400 | 0.90 | 1.55 | 1.40 | 0.436 | 1.246 | 222.6 | 148.75 | 27.66 |
| | 450 | 1.00 | 1.70 | 1.70 | 0.486 | 1.515 | 270.3 | 180.63 | 33.63 |
| | 500 | 1.00 | 1.85 | 1.85 | 0.541 | 1.620 | 294.15 | 196.56 | 35.96 |
| PVC/ HDPE/ GRP | 40 | 0.60 | 1.05 | 0.63 | 0.040 | 0.629 | 100.17 | 66.94 | 13.96 |
| | 50 | 0.60 | 1.05 | 0.63 | 0.050 | 0.628 | 100.17 | 66.94 | 13.94 |
| | 63 | 0.60 | 1.05 | 0.63 | 0.063 | 0.627 | 100.17 | 66.94 | 13.92 |
| | 75 | 0.60 | 1.05 | 0.63 | 0.075 | 0.626 | 100.17 | 66.94 | 13.90 |
| | 90 | 0.60 | 1.05 | 0.63 | 0.090 | 0.624 | 100.17 | 66.94 | 13.85 |
| | 110 | 0.60 | 1.05 | 0.63 | 0.110 | 0.621 | 100.17 | 66.94 | 13.79 |
| | 125 | 0.60 | 1.05 | 0.63 | 0.125 | 0.618 | 100.17 | 66.94 | 13.72 |
| | 140 | 0.60 | 1.05 | 0.63 | 0.140 | 0.615 | 100.17 | 66.94 | 13.65 |
| | 160 | 0.60 | 1.05 | 0.63 | 0.160 | 0.610 | 100.17 | 66.94 | 13.54 |
| | 180 | 0.75 | 1.05 | 0.79 | 0.180 | 0.760 | 125.61 | 83.94 | 16.87 |
| | 200 | 0.80 | 1.10 | 0.88 | 0.200 | 0.850 | 139.92 | 93.50 | 18.87 |
| PSC/ BWSC | 350 | 0.90 | 1.45 | 1.31 | 0.464 | 1.136 | 208.29 | 139.19 | 25.22 |
| | 400 | 0.90 | 1.55 | 1.40 | 0.514 | 1.188 | 222.6 | 148.75 | 26.37 |
| | 450 | 1.00 | 1.70 | 1.70 | 0.564 | 1.450 | 270.3 | 180.63 | 32.19 |
| | 500 | 1.00 | 1.85 | 1.85 | 0.614 | 1.554 | 294.15 | 196.56 | 34.50 |
| GI | 15 | 0.75 | 1.05 | 0.79 | 0.020 | 0.787 | 125.61 | 83.94 | 17.47 |
| | 20 | 0.75 | 1.05 | 0.79 | 0.030 | 0.787 | 125.61 | 83.94 | 17.47 |
| | 25 | 0.75 | 1.05 | 0.79 | 0.030 | 0.787 | 125.61 | 83.94 | 17.47 |
| | 32 | 0.75 | 1.05 | 0.79 | 0.040 | 0.786 | 125.61 | 83.94 | 17.45 |

| Type | Pipe size in mm | Bed Width in 'm' | Depth in 'm' | Earth work qty. in cum/m | Outer dia of pipe in 'm' | Refilling Qty/ cum/m | Earth work rate for other than loose soil/m Rs. | Earth work rate for loose soil/m Rs. | Refilling rate/m Rs. |
|------|-----------------|------------------|--------------|--------------------------|--------------------------|----------------------|---|--------------------------------------|----------------------|
| | 40 | 0.75 | 1.05 | 0.79 | 0.050 | 0.786 | 125.61 | 83.94 | 17.45 |
| | 50 | 0.75 | 1.05 | 0.79 | 0.060 | 0.786 | 125.61 | 83.94 | 17.45 |
| | 65 | 0.75 | 1.05 | 0.79 | 0.070 | 0.784 | 125.61 | 83.94 | 17.40 |
| | 80 | 0.75 | 1.05 | 0.79 | 0.090 | 0.781 | 125.61 | 83.94 | 17.34 |
| | 100 | 0.75 | 1.05 | 0.79 | 0.110 | 0.778 | 125.61 | 83.94 | 17.27 |
| | 125 | 0.75 | 1.05 | 0.79 | 0.140 | 0.772 | 125.61 | 83.94 | 17.14 |
| | 150 | 0.75 | 1.05 | 0.79 | 0.160 | 0.767 | 125.61 | 83.94 | 17.03 |

- Note: (1) Earth work excavation for loose soil SS-20B and ordinary soil SS-20B having the bed width of
- 1.25m and below and for a depth of beyond 2.00m and
 - 1.25m and above and for a depth of beyond 2.00m may be worked out separately with extra cost for additional lift and adopt accordingly.
- (2) Earth excavation in SDR, DMR,HR etc., the linear measurement rate may be worked out separately and to be approved by the SE concerned after verification of soil classifications by putting proper trial pits at closer intervals". (B.P.Ms.No.82 / COM Wing / dt.22.8.2008).

**IV (E) RATES FOR MISCELLANEOUS
WORKS**

MISCELLANEOUS

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------------------------|---|-------------|------------------------------------|
| | PLUMBING | | |
| 1. A | Laying of G.I. Pipes and specials to proper line and level including jointing but excluding cost of pipes and jointing materials for plumbing works for providing water supply and sanitary works in the premises of the building | | |
| | 6 mm to 32 mm dia | One metre | 13.16 |
| | 40 mm to 50 mm dia | One metre | 13.16 |
| | 65 mm to 150 mm dia | One metre | 17.62 |
| b | Bore cap using M.S. Flat of size 1 cm x 3 mm and M.S. sheet on top with bolting arrangements for securing the cap in position (Bore caps with M.S. Couplings need not be made) | | |
| | 5" Casing Pipes | Each | 367.68 |
| | 6" Casing Pipes | Each | 389.65 |
| | 8" Casing Pipes | Each | 428.31 |
| 2 | Labour for cutting open road for laying water mains or sewer. | | |
| a. | B.T. Roads (or) Maccadam road | One cu.m | 539.85 |
| b. | Concrete Roads | One cu.m | 756.07 |
| 3 | Labour for drilling, cutting, Threading and Fixing Ferrules in distribution pipes. | | |
| | 10 mm dia | Each | 56.40 |
| | 15 mm dia | Each | 70.70 |
| | 20mm dia | Each | 88.77 |
| | 25 mm dia | Each | 105.02 |
| 4 | Labour charges for Painting TWAD Board Emblem in accordance with the size and specifications as approved by the Board on the Service Reservoirs including cost of all consumables, one coat of base paint, scaffolding charges including painting NRDWP Logo on the Service Reservoirs. | Sqm | 1982.78 |
| 5 | Drilling holes in C.I/G.I. Dummy Flanges. | | |
| | 12 mm dia | Each | 19.79 |
| | 15 mm dia | Each | 39.81 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|---|-----------------------------|
| | 20 mm dia | Each | 57.66 |
| | 22 mm dia | Each | 77.68 |
| | 25 mm dia | Each | 97.58 |
| 6 | Labour for refilling with sand the socket hollows of pipes including conveyance and stacking | One cu.m | 19.79 |
| | NOTE : 1) For depth between | Percentage excess allowed over basic rate | |
| | 2 m to 4 m | 15% | |
| | 4 m to 6 m | 30% | |
| 7 | Lifting and positioning of C.I / G.I Pipes in vertical direction for service reservoir pipe connection | | |
| | 0 to 2 m | Qtl | 167.71 |
| | 2 to 4 m | Qtl | 252.60 |
| | 4 to 6 m | Qtl | 396.17 |
| | 6 m to 8 m | Qtl | 547.98 |
| | 8 m to 10 m | Qtl | 699.67 |
| | 10 m to 12 m | Qtl | 849.42 |
| | 12 m to 14 m | Qtl | 1005.00 |
| | 14 m to 16 m | Qtl | 1144.80 |
| | 16 m to 18 m | Qtl | 1296.27 |
| | 18 m to 20 m | Qtl | 1447.85 |
| | 20 m to 22 m | Qtl | 1595.77 |
| | 22 m to 24 m | Qtl | 1745.17 |
| 8. | DRILLING WORKS Using Hand Bore set | | |
| a | Drilling of borewells of size 4" to 5" dia. in Sedimentary formation using hand boresets including insertion of casing pipes and removal of casing pipes etc., including supplying and packing of pebbles and conveyance of hand Boreset including loading and unloading | One metre | 632.75 |
| b | Drilling of borewells of size 6" to 8" dia. in sedimentary formation using hand boreset including insertion of casing pipe etc., and supplying and packing of pebbles (Conveyance of hand bore set including loading and unloading to be done by the contractor) | One metre | 744.17 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|-----------|-----------------------------|
| c | Using Hand Bore set (For Investigation purpose) | | |
| i | Drilling of borewells of size 4" to 5" dia. in sedimentary formation using hand boresets including insertion of casing pipes and removal of casing pipes etc., including collection of samples as directed by the TWAD Board Officers. | One metre | 471.10 |
| ii | Drilling of borewells of size 6" to 8" dia. in sedimentary formation using hand boresets including insertion of casing pipes and removal of casing pipes etc., including collection of samples as directed by the TWAD Board Officers. | One metre | 551.98 |
| | Using Calyx Drill | | |
| d | Drilling of 4 1/2" diameter borewell by using Calyx Drill including transporting charges and insertion of casing pipes (excluding cost of casing pipe) | | |
| i. | For Hilly terrain area | One metre | 2368.31 |
| ii. | For Plain area | One metre | 1956.81 |
| e | Drilling 4 1/2" dia meter bores by using In-Well rig in Hilly areas | One metre | 996.65 |
| f | Reaming from 6" Pilot bore to 12" size bore as directed by the TWAD Board Officers | One metre | 260.15 |
| g | Labour charges for inserting casing pipes assembly (With slot or without slot) in the drilled hole including welding the joint etc., complete and supplying and packing the annular space with pebbles of size and quality as approved by the Executive Engineer | One metre | 249.16 |
| 9 a | Driving sheet piles for one metre length of gallery each side in sandy soil | | |
| i. | First depth of 2 m | One metre | 491.35 |
| ii | Second depth of 2 m | One metre | 750.24 |
| iii | Third depth of 2 m | One metre | 1409.06 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|---|-----------------------------|
| b | Removing sheet piles from one metre length of gallery on each side including stacking the sheet piles properly | | |
| i. | First depth of 2 m | One metre | 76.42 |
| ii | Second depth of 2m | One metre | 117.03 |
| iii | Third depth of 2 m | One metre | 169.88 |
| 10 | Drilling of borwell inside well 115mm dia. | | |
| | a) Vertical | One metre | 543.97 |
| | b) Horizontal | One metre | 596.60 |
| 11 | Drilling of borewell inside well 150mm dia. | | |
| | a) Vertical | One metre | 681.02 |
| | b)Horizontal | One metre | 719.80 |
| 12 | Drilling of Borewells anywhere in Tamilnadu including transportation from one place to another within Tamilnadu in alluvial soil sedimentary strata of clay and sand stone shale pebbles boulders etc. By first taking a pilot bore of 140 mm/150mm dia and then enlarging to required dia direct or reverse rotary mud circulation method using rotary rigs, fuel, labour and drilling bentonite and water required for drilling at site (Site will be shown by the TWAD Board Officers) including construction of mud pit. | | |
| | | P.S. to M.D.S.S. Special Specifications | |
| a. | Drilling of 140/150 mm pilot bore | | |
| i. | Upto 60 m Depth ending below ground level | One metre | 1137.59 |
| ii | From 60 m upto 90 m Depth ending from ground level | One metre | 1231.97 |
| iii | From 90 m upto 120 m Depth ending from ground level | One metre | 1306.22 |
| iv | From 120 m upto 150 m Depth ending from ground level | One metre | 1375.43 |
| v | From 150 m upto 180 m Depth ending from ground level | One metre | 1396.82 |
| vi | From 180 m upto 210 m Depth ending from ground level | One metre | 1442.13 |
| vii | From 210 m upto 240 m Depth ending from ground level | One metre | 1483.65 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------------------------|--|-------------|------------------------------------|
| viii | From 240 m upto 270 m Depth ending from ground level | One metre | 1535.25 |
| ix | From 270 m upto 300 m Depth ending from ground level | One metre | 1569.22 |
| x | From 300 m upto 330 m Depth ending from ground level | One metre | 1606.98 |
| xi | From 330 m upto 360 m Depth ending from ground level | One metre | 1640.95 |
| 12 b | Reaming 140/150 mm dia pilot bore to 300mm dia bore as directed by the TWAD Board Officer. | | |
| i. | Upto 60 m depth ending below ground level | One metre | 285.66 |
| ii | From 60 m depth and upto 90 mt depth ending below ground level | One metre | 303.27 |
| iii | From 90 m upto 120 mt depth ending below ground level | One metre | 323.41 |
| iv | From 120 m upto 150 mt depth ending below ground level | One metre | 328.44 |
| v | From 150 m upto 180 mt depth ending below ground level | One metre | 343.54 |
| vi | From 180 m upto 210 mt depth ending below ground level | One metre | 361.16 |
| vii | From 210 m upto 240 mt depth ending below ground level | One metre | 377.52 |
| viii | From 240 m upto 270 mt depth ending below ground level | One metre | 391.36 |
| ix | From 270 m upto 300 mt depth ending below ground level | One metre | 412.76 |
| x | From 300 m upto 330 mt depth ending below ground level | One metre | 429.11 |
| xi | From 330 m upto 360 mt depth ending below ground level | One metre | 444.22 |
| 12 c | Reaming 200 mm dia pilot bore to 350mm dia bore as directed by the TWAD Board Officer. | | |
| i. | Upto 60 m depth ending below ground level | One metre | 320.89 |
| ii | From 60 m depth and upto 90 mt depth ending below ground level | One metre | 339.77 |
| iii | From 90 m upto 120 m depth ending below ground level | One metre | 361.16 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|--------------------------|--|-------------|------------------------------------|
| iv | From 120 m upto 150 m depth ending below ground level | One metre | 372.49 |
| v | From 150 m upto 180 m depth ending below ground level | One metre | 385.07 |
| vi | From 180 m upto 210 m depth ending below ground level | One metre | 414.01 |
| vii | From 210 m upto 240 m depth ending below ground level | One metre | 473.16 |
| viii | From 240 m upto 270 m depth ending below ground level | One metre | 485.74 |
| ix | From 270 m upto 300 m depth ending below ground level | One metre | 497.07 |
| x | From 300 m upto 330 m depth ending below ground level | One metre | 513.43 |
| xi | From 330 m upto 360 m depth ending below ground level | One metre | 526.01 |
| 12 d | Reaming 300 mm dia pilot bore to 400mm/450mm dia bore as directed by the TWAD Board Officer. | | |
| i. | Upto 60 m depth ending below ground level | One metre | 440.44 |
| ii | From 60 m depth and upto 90 m depth ending below ground level | One metre | 493.29 |
| iii | From 90 m upto 120 m depth ending below ground level | One metre | 526.01 |
| iv | From 120 m upto 150 m depth ending below ground level | One metre | 557.47 |
| v | From 150 m upto 180 m depth ending below ground level | One metre | 580.12 |
| vi | From 180 m upto 210 m depth ending below ground level | One metre | 596.48 |
| vii | From 210 m upto 240 m depth ending below ground level | One metre | 610.32 |
| viii | From 240 m upto 270 m depth ending below ground level | One metre | 639.27 |
| ix | From 270 m upto 300 m depth ending below ground level | One metre | 663.18 |
| x | From 300 m upto 330 m depth ending below ground level | One metre | 695.90 |
| xi | From 330 m upto 360 m depth ending below ground level | One metre | 719.80 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|-----------|-----------------------------|
| 12 e | Labour Charges for inserting 150 mm/200mm/250 mm dia (M.S. Casing pipes assembly with slots or with out slots) in the drilled hole including welding the joints etc., complete and supplying and packing the annular space with pebbles of size and quality as approved by the Executive Engineers of TWAD Board. | | |
| i. | 150 mm dia Casing Pipes assembly | One metre | 256.48 |
| ii | 200 mm dia Casing Pipes assembly | One metre | 256.48 |
| iii | 250 mm dia Casing Pipes assembly | One metre | 260.83 |
| 13 a | Labour Charges for inserting PVC Casing pipes assembly (with slots or without slots) in the drilled hole including jointing the pipes with PVC Couplers with Cement paste etc., complete, supply and packing the annular space with pebbles of size and quality as approved by the Executive Engineers of TWAD Board | | |
| i. | 150 mm dia Casing Pipes assembly | One metre | 248.59 |
| ii | 200 mm dia Casing Pipes assembly | One metre | 256.48 |
| iii | 250 mm dia Casing Pipes assembly | One metre | 256.48 |
| 13 b | Charges for developing the Borewell with air compressor of 600 CFM capacity (Minimum 8 Hours) including transportation, labour and fuel charges for compressor as directed by TWAD Officers and conducting yield test by 'V' notch method. | One hour | 1676.53 |
| | Note : I) 150 mm dia bore, reaming should be done upto 300mm dia. | | |
| | II) 200 mm dia bore, reaming should be done upto 300mm dia and thereafter 400,450 etc. | | |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|-----------|-----------------------------|
| 14 | Drilling of borewell anywhere in Tamilnadu including transportation from one place to another place within Tamilnadu in alluvial soil or sedimentary strata of clay and sand or sand, stone, shale, pebbles, boulders etc., by first taking a pilot bore of 140 mm/150mm dia and then enlarging to required dia by direct or reverse rotatry mud and circulation method using Contractor's rig, fuel, labour, drilling, betonite mud and water required for drilling at the site shown by the TWAD Officers including construction of mud pit (only Calyx drills are to be used). | | |
| a. | Drilling 140 / 150 mm dia Pilot Bore upto 60m depth ending below ground level. | One metre | 829.29 |
| b. | Reaming from 140/150 mm dia pilot bore to 300 mm dia bore as directed by the TWAD Board Officers upto 60 m Depth ending from ground level | One metre | 234.06 |
| c. | Labour charges for inserting 150 mm dia M.S. Casing pipes assembly (With slots or without slots) in the drilled hole including welding the joints and packing annular space with pebbles of size and quality as approved by the Executive Engineer / TWAD Board | One metre | 210.38 |
| d. | Labour Charges for inserting PVC casing pipes assembly (with slots or without slots) in the drilled hole including jointing the pipes with PVC couplers with cement paste etc. complete | | |
| i. | 140 mm OD PVC Casing Pipes Assembly | One metre | 179.95 |
| ii | 165 mm/168 mm dia PVC Casing pipes Assembly | One metre | 210.38 |
| e. | Charges for developing the borewell with air compressor of 300 CFM capacity (Minimum 8 Hours) including transportation labour and fuel charges for compressor as directed by TWAD Board Officers and conducting yield test by 'V' notch method. | One hour | 1303.93 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|-----------|-----------------------------|
| f. | Drilling of 12" dia vertical borewell so as to have a finished size of 6" dia borewell in boulder area to any required depth as decided by the TWAD Board Officers including Transportation from one place to another place with in Tamilnadu State by direct or reverse rotary mud circulation method using Contractor's rig tools, fuel, labourers, bentonite mud and water required for drilling at the site shown by the TWAD Officers including construction of mud pit etc. using only calyx rigs. | One metre | 1595.99 |
| 15 a. | Conveyance of Hand Pumps and its accessories from divisional stores to site of works | | |
| i. | Conveyance upto 10 Kms | Each | 478.08 |
| ii | Conveyance 10 to 20 Kms | Each | 600.03 |
| ii | Conveyance 20 to 40 Kms | Each | 731.24 |
| iv | Conveyance above 40 Kms | Each | 847.48 |
| | Note : i) Conveyance of Filter Point, Handpump with GI Pipes and its accessories from divisional stores to site of works. 50% of the rate of conveyance of hand pumps, with its accessories is applicable for this item for the respective leads as indicated above ii) If the Mark II hand pump is conveyed in cart track even for part distance 20 % extra over the above rate shall be adopted. | | |
| b i. | Erection of deep well hand pumps upto 40 m | Each | 847.25 |
| ii | Above 40 m | Each | 966.57 |
| c. | Erection of shallow well hand pumps | Each | 373.97 |
| d. | Erection Extra deep well hand pumps | Each | 1094.01 |
| e. | Removal of deep well hand pumps from borewell | | |
| i. | Up to 40 m | Each | 847.25 |
| ii | Above 40 m | Each | 1067.70 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|------|-----------------------------|
| f) | Attending repairs to deep well handpumps for borewells inclusive of removal of G.I. Pipes, Plunger rods, Cylinder and re-erection of hand pumps inclusive of lowering the GI Pipes Plunger rods cylinder, jointing etc. | | |
| i. | Upto 30 M | Each | 899.76 |
| ii) | Above 30 M | Each | 1052.02 |
| 16 a | Erection of filter point with G.I. Pipes of 32 mm to 65 mm dia. | Each | 244.59 |
| b | Removing the choked filter point with G.I. Pipes of 32 mm to 65 mm dia and re-erecting in another place within 1.00 KM radius after cleaning the filter points G.I. Pipes etc., Complete upto 8 m depth | Each | 406.46 |
| 17a | ERECTION OF POWER PUMPSET IN BORE/OPENWELL | | |
| | Labour Charges for erection of Horizontal shaft, centrifugal pumpset (Coupled/Monoblock) in bore well/Open well including fixing of suction pipe and foot valve upto a maximum depth of 7 metres and delivery pipes to the required length with valves, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPIC switches starter, Voltmeter, Ammeter, Capacitor single phasing preventor and laying and jointing the cables and twin earthing as per IE rules including providing bed blocks etc., complete and operating the pumps and trial run for 10 days including signing of completion of reports as required by EB authorities. | | |
| i. | Upto 3 HP | Each | 5474.04 |
| ii | Above 3 HP upto 7.5 HP | Each | 7045.78 |
| iii | Above 7.5 HP to 20 HP | Each | 8256.36 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| 17 b | ERECTION OF POWER PUMPS IN BORE WELL | | |
| | Labour charges for erection of twin packer duplex type jet pumps in borewells upto 150 mm dia including fixing of Suction pipe regulating valves with jet assembly upto a maximum depth of 30 m and delivery pipe valves pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPICN switches starter, Voltmeter, Ammeter, three indicator lamps capacitor and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumps and trail run for 10 days including signing of completion of reports as required by EB authorities and finishing the pipe holes including the foundation bolts, nuts and earth pits. | | |
| i. | Upto 3 HP | Each | 7322.63 |
| ii | Above 3 HP upto 7.5 HP | Each | 8555.86 |
| iii | Beyond 7.5 HP upto 20 HP | Each | 9782.80 |
| | Note : If depth of erection exceeds beyond 30 m 10% increase over the basic rate is allowed | | |
| 17 c | Labour charges for the erection of submersible pumpset in borewell/openwell including fixing and jointing submersible cable with proper clamps upto the starter to required depth and also fixing of riser pipes to the required depth valves erection clamps, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPICN switches starter, Voltmeter, Ammeter, three pilot (indicating) lamps capacitor single phasing preventor, water level guard and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumpset and trail run for 10 days. | | |
| i. | Upto 5 HP | Each | 7443.44 |
| ii. | Above 5.00 HP to 10.00 HP | Each | 8529.44 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|------------------------------|-----------------------------|
| iii) | Above 10.00 HP to 20.00 HP | Each | 9463.17 |
| 17 d | Conveyance of power pumpset (centrifugal, jet and submersible) and its accessories from divisional stores to site of works. | | |
| | Conveyance upto 10 Kms | Each | 1040.70 |
| | Conveyance 10 to 20 Kms | Each | 1143.89 |
| | Conveyance 20 to 40 Kms | Each | 1693.23 |
| | Conveyance 40 to 60 Kms | Each | 2064.58 |
| | Conveyance 60 to 80 Kms | Each | 2709.68 |
| | Conveyance above 80 Kms | Each | 3107.33 |
| | Note : For item 17 (a), (b) and (c) i. Removal of centrifugal pumpset/ jet pumps/ submersible pumpsets and its accessories from borewell/ open well for attending repairs 50% of the rates mentioned under item 17 (a), (b) and (c) may be allowed for the respective Horse power. | | |
| | ii Re-erection of centrifugal pumpsets, jet pumpsets and its accessories into the borewell/ openwell after attending the repairs 50% of the rate mentioned under item 17 (a), (b) and (c) may be allowed for respective Horse power. | | |
| 18 | Hire charges : | | |
| a | Sheet piles (Larsen) | Per Pile/ Per day | 4.23 |
| b | Sheet piles (For dingham) | Per Pile/ Per day | 6.52 |
| c | Compartment sheet with Grills (3' - 0" Wide) | Per sheet/ Per day | 6.52 |
| d | Rate for flushing of borewell of 6" dia requiring less than 4 hours operation using drill rods/ hose with required size of pipes for various capacity compressor including transportation, labour, and fuel charges for compressors as directed by the TWAD Officer and conducting yield test by 'V' notch method if required. | | |
| i. | 600 Cfm (100 /150 PSI) | 1 hour (or) Part there of | 1676.30 |
| ii) | 300/250 Cfm (100 PSI) | 1 hour (or) Part there of | 1303.93 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|------------------------------|-----------------------------|
| iii) | 125 Cfm (100 PSI) | 1 hour (or) Part there of | 1194.56 |
| | Note : Minimum charges for 8 (eight) hours will be levied if the air compressor issued for other departmental works or if the air compressor is hired to other departments. | | |
| e | Helmet | Per day/ 8 hours | 6.37 |
| f | Hand test pump | Per day/ 8 hours | 60.60 |
| g | Pile hammer | Per day/ 8 hours | 6.37 |
| h | Concrete mixer 5 Cft. With driver(Excluding cost of fuel) | Per day/ 8 hours | 572.11 |
| i. | Concrete mixer 7 Cft. With driver(Excluding cost of fuel) | Per day/ 8 hours | 863.38 |
| j | Hand operated winch | Per day/ 8 hours | 56.35 |
| k | Pile cap | Per day/ 8 hours | 15.09 |
| l | Dewatering using 3hp to 70hp diesel engine pumpset including Hire charges, cost of Diesel, Engine oil, pump operator, labour charges, conveyance of pumpset and fuel to site and back, loading, unloading and any other incidental charges etc., complete. | | |
| i) | Hire charges for Diesel Pump set For 3 HP | Per Hour | 170.71 |
| ii) | Hire charges for Diesel Pump set For 5 HP | Per Hour | 223.68 |
| iii) | Hire charges for Diesel Pump set For 7.5 HP | Per Hour | 319.89 |
| iv) | Hire charges for Diesel Pump set For 10 HP | Per Hour | 421.11 |
| v) | Hire charges for Diesel Pump set For 12.5HP | Per Hour | 487.32 |
| vi) | Hire charges for Diesel Pump set For 15 HP | Per Hour | 548.54 |
| vii) | Hire charges for Diesel Pump set For 20 HP | Per Hour | 670.96 |
| viii) | Hire charges for Diesel Pump set For 40 HP | Per Hour | 1125.68 |
| ix) | Hire charges for Diesel Pump set For 50 HP | Per Hour | 1335.54 |
| x | Hire charges for Diesel Pump set For 60 HP | Per Hour | 1580.39 |
| xi | Hire charges for Diesel Pump set For 70 HP | Per Hour | 1835.25 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|-----------|-----------------------------|
| 19 a | Labour for tying barbed wire fencing horizontally through the holes in RCC posts with required tension. | One metre | 6.52 |
| b | Labour for tying barbed wire fencing vertically with required tension | One metre | 6.52 |
| 20 | Labour charges for putting bore holes of size 3" to 4" in river bed in sandy and other loose soils using hand boring sets including the cost of hire charges, conveyance charges of hand boring sets, collection of soil sample at frequent intervals and as directed by TWAD Board Officers. | One metre | 341.60 |
| 21 | Desilting light or sandy soil or silt from infiltration wells below water level including the charges for special T&P and air compressor etc. complete. | One cu.m. | 1358.73 |
| 22 | Surveying and levelling for the proposed alignment of pipe line by Total station method by engaging qualified Engineers with minimum qualification of B.E. (Civil), Technical Assistant Grade I & II and Mazdoor category I, using the contractor own survey instruments, Special tools and plants vehicle hire charges, transportation, initial incidental charges such as jungle clearance etc. Preparation of Tree map and alignment plan, duly incorporating salient details, such as topographical features, permanent land marks, bench marks etc. at appropriate points, alignment plans and longitudinal section plan at 30 m intervals in addition to other salient locations such as branches, bends, culverts, river crossing etc, with all field particulars in Auto Cad and submission of plan 3 set, along with LF books with making all entries with certification by above qualified Engineers with soft copy and marking TBM stones at required places with bench mark registers soft copies 3 set and hard copy 5 set etc., complete as directed by TWAD Board officers. | 1KM | 3334.76 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| 23 | Dismantling | | |
| | Dismantling, clearing away and carefully stacking materials useful for reuse for any thickness of walls | | |
| i | Brick / stone in clay walls under 3 m high | cu.m | 39.00 |
| ii | Brick / stone in clay walls, add for every additional 3 m or part there of over the initial height of 3 m | cu.m | 13.00 |
| iii | Mud / sun dried brick walls under 3 m high | cu.m | 26.10 |
| iv | Mud / sun dried brick walls,add for every additional 3 m or part thereof over the initial height of 3 m | cu.m | 7.50 |
| v | Brick / stone masonry in lime mortar walls under 3 m high | cu.m | 119.50 |
| vi | Brick / stone masonry in lime mortar walls, add for every additional 3 m or part thereof over the initial height of 3 m | cu.m | 13.30 |
| vii | Brick / stone masonry in Cement mortar walls under 3 m high | cu.m | 146.80 |
| viii | Brick / stone masonry in Cement mortar walls, add for every additional 3 m or part thereof over the initial height of 3 metre | cu.m | 15.50 |
| ix | Terracing work in roof or floor | sqm | 39.60 |
| x | Flag stone in roof or floor including lifting | sqm | 20.90 |
| xi | Cut stone slab over culverts upto 3.3.m height below ground level | cu.m | 609.00 |
| xii | Cut stone slab over culverts over 3.3.m height below ground level | cu.m | 635.00 |
| xiii | Removal of cut stone slabs / RCC Cover slabs | sqm | 266.00 |
| xiv | Refixing cut stone slabs/ RCC Cover slab | sqm | 291.00 |
| xv | Pantile or Mangalore tiled roof without roof timbers | sqm | 10.40 |
| xvi | Flat and Pan tiles or Mangalore tiles over flat tiles, without roof timbers | sqm | 14.50 |
| xvii | Asbestos cement sheets roofing without roof timbers | sqm | 9.30 |
| xviii | Corrugated iron sheet roofing over pan tiles, without roof timbers | sqm | 15.50 |
| xix | Old Thatched roof, including tying materials into small bundles for reuse | sqm | 4.60 |
| xx | Wrought and put up framed timbers in roofs/floors | cu.m | 383.00 |
| xxi | Doors and windows including removal of frames, hinges and fastenings | sqm | 79.30 |
| xxii | Drystone apron or revetment, stacking within 40 m lead | cu.m | 67.90 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| xxiii | Grouted stones apron or revetment, stacking within 40 m lead | cu.m | 79.30 |
| xxiv | Dry stone masonry walls | cu.m | 57.90 |
| xxv | *Dismantling lime concrete | cu.m | 184.00 |
| xxvi | *Dismantling plain cement concrete | cu.m | 252.00 |
| xxvii | *Dismantling reinforced cement concrete | cu.m | 3820.00 |
| | Note* 1) The rate for dismantling lime concrete, cement concrete and R.C. concrete are exclusive of bailing charges. The rate is same in all floors.2) For dismantling below ground level 25% extra over the basic rates (i.e. the rates already available in the schedule of rate) for dismantling is allowed. | | |
| xxviii | Chipping of concrete and roughening the surface | sqm | 20.90 |
| xxix | Pressed tiles & weathering course | sqm | 23.80 |
| xxx | One course of pressed tile roof finish in Cement Mortar | sqm | 13.30 |
| xxxi | One course of terrace bricks roof finish in Cement Mortar | sqm | 15.50 |
| xxxii | Two course of flat tiles roof finish in Cement Mortar | sqm | 15.50 |
| xxxiii | Mosaic in situ finish in cement mortar in flooring and in wall surface | sqm | 32.70 |
| xxxiv | Floor finish and dadoing walls in Cement Mortar with mosaic tiles/ glazed tiles/ cuddapah slabs. | sqm | 31.50 |
| xxxv | Clearing the site | | |
| a | Clearing Heavy jungle | sqm | 4.60 |
| b | Clearing Light jungle | sqm | 3.45 |
| c | Clearing Scrub jungle | sqm | 3.15 |
| d | Uprooting and removing large palmyrah/ coconut stumps | each | 91.70 |
| e | Uprooting and removing small palmyrah/ coconut stumps | each | 65.60 |
| f | Removing weeds in channel and drain | sqm | 1.25 |
| g | Cleaning juliflora jungle with uprooting | sqm | 5.20 |
| h | Cleaning juliflora jungle without uprooting | sqm | 3.95 |
| | Note : Definition of large and small stumps : The Diameter of Stumps shall be 1/3 of the circumference at a point 0.6 m above the highest ground level at the stump or the circumference near the top of the stump if | | |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| | the stump is less than 0.60 m in height (The measurement for circumference and determination of the diameter will be to the nearest full centimetre). Only stumps with Circumference of 30 cm and more will be measured for payment. The Sl. No d, is for Stumps of Diametre above 30 cm and Sl. No. e is for stumps of diametre 15 to 30 cm. | | |
| 24. | OPEN WELL EXCAVATION | | |
| 1 | Earth work open well excavation, complying with relevant clauses of T.N.D.S.S. Well sinking and with lead up to 10 metres in sand, silt or other loose soil, Wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil - First depth of 2 metres. | Cu.m | 42.50 |
| 2 | Earth work open well excavation, complying with relevant clauses of T.N.D.S.S. Well sinking and with lead upto 10 metres in Hard stiff clay, stiff black cotton soil, hard red earth, shales, murrums gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil - First depth of 2 metres | Cu.m | 63.40 |
| 3 | Earth work open well excavation, complying with relevant clauses of T.N.D.S.S. Well sinking and with lead up to 10 metres in soft disintegrated rock, laterite, soft rock or kankar, not requiring blasting - First depth of 2 metres | Cu.m | 97.70 |
| 4 | Open well excavation, complying with relevant clauses of T.N.D.S.S. Well sinking and with lead up to 10m in Medium rock and Dense medium rock not requiring blasting. First depth of 2 metres | Cu.m | 157.20 |
| 5 | Open well excavation complying with relevant clauses of T.N.D.S.S. well sinking and with lead up to 10m in Medium rock and Dense medium rock requiring blasting. First depth of 2 metres | Cu.m | 236.40 |
| 6 | Open well excavation complying with relevant clauses of T.N.D.S.S. well sinking and with lead up to 10m in hard granite measured in solid including blasting and stacking - First depth of 2 metres | Cu.m | 461.00 |
| 7 | Sinking well in loose soils, light black cotton soil, sandy loam and ordinary soil under water including bailing or pumping charges if necessary etc., complete - First depth of 2 metres | Cu.m | 65.90 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|------|-----------------------------|
| 8 | Sinking well in sand, including bailing or pumping charges if necessary etc. complete - First depth of 2 metres | Cu.m | 92.40 |
| 9 | Sinking well in hard stiff clay, light black cotton soil, hard red earth, shales, murram, gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil including bailing or pumping charges if necessary etc. complete - First depth of 2 metres | Cu.m | 92.40 |

Note : Open well Excavation

- a) Up to 2m diameter of wells, 10 percent excess will be allowed over the basic rates for open well excavation.
- b) The rates do not include baling charges. If the dewatering is to be done departmentally, 10 percent of cost of excavation shall be allowed for dewatering for estimate purposes. Actual or 10 percent whichever is less to be allowed for dewatering charges. For any expenditure above this percentage prior approval of the competent authority should be obtained.
- c) Stage depth rates for well excavation" The stage depth for adopting the rates from the schedule of rates should be reckoned from ground level only irrespective of the fact, whether there is parapet wall or not.
- d) For open well excavation for rates up to 12m depth, the progression would be x, 2x, 3x, 4x, 5x, and 6x and rate beyond 12 metre depth, the progression should be 8x, 10x, 12x, 14x and 16x and so on.

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| 25. | RATE FOR EARTH WORK BY DEPLOYING MACHINERIES | | |
| 1 | Earth work in all soils except hard rock requiring blasting and conveying for formation of bund with lead of 0 to 100 metre deploying earth moving machineries and tippers including benching, formation of bunds, breaking clods, sectioning etc., complete. | Cu.m | 45.55 |
| 1.a. | Earth work in all soils except hard rock requiring blasting and conveying for formation of bund with an extra lead of every 100 metre or part thereof deploying earth moving machineries and tippers including benching, formation of bunds, breaking clods, sectioning etc., complete. | Cu.m | 3.60 |
| 2 | Earth work deploying earth moving machineries for desilting channel and forming bund on either side and depositing the earth on banks including jungle clearance etc., complete. | | |
| a. | Having width upto 3 m | Cu.m | 26.85 |
| b. | Having width of 3 m – 10 m | Cu.m | 32.95 |
| 3 | Earth work excavation deploying earth moving machineries for desilting channel having a width of more than 10 m and forming bund on either side and depositing the earth on banks including jungle clearance etc., complete. | Cu.m | 38.30 |
| 26 | Lift charges - concrete - Brick or stone Masonry above or below ground level | | |
| | Note: The rate for lime concrete, cement concrete, reinforced cement concrete, brick work and stone masonry worked out as per Standard Data will apply to basement and foundation up to a depth of 1.50 m below ground level only (basic rate) | | |
| | Statement I | | |
| a) | Concrete above ground level | | |
| 1 | Add to the basic rate for works up to 4.50m height in ground floor (height to be reckoned from floor level i.e. plinth level in ground level) | Cu.m | 68.00 |
| 2 | Add for works in every upper floor over the rate of preceding floor | Cu.m | 134.00 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|------|-----------------------------|
| 3 | Brick or stone masonry above ground level | | |
| i. | Add to the basic rates for works up to 4.50m height in ground floor (height to be reckoned from floor level i.e. plinth level in ground level) | Cu.m | 44.80 |
| ii. | Add for works in every upper floor over the rate of preceding floor | Cu.m | 90.30 |
| Note: i) | For the works above 4.5m height in individual floor the rate of next floor may be taken. The extra rates allowed for building works are applicable to irrigation works and road works also. The extra rates may be allowed for the structures beyond 1.00m above ground level. | | |
| ii) | The extra rates may be allowed considering the ground level as datum in respect of service reservoirs (where there is no plinth level) | | |
| | Statement II | | |
| a) | Concrete below ground level | | |
| 1 | Add the basic rate for works above 1.5m depth and upto 4.5m depth below ground level | Cu.m | 67.00 |
| 2 | Add the basic rate for works above 4.5m depth and upto 9.0 m depth below ground level | Cu.m | 134.40 |
| 3 | Add extra over the above item 2 for every additional 4.5m depth beyond 9m depth below ground level | Cu.m | 134.40 |
| B) | Brick or stone masonry below ground level | | |
| 1 | Add the basic rates for works above 1.5m depth and up to 4.5m depth below ground level | Cu.m | 45.00 |
| 2 | Add the basic rates for works above 4.5m depth and up to 9.0m depth below ground level | Cu.m | 90.30 |
| 3 | Add extra over the above item 2 for every additional 4.5m depth beyond 9m depth below ground level | Cu.m | 90.30 |
| | Note : | | |
| | 1. The above extra rates are applicable for buildings, irrigations, and road works. | | |
| | 2. First Grade stone includes hard granite, trap, etc. second Grade stone includes gneiss, lime stone etc. | | |
| | 3. The class of materials to be used should always be defined in the items, description in tender schedules, contract schedules etc. | | |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|------|-----------------------------|
| | 4. For reinforced cement concrete work, only the hardest locally available stone will be used, if it has good bonding surface and is otherwise suitable proportions for concrete are defined in the relevant standard specification. | | |
| | 5. Note under SI.No.179 to 187 in the standard data book applies to arches over doors and windows. For large arches in bridges and irrigation works, addition to this rate, extra cost of centering is to be made. | | |
| 6 | For concrete mix | | |
| a. | Equal mixes (i.e.) 50 percent mortar mixes only should be adopted for plain concrete for foundation, flooring and RC Concrete for roofs, lintels, etc. wherever cement is used with hard broken stones or brick jelly. | | |
| b. | 40 percent or 50 percent mortar mixer may be adopted where lime concrete with brick aggregate is used according to the condition at site. | | |
| 27 | CONCRETE VIBRATORS | | |
| 1 | Where vibrators are specified for consolidation in plain Cement concrete, this rate per cu.m over and above the provision made in the standard data book for consolidation with manual labour may be allowed. | Cu.m | 39.70 |
| 2 | Where vibrators are specified for consolidation in RCC, this rate per cu. m over and above the provision made in the standard data book for consolidation with manual labour may be allowed. | Cu.m | 53.50 |
| 28 | Plastering | | |
| 1 | Clean removal of lime plaster from walls and racking out joints 20mm deep or from terraced roofs racking out joints 12mm deep | sq.m | 5.40 |
| 2 | Clean removal of lime plaster from walls | sq.m | 4.20 |
| 3 | Clean removal of cement plaster from walls | sq.m | 4.50 |
| 4 | Clean removal of cement plaster from walls and racking out joints 20mm deep | sq.m | 5.90 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------------|-----------------------------|
| 29 | White washing and colour washing and distempering | | |
| 1 | Thorough scrapping of old plastered surface | sq.m | 2.45 |
| 2 | Washing of plastered surface with soap, soda and water(or with soda, lime, brush and water) | sq.m | 3.10 |
| 30 | Painting, Wood Oiling, Tarring, Varnishing, Bee's Waxing etc | | |
| 1 | Removing old paint from doors and windows by blow lamp and scrapping, including removal and refitting of shutters | sq.m | 19.70 |
| 2 | Removing old paint from doors and windows by scrapping and refitting of shutters | sq.m | 8.30 |
| 3 | Removing paint from doors, windows and wood works by manual labour | sq.m | 5.70 |
| 4 | Removing old paint from structural steel by blow lamp or sand paper | sq.m | 11.80 |
| 5 | Scrapping and removing old paint from structural steel by manual labour | sq.m | 5.30 |
| 6 | Removing old paint from iron surface with sand paper | sq.m | 5.00 |
| 7 | Repolishing the mosaic flooring including polishing stone and hire charges for polishing machine but excluding cost of electrical charges. | sq.m | 11.60 |
| 31 | Miscellaneous | | |
| i. | Supplying & filling up the empty Cement gunny bags with sand, stitching them conveying the same to site and stacking as directed within a lead of 10m excluding cost of bags, jute, thread, needle, sand etc. (labour only) | Bag | 5.00 |
| ii. | Driving piles upto 15 cm dia in river bed | RM | 15.40 |
| iii. | Pointing the edge and driving bamboo / casurina/ eucalyptus piles into river bed for the first 1m depth below groundlevel | Each | 13.20 |
| iv. | Driving bamboo/ Casurina/ eucalyptus piles into ground beyond 1m depth from ground level. For every 1m (or) part thereof | RM | 13.20 |
| 32 | River Conservancy of Korambu Works | | |
| v. | Brush wood bundles one metre girth and one metre long within an initial lead of 1.6 KM | One bundle | 2.55 |
| vi. | Extra for every additional lead of 1.6 KM (for the above item) | One bundle | 0.30 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| vii. | Driving casurina piles into bed including scaffolding etc., complete | RM | 6.40 |
| viii. | Casurina walling pieces 40mm to 50mm diameter including fixing with nails and tying with ropes. | RM | 8.90 |
| 33 | Labour wrought and put up for Doors, Windows and Ventilators | | |
| 1 | Labour wrought and put up in position of frames inclusive of fixing holdfasts for doors, windows and ventilators etc. | Cu.m | 7770.00 |
| 2 | Labour wrought and put up in position of shutters for fully panelled doors (external or internal) moulded panels including labour charges for fixing furniture fittings, complying with standard drawings and standard specification. | sq.m | 878.00 |
| 3 | Labour wrought and put up in position of shutters for fully panelled doors internal five plywood panels including labour charges for fixing furniture fittings, complying with standard drawings and standard specification. | sq.m | 729.00 |
| 4 | Labour wrought and put up in position of shutters for glazed and panelled doors including labour charges for fixing furniture fittings, complying with standard drawings and standard specification. | sq.m | 816.00 |
| 5 | Labour wrought and put up in position of shutters for framed and planked doors including labour charges for fixing furniture fittings, complying with standard drawings and standard specification. | sq.m | 681.00 |
| 6 | Labour wrought and put up in position of shutters for ledged and braced and planked doors including labour charges for fixing furniture fittings complying with standard drawings and standard specification. | sq.m | 460.00 |
| 7 | Labour wrought and put up in position of shutters for glazed windows including labour charges for fixing furniture fittings, complying with standard drawings and standard specification. | sq.m | 816.00 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|------|-----------------------------|
| 8 | Labour wrought and put up in position of shutters for windows panelled including labour charges for fixing furniture fittings, complying with standard drawings and standard specification. | sq.m | 878.00 |
| 9 | Labour wrought and put up in position of shutters for windows, ledged, braced and planked doors including labour charges for fixing furniture fittings, complying with standard drawings and standard specification. | sq.m | 460.00 |
| 10 | Labour wrought and put up in position frames, shutters for ventilators glazed fixed double frames and with wire netting complete fixed in position in accordance with standard drawings and standard specification. | sq.m | 729.00 |
| 11 | Labour wrought and put up in position frames shutters for swing ventilators and fixed in position in accordance with standard drawings and standard specification. | sq.m | 682.00 |
| 12 | Labour charges for fixing doors along with frames in position etc. complete(finished work) | sq.m | 130.00 |
| 13 | Labour charges for fixing windows and ventilators along with frames in position etc. complete | sq.m | 163.00 |
| 14 | Labour wrought and put up in position flush shutters for single leaf shutters. | sq.m | 122.00 |
| 15 | Labour wrought and put up in position flush shutters for Double leaf shutters | sq.m | 188.00 |
| 16 | Labour wrought and put up in position fly proof wire gauge shutters for doors, windows and ventilators | sq.m | 436.00 |
| 17 | Labour wrought and put up for providing teak wood weld mesh screen with frames 3"x3" (0.075mx0.075m) | sq.m | 609.00 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|---------|-----------------------------|
| 34 | Breaking metals | | |
| i. | Labour charges for breaking 40mm metal from departmental blasted stones | Cu.m | 232.00 |
| ii. | Labour charges for breaking 20mm metal from departmental blasted stones | Cu.m | 346.00 |
| iii. | Labour charges for breaking 50mm metal from departmental blasted stones | Cu.m | 138.50 |
| 35 | Cement Mortar | | |
| i. | Grinding Mortar (Special Grinding lime) | Cu.m | 210.40 |
| ii. | Grinding Mortar (Ordinary Grinding lime) | Cu.m | 160.40 |
| iii. | Mixing Mortar – Cement by manual | Cu.m | 65.90 |
| iv. | Mixing Mortar- Cement by Machine Mixing | Cu.m | 87.50 |
| 36 | Metal & Iron works | | |
| i. | Petty iron work for truss, straps etc. (Wrought & fixed) labour only | Kg | 31.50 |
| ii. | Iron works for trusses & record racks (labour only) | kg | 29.10 |
| iii. | Fixing in position mild steel grills for windows, ventilators, etc. | Kg | 18.20 |
| iv. | Fixing MS rods round/square for windows | Kg | 16.90 |
| v. | Fixing iron bars in windows and ventilators | Kg | 16.90 |
| 37 | Conveyance of excavated earth from the narrow street (width less than 3.75m) to stock yard at nearest place (up to a lead of 5.00Km) including Head load charges from 10 meters to 100 meters and conveyance charges. | Cum | 88.80 |
| 38 | Re-Conveyance of earth from the stock yard to the narrow street (width less than 3.75m) for refilling the trenches after laying the pipe line (up to a lead of 5.00Km) including Head load charges from 10 meters to 100 meters and conveyance charges. | Cum | 88.80 |
| 39 | Disposal of surplus earth including loading and conveyance within a distance of 5 km (basic cost of earth is zero) including loading charges and Conveyance Charges of 5 kms distance. | Cum | 78.20 |
| 40 | Lighting arrangements (maintenance works) with genset : | Per day | 2050.00 |
| | Hire charges for portable Genset 1.00 KVA with 2 Nos. of 150W flood light including all incidental charges, transportation, crew charges and fuel charges etc., complete. | | |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|----------|-----------------------------|
| 41 | Hire charges for deploying earth moving machinery (JCB/Poclaim) for earthwork including diesel, oil and labour charges etc., complete. | | |
| a | JCB | Per Hour | 847.00 |
| b | Poclaim | Per Hour | 2050.00 |
| 42 | Supply delivery of natural Pebbles filter media for Filter bed operation & sedimentary bore well of spherical in shape and allow even distribution in support bed with good flow. The media should be double washed, screened, kiln dried and classified into various sizes to meet specification including all incidental charges, conveyance, loading & unloading etc., as directed by the TWAD Board officers. | | |
| a | Size : 5 mm to 8mm Cum 4095.00 | | |
| b | Size : 20 mm to 70 mm Cum 3745.00 | | |
| 43. | BARRICADING FOR PIPELINE WORKS FOR THE WSS / UGSS WORKS | | |
| i | Barricading work (Where, there is less traffic areas and broader roads etc.) for laying of pipe line using casurina poles at 1.50m center to center (8cm to 10cm dia and 1.80m height) vertical with horizontal poles in three rows including painting the vertical poles in the road facing sides with ready mix paint, tying the vertical and horizontal poles with coir rope including fixing charges and fixing 75mm dia reflectors including earth work excavation for fixing vertical posts and finally removing and stacking the materials safely for further use etc., complete and as directed by TWAD Board officers. | RM | Rs.41.00 |
| ii | Barricading work (Where the lines are in narrow width of municipality area, busy streets like Market, Bus-stand and in the Highways etc.) for laying of pipe line using casurina poles at 1.50m center to center (8cm to 10cm dia. and 1.80m height) vertical with horizontal poles in | | |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| | two rows, painting the vertical poles in the road facing sides with ready mix paint, tying the vertical and horizontal poles with coir rope including supplying, delivery and fixing of GI sheet (0.90m x 0.8mm thick) in the horizontal poles and fixing 75mm dia. reflectors including earth work excavation for fixing vertical posts and finally removing and stacking the materials safely for further use etc., complete and as directed by TWAD Board officers. | RM | Rs.78.00 |
| 44. | SHORING AND STRUTTING FOR THE WSS / UGSS WORKS | | |
| | Shoring, and strutting with sheet piles of size width 400 mm x height of 3m x thickness of 9mm as per IS 2314-1986 by driving on both sides of the trench from Ground Level up to the required depth and connecting the above sheet piles by horizontal strutting with sheet piles at an interval of 1.0m, fixing the sheet piles by connecting the horizontal strutting with casurina poles of 8cm to 10cm dia. at 1.50m interval and including removing the sheet piles after the pipelines are laid, jointed, tested, and stacking it safely for other uses. It includes the cost of sheet piles and casurina poles including labour charges for erecting the sheet piles, driving the sheet piles, removing the sheet piles, fixing Casurina poles, etc., complete and all other incidental charges for the depths (i) 0-3mts., (ii) 0-4mts., (iii) 0-5mts., (iv) 0-6mts., (v) 0-7mts. and (vi) 0-8mts. | | |
| a | 0 to 3 m | RM | 2039.85 |
| b | 0 to 4 m | RM | 2765.43 |
| c | 0 to 5 m | RM | 3505.10 |
| d | 0 to 6 m | RM | 4229.70 |
| e | 0 to 7 m | RM | 4970.34 |
| f | 0 to 8 m | RM | 5775.15 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| 45. | RATES FOR TRENCHLESS TECHNOLOGY FOR PIPE LAYING WORK IN RAILWAY/NHAI/SH/NH CROSSINGS | | |
| i | <p>Excavating of driving pit and receiving pit of size 3.00m (length) x 3.50m (breadth), upto 5m depth in all soil strata including shoring and strutting using 6mm tk MS Plate of size 3.50m x 3.50m usable for 20 operations and providing 16mm thickness MS plate of size 3.00m x 3.50m with 100mm x100mm x 12mm angles of 4m length for holding the MS plates for Thrust arrangements to receive the impacts during pushing operation of encasing pipe. Lowering the following size of MS encasing pipe by using Contractor's crane and machineries and jointing MS pipes by welding, across the National Highways/State Highways/ Railways/ Canal crossing etc and driving the horizontal bore by pushing / jacking method (trenchless technology method) using contractor's machineries such as cranes, jacks, jacking materials, generator, welding machineries, compressor, jack hammer and other equipments etc. without interfering and causing any hindrance to the movement of traffic or any other vehicles, without any disturbances to the railway/road/canal formation etc. including bailing / pumping of water where ever necessary without affecting any installation like water supply pipeline/telephone cable, electric cables etc. passing nearby area and scooping the earth inside the pipes and pit and depositing the surplus earth in a convenient place and leveling the site after completion of entire work as directed by TWAD Engineers. The rate includes the cost of driving pit, thrust bed/wall and receiving pit to the depth of om to 2m excluding the cost of MS pipes.</p> | | |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| a | For 200mm dia MS encasing pipe for various thickness | RM | 7840.00 |
| b | For 250mm dia MS encasing pipe for various thickness | RM | 7920.00 |
| c | For 300mm dia MS encasing pipe for various thickness | RM | 8010.00 |
| ii | Excavating of driving pit and receiving pit of size 3.00m (length) x 3.50m (breadth), depth upto 5m in all soil strata including shoring and strutting using 6mm tk MS Plate of size 3.50m x 3.50m usable for 15 operations and providing 16mm thickness MS plate of size 3.00m x 3.50m with 100mm x100mm x 12mm angles of 4m length for holding the MS plates for Thrust arrangements to receive the impacts during pushing operation of encasing pipe. Lowering the following size of MS encasing pipe by using Contractor's crane and machineries and jointing MS pipes by welding, across the National Highways/State Highways/ Railways/Canal crossing etc and driving the horizontal bore by pushing / jacking method (trenchless technology method) using contractor's machineries such as cranes, jacks, jacking materials, generator, welding machineries, compressor, jack hammer and other equipments etc. without interfering and causing any hindrance to the movement of traffic or any other vehicles, without any disturbances to the railway/road/canal formation etc. including bailing / pumping of water where ever necessary without affecting any installation like water supply pipeline/telephone cable, electric cables etc. passing nearby area and scooping the earth inside the pipes and pit and depositing the surplus earth in a convenient place and leveling the site after completion of entire work as directed by TWAD Engineers. | | |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| | The rate includes the cost of driving pit, thrust bed/wall and receiving pit to the depth of om to 2m excluding the cost of MS pipes. | | |
| a | For 350mm dia MS encasing pipe for various thickness | RM | 9200.00 |
| b | For 400mm dia MS encasing pipe for various thickness | RM | 9450.00 |
| c | For 450mm dia MS encasing pipe for various thickness | RM | 9680.00 |
| d | For 500mm dia MS encasing pipe for various thickness | RM | 9860.00 |
| e | For 600mm dia MS encasing pipe for various thickness | RM | 10180.00 |
| f | For 700mm dia MS encasing pipe for various thickness | RM | 11000.00 |
| g | For 800mm dia MS encasing pipe for various thickness | RM | 11320.00 |
| h | For 900mm dia MS encasing pipe for various thickness | RM | 11620.00 |
| iii | Excavating of driving pit and receiving pit of size 3.00m (length) x 3.50m (breadth), depth upto 5m in all soil strata including shoring and strutting using 6mm tk MS Plate of size 3.50m x 3.50m usable for 10 operations and providing 16mm thickness MS plate of size 3.00m x 3.50m with 100mm x100mm x 12mm angles of 4m length for holding the MS plates for Thrust arrangements to receive the impacts during pushing operation of encasing pipe. Lowering the following size of MS encasing pipe by using Contractor's crane and machineries and jointing MS pipes by welding, across the National Highways/State Highways/ Railways/Canal crossing etc and driving the horizontal bore by pushing / jacking method (trenchless technology method) using contractor's machineries such as cranes, jacks, jacking materials, generator, welding machineries, | | |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| | compressor, jack hammer and other equipments etc. without interfering and causing any hindrance to the movement of traffic or any other vehicles, without any disturbances to the railway/road/canal formation etc. including bailing / pumping of water where ever necessary without affecting any installation like water supply pipeline/telephone cable, electric cables etc. passing nearby area and scooping the earth inside the pipes and pit and depositing the surplus earth in a convenient place and leveling the site after completion of entire work as directed by TWAD Engineers. The rate includes the cost of driving pit, thrust bed/wall and receiving pit to the depth of om to 2m excluding the cost of MS pipes. | | |
| a | For 1000mm dia MS encasing pipe for various thickness | RM | 12890.00 |
| b | For 1050mm dia MS encasing pipe for various thickness | RM | 13220.00 |
| c | For 1100mm dia MS encasing pipe for various thickness | RM | 14230.00 |
| d | For 1200mm dia MS encasing pipe for various thickness | RM | 15330.00 |
| e | For 1400mm dia MS encasing pipe for various thickness | RM | 16550.00 |
| f | For 1600mm dia MS encasing pipe for various thickness | RM | 17800.00 |
| g | For 1800mm dia MS encasing pipe for various thickness | RM | 19230.00 |
| h | For 2000mm dia MS encasing pipe for various thickness | RM | 20710.00 |
| i | For 2200mm dia MS encasing pipe for various thickness | RM | 23060.00 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| 46. | REPLACEMENT OF UNDER GROUND UTILITIES (HSC PIPES, DISTRIBUTION SYSTEM & PUMPING MAIN PIPES, Etc.) | | |
| i. | Replacement of Underground Utilities (GI Pipe) damaged during earthwork excavations for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting, removal of slushy soil and replacing the pipeline with sound pipe, including supply and delivery of GI pipes, coupler, Union, jointing materials and required specials, cutting, threading, conveying, laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers. | | |
| a. | 15mm Dia GI Pipe | 1RM | 342.89 |
| b. | 20mm Dia GI Pipe | 1RM | 375.56 |
| c. | 25mm Dia GI Pipe | 1RM | 462.22 |
| d. | 32mm Dia GI Pipe | 1RM | 550.56 |
| e. | 40mm Dia GI Pipe | 1RM | 628.89 |
| f. | 50mm Dia GI Pipe | 1RM | 797.22 |
| g. | 65mm Dia GI Pipe | 1RM | 1200.33 |
| h. | 80mm Dia GI Pipe | 1RM | 1464.00 |
| i. | 100mm Dia GI Pipe | 1RM | 2075.00 |
| j. | 125mm Dia GI Pipe | 1RM | 2802.00 |
| ii. | Replacement of Underground Utilities (PVC Pipe) damaged during earthwork excavation for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting, removal of slushy soil and replacing the pipeline with sound pipe, including supply and delivery of PVC pipes, couplers, jointing materials and required specials, cutting, conveying, laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers. | | |
| a. | 15mm Dia PVC Pipe (10 KSC) | 1RM | 168.30 |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| b. | 20mm Dia PVC Pipe (10 KSC) | 1RM | 175.33 |
| c. | 25mm Dia PVC Pipe (10 KSC) | 1RM | 190.05 |
| d. | 32mm Dia PVC Pipe (10 KSC) | 1RM | 208.08 |
| e. | 40mm Dia PVC Pipe (10 KSC) | 1RM | 239.98 |
| f. | 50mm Dia PVC Pipe (10KSC) | 1RM | 248.83 |
| g. | 63mm Dia PVC Pipe (10KSC) | 1RM | 296.00 |
| h. | 75mm Dia PVC Pipe (10KSC) | 1RM | 348.00 |
| i. | 90mm Dia PVC Pipe (10KSC) | 1RM | 428.83 |
| j. | 110mm Dia PVC Pipe (10KSC) | 1RM | 643.89 |
| k. | 140mm Dia PVC Pipe (10KSC) | 1RM | 958.89 |
| l. | 160mm Dia PVC Pipe (10KSC) | 1RM | 1197.56 |
| m. | 180mm Dia PVC Pipe (10KSC) | 1RM | 1485.85 |
| n. | 200mm Dia PVC Pipe (10KSC) | 1RM | 1924.51 |
| iii | Replacement of Underground Utilities (PVC Pipe) damaged during earthwork excavation for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting, removal of slushy soil and replacing the pipeline with sound pipe, including supply and delivery of PVC pipes, couplers, jointing materials and required specials, cutting, conveying, laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers. | | |
| a. | 50mm Dia PVC Pipe (6KSC) | 1RM | 222.33 |
| b. | 63mm Dia PVC Pipe (6KSC) | 1RM | 255.50 |
| c. | 75mm Dia PVC Pipe (6KSC) | 1RM | 288.00 |
| d. | 90mm Dia PVC Pipe (6KSC) | 1RM | 360.33 |
| e. | 110mm Dia PVC Pipe (6KSC) | 1RM | 507.89 |
| f. | 140mm Dia PVC Pipe (6KSC) | 1RM | 741.89 |
| g. | 160mm Dia PVC Pipe (6KSC) | 1RM | 909.56 |
| h. | 180mm Dia PVC Pipe (6KSC) | 1RM | 1109.35 |
| i. | 200mm Dia PVC Pipe (6KSC) | 1RM | 1486.51 |
| iv | Replacement of Underground Utilities (PVC Pipe) damaged during earthwork excavation for pipe laying works including cost of additional earthwork excavation in all soil strata, | | |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|---|------|-----------------------------|
| | including BT/CC road cutting, removal of slushy soil and replacing the pipeline with sound pipe, including supply and delivery of PVC pipes, couplers, jointing materials and required specials, cutting, conveying, laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers. | | |
| a. | 63mm Dia PVC Pipe (4KSC) | 1RM | 227.33 |
| b. | 75mm Dia PVC Pipe (4KSC) | 1RM | 254.50 |
| c. | 90mm Dia PVC Pipe (4KSC) | 1RM | 299.00 |
| d. | 110mm Dia PVC Pipe (4KSC) | 1RM | 429.22 |
| e. | 140mm Dia PVC Pipe (4KSC) | 1RM | 596.72 |
| f. | 160mm Dia PVC Pipe (4KSC) | 1RM | 704.56 |
| g. | 180mm Dia PVC Pipe (4KSC) | 1RM | 857.85 |
| h. | 200mm Dia PVC Pipe (4KSC) | 1RM | 1081.35 |
| v | Replacement of Underground Utilities (AC Pipe) damaged during earthwork excavation for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting, removal of slushy soil and replacing the pipeline with next available higher size PVC pipe, including supply and delivery of PVC pipes, couplers, jointing materials and required specials, cutting, conveying, laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers. | | |
| a. | 80mm Dia AC Pipe | 1RM | 632.91 |
| b. | 100mm Dia AC Pipe | 1RM | 747.24 |
| c. | 125mm Dia AC Pipe | 1RM | 1087.74 |
| vi | Replacement of Underground Utilities (AC Pipe) damaged during Earthwork excavation for pipe laying works including cost of additional earthwork excavation in all soil strata, including BT/CC road cutting, removal of slushy soil and replacing the pipeline with sound DI s/s pipe, including supply and delivery of DI | | |

| Schedule Item No. | Description | Unit | Rates for 2018-19 in Rupees |
|-------------------|--|------|-----------------------------|
| | s/s pipes, D/S collars, jointing materials and required specials, cutting, conveying , laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers. | | |
| a. | 150mm Dia AC Pipe | 1RM | 2432.18 |
| b. | 200mm Dia AC Pipe | 1RM | 3051.48 |
| c. | 250mm Dia AC Pipe | 1RM | 3747.62 |
| d. | 300mm Dia AC Pipe | 1RM | 4426.80 |
| e. | 350mm Dia AC Pipe | 1RM | 5234.07 |
| f. | 400mm Dia AC Pipe | 1RM | 6123.19 |
| vii | Replacement of Underground Utilities (HDPE Pipes) damaged during Earthwork excavations for pipe laying works including cost of additional earthwork excavation in all soils, including BT cutting, CC roads , removal of slushy soil and replacing the pipeline with sound pipe, including supply and delivery of HDPE pipes, couplers, jointing materials and required specials, cutting, threading, conveying , laying, jointing and cost of refilling for the additional earthwork etc complete and as directed by the TWAD board officers. | | |
| a. | 50mm Dia HDPE Pipe | 1RM | 283.83 |
| b. | 63mm Dia HDPE Pipe | 1RM | 336.67 |
| c. | 75mm Dia HDPE Pipe | 1RM | 395.00 |
| d. | 90mm Dia HDPE Pipe | 1RM | 470.17 |
| e. | 110mm Dia HDPE Pipe | 1RM | 639.06 |
| f. | 125mm Dia HDPE Pipe | 1RM | 744.89 |
| g. | 140mm Dia HDPE Pipe | 1RM | 859.22 |
| h. | 160mm Dia HDPE Pipe | 1RM | 1026.39 |
| i. | 200mm Dia HDPE Pipe | 1RM | 1446.78 |