

**EDFC FIELD UNIT-KOLKATA-CIVIL/EDFC
TENDER DOCUMENT**

Tender No: KKK-EN-QTR-DHN-DDU-PH-I

Closing Date/Time: 24/02/2022 15:00

CGM/DFCCIL/Kolkata acting for and on behalf of The President of India invites E-Tenders against Tender No **KKK-EN-QTR-DHN-DDU-PH-I** Closing Date/Time 24/02/2022 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

1. NIT HEADER

| | | | |
|------------------------------------|--|--|----------------------|
| Name of Work | Construction of Railway staff quarters with electrification in various stations from Paharpur to Rafiganj Road station of Dhanbad and Pt. Deendayal Upadhyay divisions of East Central Railway under Jurisdiction of General Manager/Co-Ordination/DFCCIL/Kolkata unit | | |
| Bidding type | Normal Tender | | |
| Tender Type | Open | Bidding System | Single Packet System |
| Tender Closing Date Time | 24/02/2022 15:00 | Date Time Of Uploading Tender | 03/02/2022 15:06 |
| Pre-Bid Conference Required | No | Pre-Bid Conference Date Time | Not Applicable |
| Advertised Value | 96168845.30 | Tendering Section | BIHAR |
| Bidding Style | Single Rate for Each Schedule | Bidding Unit | |
| Earnest Money (Rs.) | 0.00 | Validity of Offer (Days) | 60 |
| Tender Doc. Cost (Rs.) | 0.00 | Period of Completion | 9 Months |
| Contract Type | Works | Contract Category | Expenditure |
| Bidding Start Date | 10/02/2022 | Are Joint Venture (JV) firms allowed to bid | No |
| Ranking Order For Bids | Lowest to Highest | Expenditure Type | Capital (Works) |

2. SCHEDULE

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---|---|----------|----------|-----------|-------------|----------|-------------|---------------------|
| Schedule A -Construction of Three storied (Block of six units) Type -II Quarter in DHN and DDU | | | | | | | 72509851.30 | Above/ Below/Par |
| 011 | Please see Item Breakup for details. | | | | 39413081.00 | 12.46 | 44323950.89 | |
| | Description:- General work | | | | | | | |
| 012 | Please see Item Breakup for details. | | | | 4190664.34 | 15.59 | 4843988.91 | |
| | Description:- Wood Work | | | | | | | |
| 013 | Please see Item Breakup for details. | | | | 4977071.70 | 13.31 | 5639519.94 | |
| | Description:- Pipeline & Sanitary | | | | | | | |
| 014 | Please see Item Breakup for details. | | | | 663605.57 | 12.46 | 746290.82 | |
| | Description:- Roadwork | | | | | | | |
| 015 | Please see Item Breakup for details. | | | | 7804745.39 | 13.47 | 8856044.59 | |
| | Description:- Portland Pozzolana Cement. | | | | | | | |
| 016 | Please see Item Breakup for details. | | | | 7791512.26 | 3.96 | 8100056.15 | |
| | Description:- Reinforcement and Structural Steel | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|--|--|----------|----------|-----------|-------------|----------|------------|---------------------|
| Schedule B -Construction of Single storied (Block of two units) Type -II Quarter in DHN and DDU | | | | | | | 9306556.71 | Above/ Below/Par |
| 011 | Please see Item Breakup for details. | | | | 5142556.61 | 12.46 | 5783319.16 | |
| | Description:- General work | | | | | | | |
| 012 | Please see Item Breakup for details. | | | | 523833.04 | 15.59 | 605498.61 | |
| | Description:- Wood Work | | | | | | | |
| 013 | Please see Item Breakup for details. | | | | 622133.97 | 13.31 | 704940.00 | |
| | Description:- Pipeline & Sanitary | | | | | | | |
| 014 | Please see Item Breakup for details. | | | | 82950.69 | 12.46 | 93286.35 | |
| | Description:- Roadwork | | | | | | | |
| 015 | Please see Item Breakup for details. | | | | 975593.17 | 13.47 | 1107005.57 | |

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|-----|---|-----------|------|------------|
| | Description:- Portland Pozzolana Cement | | | |
| 016 | Please see Item Breakup for details. | 973939.03 | 3.96 | 1012507.02 |
| | Description:- Reinforcement and Structural Steel | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|--|---|----------|----------|-----------|-------------|----------|------------|---------------------|
| Schedule C-Construction of Single storied (Block of one unit) Type -II Quarter in DHN and DDU | | | | | | | 3103674.47 | Above/ Below/Par |
| 011 | Please see Item Breakup for details. | | | | 1714185.54 | 12.46 | 1927773.06 | |
| | Description:- General work | | | | | | | |
| 012 | Please see Item Breakup for details. | | | | 174611.02 | 15.59 | 201832.88 | |
| | Description:- Wood Work | | | | | | | |
| 013 | Please see Item Breakup for details. | | | | 208691.99 | 13.31 | 236468.89 | |
| | Description:- Pipeline & Sanitary | | | | | | | |
| 014 | Please see Item Breakup for details. | | | | 27650.23 | 12.46 | 31095.45 | |
| | Description:- Roadwork | | | | | | | |
| 015 | Please see Item Breakup for details. | | | | 325197.72 | 13.47 | 369001.85 | |
| | Description:- Portland Pozzolana Cement | | | | | | | |
| 016 | Please see Item Breakup for details. | | | | 324646.34 | 3.96 | 337502.34 | |
| | Description:- Reinforcement and Structural Steel | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---|---|----------|----------|-----------|-------------|----------|------------|---------------------|
| Schedule D-Construction of Single storied (Block of one unit) Type -III Quarter in DHN and DDU | | | | | | | 1844456.91 | Above/ Below/Par |
| 011 | Please see Item Breakup for details. | | | | 1004437.30 | 12.46 | 1129590.19 | |
| | Description:- General work | | | | | | | |
| 012 | Please see Item Breakup for details. | | | | 104398.70 | 15.59 | 120674.46 | |
| | Description:- Wood Work | | | | | | | |
| 013 | Please see Item Breakup for details. | | | | 108353.34 | 13.31 | 122775.17 | |
| | Description:- Pipeline & Sanitary | | | | | | | |
| 014 | Please see Item Breakup for details. | | | | 13825.11 | 12.46 | 15547.72 | |
| | Description:- Roadwork | | | | | | | |
| 015 | Please see Item Breakup for details. | | | | 205171.25 | 13.47 | 232807.82 | |
| | Description:- Portland Pozzolana Cement | | | | | | | |
| 016 | Please see Item Breakup for details. | | | | 214564.78 | 3.96 | 223061.55 | |
| | Description:- Reinforcement and Structural Steel | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|--|---|----------|----------|-----------|-------------|----------|------------|---------------------|
| Schedule E-Construction of Single storied (Block of one unit) Type -IV Quarter in DHN and DDU | | | | | | | 4436905.30 | Above/ Below/Par |
| 011 | Please see Item Breakup for details. | | | | 2451045.40 | 12.46 | 2756445.66 | |
| | Description:- General Work | | | | | | | |
| 012 | Please see Item Breakup for details. | | | | 236884.31 | 15.59 | 273814.57 | |
| | Description:- Wood Work | | | | | | | |
| 013 | Please see Item Breakup for details. | | | | 261191.72 | 13.31 | 295956.34 | |
| | Description:- Pipeline & Sanitary | | | | | | | |
| 014 | Please see Item Breakup for details. | | | | 27650.23 | 12.46 | 31095.45 | |
| | Description:- Roadwork | | | | | | | |
| 015 | Please see Item Breakup for details. | | | | 463341.95 | 13.47 | 525754.11 | |
| | Description:- Portland Pozzolana Cement | | | | | | | |
| 016 | Please see Item Breakup for details. | | | | 532742.56 | 3.96 | 553839.17 | |
| | Description:- Reinforcement and Structural Steel | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|-------|-----------|----------|----------|-----------|-------------|----------|--------|--------------|
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| | | | | | | | | |
|---|--------|------|-----|----------|-----------|--------|-----------|---------------------|
| Schedule F-Hand Pump | | | | | | | 150000.00 | Above/ Below/Par |
| 011 | 012010 | 3.00 | Set | 50000.00 | 150000.00 | AT Par | 150000.00 | |
| Description:- Hand Pump for Quarters | | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---|-----------|----------|----------|-----------|-------------|----------|----------|---------------------|
| Schedule H-Dismantling of existing structures | | | | | | | 90272.00 | Above/ Below/Par |
| 01 | 011013 | 112.00 | Hour | 806.00 | 90272.00 | AT Par | 90272.00 | |
| Description:- Demarcation of DFC ROW debris with M20 RCC (150mmx150mmx1225mm) pillars and Dismantling of structure and Disposal of debris in Andal-Gomoh of Phase-I section Hiring of JCB Machine (in good working condition) for leveling and dressing ground / dismantling structures including disposal of debris through dumpers etc. with contractor's labour, JCB machine, machine operator, fuel etc. The contractor shall arrange road permit for vehicle for all the States of operation, as per instructions of engineer in-charge and vehicle shall not be more than three years old. Payment shall be made for actual working hours at site. | | | | | | | | |

| S.No. | Item Code | Item Qty | Qty Unit | Unit Rate | Basic Value | Escl.(%) | Amount | Bidding Unit |
|---|-----------|----------|----------|-----------|-------------|----------|------------|---------------------|
| Schedule I-Electrical work in connection with "Construction of new quarters for shifting of utility at phase I | | | | | | | 4727128.61 | Above/ Below/Par |
| 1 | 011010 | 234.00 | Numbers | 938.28 | 219557.52 | AT Par | 219557.52 | |
| Description:- Supply, Fixing, connection & testing of LED light fitting 1X18W,T-8, 4' long, complete with inbuilt LED driver, Make - Crompton, Havells, Bajaj, Polycab or similar (LED Luminarie of the makes as specified above should be as per RDSO's specification for Energy efficient LED based luminaire unit for indoor lights to be used in Indian Railway offices and buildings. (Fixing of fitting to be done with proper clamping arrangement as per the site requirement and connection to be done with 1.5 sqmm single core copper conductor FRLS by tapping from sub main line including supply of ceiling rose and wires and PVC flexiable pipe) (The complete system of LED lights (including Driver etc) shall be guaranteed for satisfactorily performance and manufacturing defects for period of 60 months from the date of commissioning or 72 months from the date of supply, whichever is earlier. (Reference: Railway Board's letter no.2006/Elect(G)/150/5 dated 27.03.15). | | | | | | | | |
| 2 | 011020 | 471.00 | Numbers | 46.95 | 22113.45 | AT Par | 22113.45 | |
| Description:- Supply of smart LED lamp 9 watt base B-22 input voltage 240V AC(minus 30 percent and plus 20 percent) frequency 50HZ,power factor greater than 0.95,luminues flux(lm) greater than 100, CCT-6500K,Cri greater than 80,beam angle greater than 240 deg,life span greater than 25000 hrs. Operating temp 0 deg to C to (plus) 60 deg C, surge protection up to 2 KV,luminous maintenance (luminues flux decrease less than and equal to 10 percent) warranty 03 years. Lamp shall be meet all safety requirement as per IS:16102(part-1) and performance requirement as per IS:16102(part-1) (The complete system of LED lights (including Driver etc) shall be guaranteed for satisfactorily performance and manufacturing defects for period of 60 months from the date of commissioning or 72 months from the date of supply, whichever is earlier.(Reference: Railway Board's letter no.2006/Elect(G)/150/5 dated 27.03.15) | | | | | | | | |
| 3 | 011030 | 705.00 | Numbers | 184.86 | 130326.30 | AT Par | 130326.30 | |
| Description:- "Wiring of light point with PVC insulated, sheathed & stranded single core copper conductor(FRLS) 1.5mm2 (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper excavation and refilling the wall with proper plastering of the wall with supply & fixing of switch, ceiling rose/angular batten holder etc.(make Havells, anchor,Legrand, Slemens, L&T,or C&S) " | | | | | | | | |
| 4 | 011040 | 296.00 | Numbers | 250.90 | 74266.40 | AT Par | 74266.40 | |
| Description:- Wiring of C- Fan/Ex-Fan point with PVC insulated, sheathed & stranded single core copper conductor FRLS 1.5mm2 (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper excavation and refilling the wall with proper plastering of the wall with supply & fixing of switch, ceiling rose .(make-Havells, anchor,Legrand, Slemens, L&T or C&S) on surface of wall with ECC including supply and fixing of switch and ceiling rose. | | | | | | | | |
| 5 | 011050 | 118.00 | Numbers | 1367.80 | 161400.40 | AT Par | 161400.40 | |
| Description:- Supply,& fixing of Metal body Exhaust Fans (non-capacitor type) No of poles -4 & sweep size 300 mm (Make-Usha,Havells/crompton, Bajaj or similar) | | | | | | | | |
| 6 | 011060 | 178.00 | Numbers | 1305.30 | 232343.40 | AT Par | 232343.40 | |
| Description:- "Electric Ceiling Fan Capacitor Type Sweep Size (mm): 1200,Type of Regulator fitted in ceiling fan: Electronic,ISI Marking: Yes,BEE star Rating: 5Star " | | | | | | | | |
| 7 | 011070 | 292.00 | Numbers | 168.11 | 49088.12 | AT Par | 49088.12 | |

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|----|--|--|---------|----------|-----------|--------|-----------|
| | | Description:- Wiring of plug point with PVC insulated, sheathed & stranded single core copper conductor FRLS 1.5mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper excavation and refilling the wall with proper plastering of the wall with supply & fixing of 5Amp plug & socket switch (make-Havells, Anchor, Legrand, L&T, Seimens or C&S) | | | | | |
| 8 | 011080 | 468.00 | Numbers | 247.10 | 115642.80 | AT Par | 115642.80 |
| | Description:- Wiring of power plug point 15 Amp with PVC insulated, sheathed and stranded single core, copper conductor FRLS 4mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper excavation and refilling the wall with supply & fixing of 15Amp Power Plug & Socket flush type, 5 in 1 including controlling switch.(make-Havells, Anchor, Legrand, L&T, Seimens or C&S) | | | | | | |
| 9 | 011090 | 176.00 | Numbers | 760.91 | 133920.16 | AT Par | 133920.16 |
| | Description:- Wiring of metallic power plug with PVC insulated sheathed & stranded single core copper conductor 4 mm ² (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper excavation and refilling the wall with proper plastering of the wall with supply & fixing of 20 Amp metallic power plug & socked and 20 Amp MCB-DP. (make-Havells, Anchor, Legrand, L&T, Seimens or C&S) | | | | | | |
| 10 | 011100 | 3540.00 | Metre | 65.96 | 233498.40 | AT Par | 233498.40 |
| | Description:- Wiring of sub-Main Line with FRLS copper wire single core size 6 mm ² multistrand with PVC pipe concealed with proper excavation and refilling the wall with proper plastering. (Wire Make-Havells,anchor, Finolex, Polycab Mescab) | | | | | | |
| 11 | 011110 | 2350.00 | Metre | 90.67 | 213074.50 | AT Par | 213074.50 |
| | Description:- Wiring of Main Line with FRLS copper wire single core size 10mm ² multistand with PVC pipe in concealed with proper excavation and refilling the wall with proper plastering. (Wire Make-Havells,anchor, Finolex, Polycab, Mescab) | | | | | | |
| 12 | 011120 | 58.00 | Numbers | 3824.33 | 221811.14 | AT Par | 221811.14 |
| | Description:- "Fixing, connection, testing & Supply of MCB Distribution Board 8-way (2-incomer ,6-outgoing),double door,IP-43-protection conforms to IS:8623-1&3, MCB 32A, DP, 10 KA, B-Curve, conforms to IS:60898 - 1 No as incoming, MCB 10A, DP, 10 KA, C-Curve, conforms to IS:60898 3 Nos as outgoing. Make - L&T, Havells, Legrand (Fixing of Distribution Board to be done with proper clamping arrangement or in concealed in the wall as per the site requirement and connection to be done with suitable conductor including supply of PVC flexiable pipe) " | | | | | | |
| 13 | 011130 | 13.00 | Numbers | 9000.00 | 117000.00 | AT Par | 117000.00 |
| | Description:- "Fixing, connection, testing & Supply of MCB Distribution Board 4-way 8+12 ,double door,IP-43-protection, with supply of MCB 63A, TPN, 10 KA, B-Curve, conforms to IS:60898 -02 Nos as incoming & MCB 20A, DP, 10 KA, B-Curve, conforms to IS:60898- 06 Nos as outgoing. Make - L&T, Havells, Legrand, Havells, C & S (Fixing of Distribution Board to be done as per the site requirement (normally concealed) and connection to be done with suitable conductor including supply of PVC flexiable pipe) " | | | | | | |
| 14 | 011140 | 58.00 | Numbers | 254.10 | 14737.80 | AT Par | 14737.80 |
| | Description:- Wiring of call bell point with PVC insulated sheathed and standard single core copper conductor 1.5mm ² (FRLS) (Wire Make-Havells, anchor, Finolex, Polycab, Mescab) with ECC in PVC pipe in concealed with proper plastering of the wall with supply & fixing of call bell and push switch etc.(make-Havells, Anchor, L&T, greatwhite, ABB, Seimens or C&S) | | | | | | |
| 15 | 011150 | 58.00 | Numbers | 536.93 | 31141.94 | AT Par | 31141.94 |
| | Description:- Supply, fixing, testing and commissioning of Electronics type single phase kWh Meter with LCD display, 5A- 30A, 230V | | | | | | |
| 16 | 011160 | 58.00 | Numbers | 360.00 | 20880.00 | AT Par | 20880.00 |
| | Description:- Fixing ,connection,testing of Electronic Energy meter along with supply and fixing of iron board size 8" X 12" and sunmica top sheet in concealed with excavation of the wall and refilling the wall with proper plastering with 01 nos porcelian kit-kat fuse unit 32A.(Meter will be supplied by railway) | | | | | | |
| 17 | 011170 | 14.00 | Numbers | 1081.52 | 15141.28 | AT Par | 15141.28 |
| | Description:- Supply, fixing and drawing of service connection by GI pipe 14' long 2" dia with bend to shape including supply and fixing of 2-pin MS angle bracket, size 50x50x6mm 3' long with shackle insulator and fixing with suitable clamp nuts, bolts (Make G.I-Tata, Jindal, Bansal) | | | | | | |
| 18 | 011180 | 14.00 | Numbers | 9605.00 | 134470.00 | AT Par | 134470.00 |
| | Description:- Supply & fixing of Busbar Chamber 4-way 100A (Make Havells/C&S/L&T) (Fixing with proper excavation and refilling the wall with proper re-plastering of the wall) | | | | | | |
| 19 | 011190 | 14.00 | Set | 12556.64 | 175792.96 | AT Par | 175792.96 |
| | Description:- Testing, commissioning, installation and supply of MCCB,100A, 35KA, four pole, with thermal magnetic release with suitable MCCB enclosure. Fixing to be done as per the site requirement under supervision of site incharge including connection with crimping of cable ends with aluminium lugs of required sizes (Make - Indo asian, C&S, Havells, L&T | | | | | | |
| | 011200 | 3500.00 | Metre | 83.00 | 290500.00 | AT Par | 290500.00 |

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|----|--|---------|-----------|----------|-----------|--------|-----------|
| 20 | Description:- ISI marked four core circular armoured cross linked polyethylene (XLPE) LT insulated cable. PVC outer sheathed armoured with galvanised round steel wire or steel strip and with aluminium conductor suitable for rated voltage 1100 volts, grade conforming to IS:7098 [part-1]-1988 with adm. no. 1,2 and 3 [reaffirmed 2005] size 4*25 sq. mm. The firm will have to submit type test report as per IS from NABL accredited lab alongwith the tender. Type test report should not be more than 10 years old on the date of bid opening. | | | | | | |
| 21 | 011220 | 2000.00 | Metre | 217.35 | 434700.00 | AT Par | 434700.00 |
| 21 | Description:- ISI marked four core circular armoured cross linked polyethylene (XLPE) LT insulated cable. PVC outer sheathed armoured with galvanised round steel wire or steel strip and with aluminium conductor suitable for rated voltage 1100 volts, grade conforming to IS:7098 [part-1]-1988 with adm. no. 1,2 and 3 [reaffirmed 2005] size 4*70 sq. mm. The firm will have to submit type test report as per IS from NABL accredited lab alongwith the tender. Type test report should not be more than 10 years old on the date of bid opening. | | | | | | |
| 24 | 011240 | 50.00 | Metre | 1684.00 | 84200.00 | AT Par | 84200.00 |
| 24 | Description:- Cable crossing across railway track/pucca road by boring hole at depth of 02 mtr by using 01(one) nos 100mm dia GI pipe(medium grade) with accessories.GI pipe with accessories will be supplied by the contractor. | | | | | | |
| 25 | 011250 | 5000.00 | Metre | 71.33 | 356650.00 | AT Par | 356650.00 |
| 25 | Description:- Trenching, laying and back filling of XLPE cable | | | | | | |
| 26 | 011260 | 30.00 | Numbers | 14534.33 | 436029.90 | AT Par | 436029.90 |
| 26 | Description:- Supply of octagonal pole (dip galvanised in single dip average 70 micron), 6m long, top dia 70mm, bottom dia 135mm sheet thickness 3mm in single section with base plate (220x220x12mm(LxBxT) with 700mm long single arm bracket and 4 nos.16mm dia x 600mm long (100mm thread projection) foundation bolts, complete with smart pack junction box with 6A MCB & stud terminals (for mounting inside base plate) and internal wiring for terminal to fitting with 2x2.5 sqmm cable of reputed make, Make-Bajaj, Bansal, Jindal, Transrail lighting LTD, Gammon Group. | | | | | | |
| 27 | 011270 | 30.00 | Numbers | 2608.89 | 78266.70 | AT Par | 78266.70 |
| 27 | Description:- Erection and casting of foundation for octagonal/tubular pole with earth excavation, with cement concrete (1:3:6) and muffing of base foundation, as per manufacturers drawing and dimension as required under the supervision of site incharge. | | | | | | |
| 28 | 011280 | 30.00 | Numbers | 6200.00 | 186000.00 | AT Par | 186000.00 |
| 28 | Description:- Supply of LED Street Light Fitting 100W with pressure die cast aluminum housing, Heat resistance toughened glass IP66 protection,Better optics for uniform distribution. (Make- Havells, Crompton, Bajaj) | | | | | | |
| 29 | 011290 | 30.00 | Numbers | 393.33 | 11799.90 | AT Par | 11799.90 |
| 29 | Description:- Fixing of Street Light, with PVC insulated S/core stranded alum. Conductor 2.5mm ² and connection & supply of GI pipe of 30mm 4ft long bend (to suit the street light fitting) as per site requirement and fixing the same with supply of suitable clamp, nut, bolt and washer. | | | | | | |
| 34 | 011340 | 8.00 | Numbers | 13061.10 | 104488.80 | AT Par | 104488.80 |
| 34 | Description:- Supply of 2nd hand MS Rail pole 36' long. | | | | | | |
| 35 | 011350 | 8.00 | Numbers | 3066.67 | 24533.36 | AT Par | 24533.36 |
| 35 | Description:- Transportation of 2nd hand rail pole 36 feet long ,from the point of delivery to site of erection and erection of the same with cement concrete foundation ratio 1:3:6 | | | | | | |
| 36 | 011360 | 8.00 | Numbers | 252.16 | 2017.28 | AT Par | 2017.28 |
| 36 | Description:- Scrapping, cleaning & painting of rail pole with 2-coats of Red Oxide primer for entire pole then 2-coats of alum. Paint from top up to 5ft above the ground level and 2-coats of Green/Black paint up to 5ft from the ground level | | | | | | |
| 37 | 011370 | 1.00 | Kilometre | 28275.48 | 28275.48 | AT Par | 28275.48 |
| 37 | Description:- "Aluminium Conductor galvanised steel wire reinforced CONDUCTOR SIZE IN SQ MM: 50,AL. WIRE SIZE IN MM: 6/3.35,STEEL WIRE " | | | | | | |
| 38 | 011380 | 0.50 | Kilometre | 71080.84 | 35540.42 | AT Par | 35540.42 |
| 38 | Description:- Aluminium Conductor galvanised steel wire reinforced CONDUCTOR (ACSR) SIZE IN SQ MM: 100, confirming to IS 398 Part 4 | | | | | | |
| 39 | 011390 | 1.00 | Kilometre | 2470.02 | 2470.02 | AT Par | 2470.02 |
| 39 | Description:- Only stringing/Drawing and Tensioning of ACSR conductor of size , and binding of conductor with insulators . | | | | | | |
| 40 | 011400 | 100.00 | Kg | 75.65 | 7565.00 | AT Par | 7565.00 |
| 40 | Description:- Erection of Guard wire , including supply of GI wire having 02 nos, bearer wires of 4/6 SWG (GI) and provision of lacings with 8-SWG(GI), 1st lacing from the support structure being at 1- Mtr and subsequent lacings at 4- meter apart. | | | | | | |
| 41 | 011410 | 6.00 | Set | 663.88 | 3983.28 | AT Par | 3983.28 |

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|----|--|--------|---------|---------|-----------|--------|-----------|
| | Description:- Supply & erection of stay assembly 6 ft long 3/4" dia including anchor plate (Size 15"x15"x3/16" guy wire rope with cement concrete foundation of ratio 1:3:6 including fixing of the complete set | | | | | | |
| 42 | 011420 | 600.00 | Kg | 100.33 | 60198.00 | AT Par | 60198.00 |
| | Description:- Supply,Fabrication and fixing on the pole of MS Channel /angle bracket,top clamp,bracing,Guard bracket etc as per Sr.DEE(G)Drg. No. EL/SK/08-80 and Drg No. EL/T/3-76 and as per requirements including bolts,nuts and washers. | | | | | | |
| 52 | 011520 | 58.00 | Numbers | 4106.00 | 238148.00 | AT Par | 238148.00 |
| | Description:- Provision of Earthing as per IS 3043 (1987) or latest | | | | | | |
| 57 | 011570 | 30.00 | Numbers | 589.67 | 17690.10 | AT Par | 17690.10 |
| | Description:- Supply of GI pipe 4" dia, Medium gauge 'B' class including fixing with suitable clampnuts, bolts etc as per requirement | | | | | | |
| 59 | 011590 | 20.00 | Numbers | 393.29 | 7865.80 | AT Par | 7865.80 |
| | Description:- Supply and fixing of LT Cross arm bracket, made of MS angle of size 50mmx 50mmx 6mm, 4ft 6inches long complete with 04 nos. LT pin/shackle insulators with suitable clamps, nuts, bolts and washers. | | | | | | |

3. ITEM BREAKUP

| | | | | | | |
|------------------|---|--|-------------|------------|-------------|---------------|
| Schedule | Schedule A-Construction of Three storied (Block of six units) Type -II Quarter in DHN and DDU | | | | | |
| Item- 011 | General work | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level and paid for in layers of 1.5m each, including incidental work, as per specifications-in | | | | |
| 1 | 011011 | All kinds of soils | cum | 13575.60 | 93.54 | 1269861.62 |
| 2 | 011040 | Extra for manual compaction of earthwork, where permitted, with rammers | cum | 11426.40 | 7.40 | 84555.36 |
| 3 | 012010 | Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly | cum | 2937.60 | 10.20 | 29963.52 |
| 4 | 014010 | Dressing Surface (average excavation or filling upto 15 cm) including removing vegetation in all kind of soil. Payment against this item is to be made only if it is not included in earth work item | 10 Sqm | 2268.00 | 62.30 | 14129.64 |
| 5 | 021070 | Loading/Unloading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones , rubble stones, laterite, coal, surkhi, dry mortar, sand , moorum, earth, manure or sludge, ashes, lime etc., including lead up to 50m and stacking into/from trucks, trailers or wagons | cum | 22852.80 | 38.66 | 883489.25 |
| 6 | 021090 | Leading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones, rubble stones, laterite, coal, surkhi, dry mortar, sand, moorum, earth, manure or sludge, ashes, lime, debris, muck, malba, etc. for lead upto 25 km. Note : Lead under this item is payable when the same exceeds 500m. | cum | 22852.80 | 88.58 | 2024301.02 |
| | | Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level : | | | | |
| 7 | 031011 | 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size) | cum | 1382.40 | 2813.60 | 3889520.64 |

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|----|--------|--|-----|---------|---------|-------------|
| | | Providing and laying cement concrete, up to plinth in retaining walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc, excluding the cost of cement and of shuttering, centering. | | | | |
| 8 | 031024 | 1:1.5:3 (1cement : 1.5 sand : 3 graded stone aggregate 20mm nominal size) | cum | 37.80 | 2911.03 | 110036.93 |
| | | Providing and laying in position M 20 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge | | | | |
| 9 | 041011 | All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc. | cum | 324.00 | 3341.60 | 1082678.40 |
| 10 | 041012 | All work in buildings above plinth level upto floor two level. | cum | 572.40 | 3619.33 | 2071704.49 |
| | | Centering and shuttering including strutting, propping etc. and removal of form for : | | | | |
| 11 | 042011 | Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc. | Sqm | 1663.20 | 138.30 | 230020.56 |
| 12 | 042013 | Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform | Sqm | 3888.00 | 230.28 | 895328.64 |
| 13 | 042014 | Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers | Sqm | 1134.00 | 201.54 | 228546.36 |
| 14 | 042015 | Columns, pillars, , posts and struts | Sqm | 1285.20 | 282.30 | 362811.96 |
| | | Providing, hoisting and fixing in position upto floor two level M20 Grade precast RCC work including setting in cement mortar 1:3 (1 cement : 3 coarse sand) and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete including cost of centering, shuttering, finishing, Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, excluding cost of cement and steel reinforcement, as per approved plan & direction of Engineer incharge. | | | | |
| 15 | 043015 | In slabs for drain covers, manhole covers, flue tops etc. | cum | 81.00 | 3735.88 | 302606.28 |
| 16 | 046010 | Extra for RCC work in superstructure above floor two level for every floor or part thereof. | cum | 190.80 | 295.30 | 56343.24 |
| | | Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in : | | | | |
| 17 | 051017 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 118.80 | 2880.95 | 342256.86 |
| 18 | 051018 | Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 4494.96 | 2880.95 | 12949755.01 |
| 19 | 051040 | Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level : | cum | 561.60 | 140.42 | 78859.87 |
| 20 | 051050 | Extra for brick work in superstructure beyond second floor level for every 3m or part thereof : | cum | 280.80 | 268.14 | 75293.71 |
| | | Half brick masonry with bricks of class designation 7.5 in foundations and plinth in : | | | | |
| 21 | 051181 | Cement mortar 1:3 (1 cement : 3 coarse sand) | Sqm | 2462.40 | 340.26 | 837856.22 |
| 22 | 051190 | Extra for half Brick masonry in superstructure above plinth level upto floor two level | Sqm | 1641.60 | 38.70 | 63529.92 |
| 23 | 051200 | Extra for half brick masonry in superstructure above floor two level for every floor or part thereof. | Sqm | 820.80 | 14.30 | 11737.44 |
| | | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete | | | | |

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|----|--------|---|-----|----------|---------|------------|
| 24 | 074232 | Fixed to opening/ wooden frames with rawl plugs screws etc. | Kg | 8370.00 | 84.72 | 709106.40 |
| | | Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required | | | | |
| 25 | 081412 | In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works | Kg | 10108.80 | 87.45 | 884014.56 |
| | | Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary) of average thickness 25 mm including ramming sub grade : | | | | |
| 26 | 091032 | Flat brick | Sqm | 6760.80 | 237.25 | 1603999.80 |
| 27 | 091090 | Laying cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) of thickness 40 to 100mm as under layer of flooring | cum | 352.08 | 3198.75 | 1126215.90 |
| | | Providing and fixing 1st quality ceramic tiles conforming to Group B-III (Ceramic Wall Tiles) of IS:15622 of manufacturers approved by railway in all colours, shades, and design as approved by the Engineer-in-Charge in skirting, risers of steps and dado over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete | | | | |
| 28 | 095012 | 200x300 mm | Sqm | 1771.20 | 615.26 | 1089748.51 |
| | | Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by railway in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete | | | | |
| 29 | 095026 | Of Group B-I-a of IS : 15622 (Vitrified tiles) of size above 400x400mm upto 600x600 mm | Sqm | 1836.00 | 1016.16 | 1865669.76 |
| | | Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias, dados and skirtings and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing. etc. complete at all levels | | | | |
| 30 | 099035 | Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger | Sqm | 32.40 | 3615.48 | 117141.55 |
| | | 12 mm cement plaster of mix - | | | | |
| 31 | 111012 | 1:6 (1cement: 6fine sand) | Sqm | 7257.60 | 62.50 | 453600.00 |
| | | 15 mm cement plaster on the rough side of single or half brick wall of mix - | | | | |
| 32 | 111022 | 1:6 (1cement: 6 fine sand) | Sqm | 7408.80 | 72.02 | 533581.78 |
| | | 12 mm cement plaster finished with a floating coat of neat cement of mix - | | | | |
| 33 | 111071 | 1:3 (1cement: 3fine sand) | Sqm | 1965.60 | 74.66 | 146751.70 |
| | | Cement plaster to ceiling of mix - | | | | |
| 34 | 111151 | 6 mm thick 1:3 (1cement: 3 fine sand) | Sqm | 1987.20 | 53.56 | 106434.43 |
| 35 | 112040 | Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete | Sqm | 8866.80 | 93.02 | 824789.74 |
| | | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade | | | | |
| 36 | 115042 | New work (two or more coats of distemper) over and including priming coat with distemper primer | Sqm | 8866.80 | 64.12 | 568539.22 |

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|------------------|------------------|---|-------------|------------|--------------|--------------------|
| 37 | 115080 | Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications with two or more coats applied @ 1.25ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr/10sqm | Sqm | 8229.60 | 76.35 | 628329.96 |
| 38 | 116110 | Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3m or part thereof | Sqm | 1440.00 | 19.76 | 28454.40 |
| | | Extra for plastering done on moulding cornices or architraves including neat finish to line and level | | | | |
| 39 | 116131 | In one coat. | Sqm | 720.00 | 150.31 | 108223.20 |
| | | Applying Priming Coat : | | | | |
| 40 | 121011 | With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood) | Sqm | 2008.80 | 23.53 | 47267.06 |
| 41 | 121150 | Painting two coats (excluding priming coat) with chocolate, red, grey or buff ready mixed paint of approved quality, on steel or wood work | Sqm | 2963.52 | 46.67 | 138307.48 |
| 42 | 252140 | Local sand / pit sand/yamuna sand for filling purposes | cum | 885.60 | 607.18 | 537718.61 |
| | | | | | Total | 39413081.00 |
| Item- 012 | Wood Work | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Providing wood work in frames of doors, windows, clerestory windows and other frames and trusses, wrought, framed and fixed in position : | | | | |
| 1 | 071012 | Sal wood | cudm | 22960.80 | 78.37 | 1799437.90 |
| | | Providing and fixing panelled/glazed or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S. butt hinges with necessary screws excluding, panelling/glazing which will be paid for separately | | | | |
| 2 | 072015 | Kail, venteak, pillamarudhu or locally available comparable species of good country wood (to be listed by respective railway). 35mm thick | Sqm | 326.16 | 1361.13 | 443946.16 |
| | | Providing and fixing to IS: 2202 Part-1 marked flush door shutter decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters | | | | |
| 3 | 072142 | 30mm thick including ISI marked stainless steel butt hinges with necessary screws | Sqm | 334.80 | 2121.41 | 710248.07 |
| | | Providing and fixing 25mm thick cup board shutters , with veneered particle board conforming to IS 3097 - Grade1 of approved make including second class teak wood lipping 25x12mm thick with necessary screws and nickel plated bright finished MS piano hinges complete | | | | |
| 4 | 073042 | With commercial veneering on both sides | Sqm | 140.40 | 2029.68 | 284967.07 |
| | | Providing and fixing ISI: 12817 marked stainless steel butt hinges with stainless steel screws etc. complete of size | | | | |
| 5 | 076013 | 75x47x1.80mm | Each | 2688.00 | 30.28 | 81392.64 |
| 6 | 076014 | 50x37x1.50mm | Each | 1296.00 | 19.54 | 25323.84 |
| | | Providing and fixing ISI marked aluminium butt hinges ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 7 | 078013 | 100x75x4mm | Each | 288.00 | 86.56 | 24929.28 |
| | | Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete | | | | |

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|--------------------------------------|----------------|--|-------------|------------|--------------|-------------------|
| 8 | 078021 | 300x16mm | Each | 528.00 | 264.70 | 139761.60 |
| | | Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 9 | 078033 | 200x10mm | Each | 240.00 | 78.50 | 18840.00 |
| 10 | 078034 | 150x10mm | Each | 1152.00 | 68.74 | 79188.48 |
| | | Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 11 | 078061 | 125mm | Each | 480.00 | 53.90 | 25872.00 |
| 12 | 078062 | 100mm | Each | 1248.00 | 58.92 | 73532.16 |
| 13 | 078130 | Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitered at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge | Metre | 410.40 | 417.09 | 171173.74 |
| 14 | 078140 | Providing and fixing to existing door frames 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers. M.S. frame covered with 5mm thick heat moulded PVC Foam sheet 'C channel as per drawing given in IR Standard Specifications complete in all respect | Sqm | 120.96 | 2579.79 | 312051.40 |
| | | | | | Total | 4190664.34 |
| Item- 013 Pipeline & Sanitary | | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; SDR 7.4 U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including fixing the pipe with clamps at 1.00m spacing in. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the walls etc. | | | | |
| 1 | 131052 | PN-16 Pipe, 20mm OD | Metre | 604.80 | 169.04 | 102235.39 |
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work | | | | |
| 2 | 131064 | PN-16 Pipe, 32mm OD (SDR-7.4) | Metre | 820.80 | 236.77 | 194340.82 |
| 3 | 131068 | PN-16 Pipe, 75mm OD (SDR-7.4) | Metre | 518.40 | 1095.56 | 567938.30 |

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|----|--------|--|-------|----------|---------|------------|
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) designated as PN-10 pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work (higher dia) | | | | |
| 4 | 131071 | PN-10 Pipe, 110mm OD (SDR-11) | Metre | 129.60 | 2169.13 | 281119.25 |
| 5 | 131072 | PN-10 Pipe, 160mm OD (SDR-11) | Metre | 360.00 | 4375.91 | 1575327.60 |
| | | Providing and fixing medium grade G.I. pipes complete with G.I. fittings including trenching and refilling etc. External Work | | | | |
| 6 | 131158 | 80 mm dia. nominal bore | Metre | 144.00 | 760.35 | 109490.40 |
| | | Providing and fixing PP-R Gate Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 7 | 131182 | 32 mm Gate Valve | Each | 96.00 | 638.95 | 61339.20 |
| | | Providing and fixing PP-R Brass Ball Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 8 | 131193 | 32mm Ball Valve | Each | 48.00 | 1340.62 | 64349.76 |
| | | Providing and fixing PP-R Male adopter conforming to PN-25 rating with marking on each fitting, fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 9 | 131201 | 20mm adopter for PPR-GI connection | Each | 192.00 | 231.96 | 44536.32 |
| 10 | 131203 | 32mm adopter for PPR-GI connection | Each | 144.00 | 403.92 | 58164.48 |
| 11 | 131207 | 75mm adopter for PPR-GI connection | Each | 96.00 | 1669.85 | 160305.60 |
| | | Providing and fixing gun metal non- return valve of 80 mm nominal bore approved quality (screwed end) | | | | |
| 12 | 132101 | Horizontal | Each | 6.00 | 3962.22 | 23773.32 |
| 13 | 132180 | Providing and fixing C.P. brass bib cock, 15mm nominal bore, of approved quality conforming to IS:8931 | Each | 192.00 | 409.49 | 78622.08 |
| 14 | 132210 | Providing and fixing C.P. brass stop cock, 15 mm nominal bore, (concealed) of standard design and of approved make conforming to IS:8931 | Each | 192.00 | 384.65 | 73852.80 |
| | | Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work) | | | | |
| 15 | 136131 | 15mm nominal bore | Each | 144.00 | 115.38 | 16614.72 |
| 16 | 136133 | 25mm nominal bore | Each | 144.00 | 167.57 | 24130.08 |
| 17 | 136150 | Providing and placing on terrace/staging (at all heights) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank | Litre | 43200.00 | 6.57 | 283824.00 |
| | | Supplying and fixing on water tanks etc. slotted WATER indicator board with M.S. Pulley ball bearing type phosphorus bronze twisted wire, wood float etc. complete in all respect and in metric units. The rate includes fixing at all heights | | | | |
| 18 | 137062 | More than 1.25 m long | Each | 1.20 | 1573.25 | 1887.90 |

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|----|--------|--|-------|--------|---------|-----------|
| | | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap, 10litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required | | | | |
| 19 | 151011 | White Vitreous China Orissa pattern W.C. pan of size 580x440-mm with integral type foot rests | Each | 48.00 | 3253.40 | 156163.20 |
| | | Providing and fixing wash basin with C.I./ M.S. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required | | | | |
| 20 | 151074 | white vitreous china flat back wash basin size 550x400mm with single 15mm C.P. brass pillar tap | Each | 96.00 | 1767.28 | 169658.88 |
| | | Providing and fixing Stainless Steel AISI- 304 (18/8) kitchen sink with drain board as per IS: 13983 with C.I. brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required | | | | |
| 21 | 152021 | 510x1040 mm bowl depth 250mm | Each | 48.00 | 4128.44 | 198165.12 |
| | | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete | | | | |
| 22 | 152083 | Semi rigid pipe40mm dia. | Each | 144.00 | 96.40 | 13881.60 |
| | | Providing and fixing mirror of 5.5 mm thickness of float Glass (of approved Quality) required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing | | | | |
| 23 | 152122 | Rectangular shape 453x357mm (outer dimension) | Each | 96.00 | 826.95 | 79387.20 |
| | | Providing and fixing soil, waste and vent pipes | | | | |
| 24 | 153011 | 100mm dia. Sand cast iron S&S pipe as per IS:1729 | Metre | 96.00 | 640.09 | 61448.64 |
| | | Providing and fixing single equal plain junction of required degree with access door, insertion rubber wash 3mm thick, bolts and nuts complete | | | | |
| 25 | 153091 | 100x100x100mm sand cast iron S&S as per IS-1729 | Each | 48.00 | 479.76 | 23028.48 |
| | | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with C.P. brass screws with concealed fitting arrangement of approved quality colour and make | | | | |
| 26 | 153322 | 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms | Each | 96.00 | 524.29 | 50331.84 |
| 27 | 153330 | Providing and fixing PTMT shelf 440mm long, 124mm width and 36mm height of approved quality, colour and make weighing not less than 300gms | Each | 96.00 | 436.09 | 41864.64 |
| 28 | 153380 | Providing and fixing C P brass Soap dish holder having length of 138 mm, 102 mm wide, 75 mm high with concealed fittings arrangements weighing approx. 110 gms | Each | 144.00 | 189.72 | 27319.68 |
| 29 | 153390 | Providing and fixing Shower rose (C.P.) brass with swivel joint having aprox. wt. 270 gm | Each | 48.00 | 349.18 | 16760.64 |
| | | Providing and fixing PVC connector 15 mm size with non corrosive PTMT couplings in both ends | | | | |
| 30 | 153493 | 15mm dia 600mm long | Each | 144.00 | 96.35 | 13874.40 |
| 31 | 154010 | Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete | Metre | 288.00 | 264.69 | 76230.72 |

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|----|--------|--|------|-------|--------------|-------------------|
| 32 | 154070 | Providing and fixing 110 mm x 110 mm x 5mm PVC plain branch (single unequal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and cost of spun yarn and sand etc., complete | Each | 48.00 | 135.93 | 6524.64 |
| 33 | 154100 | Providing and fixing 110 mm PVC Plain bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete | Each | 96.00 | 94.71 | 9092.16 |
| 34 | 171420 | Supplying, fitting, fixing & installing including boring of 40 mm dia hand tube well assembly India Mark II having total depth of 50 metres with the following components as per IS:9301 : i) Hand pump (single acting) India mark - II galvanised as per IS : 9301 - 90. ii) Brass strainer mesh type made of long slotted medium B class G.I. pipes with 80-mesh brass wire net wrapping around the perforated pipe and jacketed by 26 / 28 SWG brass perforated sheet. 40 mm dia (2 lengths of each 1.83 m connected with G.I. socket). iii) C.I. cylinder with G.M. parts India mark - II 65 mm dia x 0.45 m long as per IS: 9301 - 90. iv) G.I. casing pipe 100 mm dia medium quality ISI marked 18 m long. v) G.I. pipe 40 mm dia medium quality ISI marked 28.35 m long. vi) 32 mm dia G.I. pipe (riser) medium quality ISI marked 17 m long. vii) 12 mm dia bright bar electro galvanised connecting rod, 3.0 m long each as per IS : 9301 of length as required. viii) all accessories as per IS: 9301 -90 such as G.I. reducing socket 100 mm x 40 mm, C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. The work also includes priming, development and testing of the yield (which should be sufficient enough) for seven days with all labour, material, tools and plants complete. ix) 40 mm dia G.I. ISI marked medium quality hanging pipe to the extent of 17 m. x) all accessories such as C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. as required . The work also includes priming & development and testing of the yield (which should be sufficient enough) for seven days with cost of labour and material, all tools and plants complete in all respect | Each | 6.00 | 51914.64 | 311487.84 |
| | | | | | Total | 4977071.70 |

| | | | | | | |
|---------------------------|----------------|--|-------------|------------|-------------|---------------|
| Item- 014 Roadwork | | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 231010 | Preparation of subgrade by excavating earth upto 22.5cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonne capacity including making good the undulations etc. and disposal of surplus earth with lead upto 50 metres | Sqm | 547.20 | 38.41 | 21017.95 |
| 2 | 231020 | Consolidation of subgrade with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and re-rolling the subgrade | Sqm | 547.20 | 1.50 | 820.80 |
| | | Providing and laying each layer of flat brick soling hand packed and joints filled with ordinary sand | | | | |
| 3 | 231031 | With well burnt bricks. Class 7.5 designation | Sqm | 547.20 | 182.54 | 99885.89 |
| | | Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete. | | | | |
| 4 | 231041 | Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size | cum | 158.40 | 1925.10 | 304935.84 |

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|------------------|--|--|-------------|------------|--------------|-------------------|
| 5 | 232010 | Surface dressing on new surface with paving bitumen of grade A-90/ S-90 of approved quality using 2.25 kg of bitumen. per sqm with 1.65 cum of stone chippings 13.2mm nominal size per 100 sqm of road surface including consolidation with road roller of 6 to 8 tonne capacity etc. complete | Sqm | 518.40 | 160.58 | 83244.67 |
| | | Providing and applying tack coat using bitumen emulsion (Rapid setting) complying with IS: 8887- 1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specification | | | | |
| 6 | 233011 | On W.B.M. @ 0.4kg/ sqm | Sqm | 518.40 | 22.20 | 11508.48 |
| 7 | 233012 | On bituminous surface @ 0.25kg/ sqm | Sqm | 518.40 | 15.47 | 8019.65 |
| | | Providing and laying 2.5cm premix carpet surfacing with 2.25Cum and 1.12cum of stone chippings of 13.2mm size and 11.2mm size respectively and 180kg of hot bitumen per 100sqm over a tack coat including consolidation with road roller of 6 to 8tonne capacity etc. complete (tack coat to be paid separately). | | | | |
| 8 | 233031 | With paving asphalt 80/ 100 heated and then mixed with solvent at the rate of 70grams per kg. of asphalt | Sqm | 518.40 | 153.43 | 79538.11 |
| 9 | 235010 | Providing and laying seal coat of premixed fine aggregate (passing 2.36mm and retained on 180micron sieve) with bitumen using 128 kg of bitumen of grade 80/ 100 bitumen and 0.60cum of fine aggregate per 100sqm of road surface including rolling and finishing with road roller all complete. Note - This should not be operated along with Hot mix carpeting | Sqm | 518.40 | 48.09 | 24929.86 |
| 10 | 237070 | Providing and laying Dry Brick (FPS bricks of class designation 7.5) edging of full brick width and half brick depth including excavation, refilling / ramming and disposal of surplus earth lead upto 50 metres | Metre | 345.60 | 85.95 | 29704.32 |
| | | | | | Total | 663605.57 |
| Item- 015 | Portland Pozzolana Cement. | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Supply and using cement at worksite : | | | | |
| 1 | 033063 | PPC | Tonne | 1219.32 | 6400.90 | 7804745.39 |
| | | | | | Total | 7804745.39 |
| Item- 016 | Reinforcement and Structural Steel | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. | | | | |
| 1 | 045014 | High yield strength deformed bars | Kg | 120873.60 | 64.46 | 7791512.26 |
| | | | | | Total | 7791512.26 |
| Schedule | Schedule B-Construction of Single storied (Block of two units) Type -II Quarter in DHN and DDU | | | | | |
| Item- 011 | General work | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level and paid for in layers of 1.5m each, including incidental work, as per specifications-in | | | | |
| 1 | 011011 | All kinds of soils | cum | 3393.90 | 93.54 | 317465.41 |

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|---|--------|---|--------|---------|---------|-----------|
| 2 | 011040 | Extra for manual compaction of earthwork, where permitted, with rammers | cum | 2856.60 | 7.40 | 21138.84 |
| 3 | 012010 | Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly | cum | 734.40 | 10.20 | 7490.88 |
| 4 | 014010 | Dressing Surface (average excavation or filling upto 15 cm) including removing vegetation in all kind of soil. Payment against this item is to be made only if it is not included in earth work item | 10 Sqm | 567.00 | 62.30 | 3532.41 |
| 5 | 021070 | Loading/Unloading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones , rubble stones, laterite, coal, surkhi, dry mortar, sand , moorum, earth, manure or sludge, ashes, lime etc., including lead up to 50m and stacking into/from trucks, trailers or wagons | cum | 2856.60 | 38.66 | 110436.16 |
| 6 | 021090 | Leading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones, rubble stones, laterite, coal, surkhi, dry mortar, sand, moorum, earth, manure or sludge, ashes, lime, debris, muck, malba, etc. for lead upto 25 km. Note : Lead under this item is payable when the same exceeds 500m. | cum | 2856.60 | 88.58 | 253037.63 |
| Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level : | | | | | | |
| 7 | 031011 | 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size) | cum | 172.80 | 2813.60 | 486190.08 |
| Providing and laying cement concrete, up to plinth in retaining walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc, excluding the cost of cement and of shuttering, centering. | | | | | | |
| 8 | 031024 | 1:1.5:3 (1cement : 1.5 sand : 3 graded stone aggregate 20mm nominal size) | cum | 4.73 | 2911.03 | 13754.62 |
| Providing and laying in position M 20 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge | | | | | | |
| 9 | 041011 | All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc. | cum | 40.50 | 3341.60 | 135334.80 |
| 10 | 041012 | All work in buildings above plinth level upto floor two level. | cum | 71.55 | 3619.33 | 258963.06 |
| Centering and shuttering including strutting, propping etc. and removal of form for : | | | | | | |
| 11 | 042011 | Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc. | Sqm | 207.90 | 138.30 | 28752.57 |
| 12 | 042013 | Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform | Sqm | 486.00 | 230.28 | 111916.08 |
| 13 | 042014 | Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers | Sqm | 141.75 | 201.54 | 28568.30 |
| 14 | 042015 | Columns, pillars, , posts and struts | Sqm | 160.65 | 282.30 | 45351.50 |

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|----|--------|--|-----|---------|---------|------------|
| | | Providing, hoisting and fixing in position upto floor two level M20 Grade precast RCC work including setting in cement mortar 1:3 (1 cement : 3 coarse sand) and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete including cost of centering, shuttering, finishing, Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, excluding cost of cement and steel reinforcement, as per approved plan & direction of Engineer incharge. | | | | |
| 15 | 043015 | In slabs for drain covers, manhole covers, flue tops etc. | cum | 10.13 | 3735.88 | 37825.79 |
| | | Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in : | | | | |
| 16 | 051017 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 14.85 | 2880.95 | 42782.11 |
| 17 | 051018 | Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 561.87 | 2880.95 | 1618719.38 |
| 18 | 051040 | Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level : | cum | 105.30 | 140.42 | 14786.23 |
| | | Half brick masonry with bricks of class designation 7.5 in foundations and plinth in : | | | | |
| 19 | 051181 | Cement mortar 1:3 (1 cement : 3 coarse sand) | Sqm | 307.80 | 340.26 | 104732.03 |
| 20 | 051190 | Extra for half Brick masonry in superstructure above plinth level upto floor two level | Sqm | 307.80 | 38.70 | 11911.86 |
| | | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete | | | | |
| 21 | 074232 | Fixed to opening/ wooden frames with rawl plugs screws etc. | Kg | 1046.25 | 84.72 | 88638.30 |
| | | Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required | | | | |
| 22 | 081412 | In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works | Kg | 1263.60 | 87.45 | 110501.82 |
| | | Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary) of average thickness 25 mm including ramming sub grade : | | | | |
| 23 | 091032 | Flat brick | Sqm | 845.10 | 237.25 | 200499.98 |
| 24 | 091090 | Laying cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) of thickness 40 to 100mm as under layer of flooring | cum | 44.01 | 3198.75 | 140776.99 |
| | | Providing and fixing 1st quality ceramic tiles conforming to Group B-III (Ceramic Wall Tiles) of IS:15622 of manufacturers approved by railway in all colours, shades, and design as approved by the Engineer-in-Charge in skirting, risers of steps and dado over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete | | | | |
| 25 | 095012 | 200x300 mm | Sqm | 221.40 | 615.26 | 136218.56 |
| | | Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by railway in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete | | | | |
| 26 | 095026 | Of Group B-I-a of IS : 15622 (Vitrified tiles) of size above 400x400mm upto 600x600 mm | Sqm | 229.50 | 1016.16 | 233208.72 |

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| | | Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias, dados and skirtings and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing. etc. complete at all levels | | | | |
| 27 | 099035 | Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger | Sqm | 4.05 | 3615.48 | 14642.69 |
| | | 12 mm cement plaster of mix - | | | | |
| 28 | 111012 | 1:6 (1cement: 6fine sand) | Sqm | 907.20 | 62.50 | 56700.00 |
| | | 15 mm cement plaster on the rough side of single or half brick wall of mix - | | | | |
| 29 | 111022 | 1:6 (1cement: 6 fine sand) | Sqm | 926.10 | 72.02 | 66697.72 |
| | | 12 mm cement plaster finished with a floating coat of neat cement of mix - | | | | |
| 30 | 111071 | 1:3 (1cement: 3fine sand) | Sqm | 245.70 | 74.66 | 18343.96 |
| | | Cement plaster to ceiling of mix - | | | | |
| 31 | 111151 | 6 mm thick 1:3 (1cement: 3 fine sand) | Sqm | 248.40 | 53.56 | 13304.30 |
| 32 | 112040 | Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete | Sqm | 1108.35 | 93.02 | 103098.72 |
| | | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade | | | | |
| 33 | 115042 | New work (two or more coats of distemper) over and including priming coat with distemper primer | Sqm | 1108.35 | 64.12 | 71067.40 |
| 34 | 115080 | Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications with two or more coats applied @ 1.25ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr/10sqm | Sqm | 1028.70 | 76.35 | 78541.25 |
| | | Applying Priming Coat : | | | | |
| 35 | 121011 | With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood) | Sqm | 251.10 | 23.53 | 5908.38 |
| 36 | 121150 | Painting two coats (excluding priming coat) with chocolate, red, grey or buff ready mixed paint of approved quality, on steel or wood work | Sqm | 370.44 | 46.67 | 17288.43 |
| 37 | 252140 | Local sand / pit sand/yamuna sand for filling purposes | cum | 221.40 | 607.18 | 134429.65 |
| | | | | | Total | 5142556.61 |
| Item- 012 | Wood Work | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Providing wood work in frames of doors, windows, clerestory windows and other frames and trusses, wrought, framed and fixed in position : | | | | |
| 1 | 071012 | Sal wood | cudm | 2870.10 | 78.37 | 224929.74 |
| | | Providing and fixing panelled/glazed or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S. butt hinges with necessary screws excluding, panelling/glazing which will be paid for separately | | | | |
| 2 | 072015 | Kail, venteak, pillamarudhu or locally available comparable species of good country wood (to be listed by respective railway). 35mm thick | Sqm | 40.77 | 1361.13 | 55493.27 |
| | | Providing and fixing to IS: 2202 Part-1 marked flush door shutter decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters | | | | |

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|------------------|---------------------|--|-------------|------------|--------------|------------------|
| 3 | 072142 | 30mm thick including ISI marked stainless steel butt hinges with necessary screws | Sqm | 41.85 | 2121.41 | 88781.01 |
| | | Providing and fixing 25mm thick cup board shutters , with veneered particle board conforming to IS 3097 - Grade1 of approved make including second class teak wood lipping 25x12mm thick with necessary screws and nickel plated bright finished MS piano hinges complete | | | | |
| 4 | 073042 | With commercial veneering on both sides | Sqm | 17.55 | 2029.68 | 35620.88 |
| | | Providing and fixing ISI: 12817 marked stainless steel butt hinges with stainless steel screws etc. complete of size | | | | |
| 5 | 076013 | 75x47x1.80mm | Each | 336.00 | 30.28 | 10174.08 |
| 6 | 076014 | 50x37x1.50mm | Each | 162.00 | 19.54 | 3165.48 |
| | | Providing and fixing ISI marked aluminium butt hinges ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 7 | 078013 | 100x75x4mm | Each | 36.00 | 86.56 | 3116.16 |
| | | Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete | | | | |
| 8 | 078021 | 300x16mm | Each | 66.00 | 264.70 | 17470.20 |
| | | Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 9 | 078033 | 200x10mm | Each | 30.00 | 78.50 | 2355.00 |
| 10 | 078034 | 150x10mm | Each | 144.00 | 68.74 | 9898.56 |
| | | Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 11 | 078061 | 125mm | Each | 60.00 | 53.90 | 3234.00 |
| 12 | 078062 | 100mm | Each | 156.00 | 58.92 | 9191.52 |
| 13 | 078130 | Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitered at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge | Metre | 51.30 | 417.09 | 21396.72 |
| 14 | 078140 | Providing and fixing to existing door frames 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers. M.S. frame covered with 5mm thick heat moulded PVC Foam sheet 'C channel as per drawing given in IR Standard Specifications complete in all respect | Sqm | 15.12 | 2579.79 | 39006.42 |
| | | | | | Total | 523833.04 |
| Item- 013 | Pipeline & Sanitary | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |

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| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; SDR 7.4 U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including fixing the pipe with clamps at 1.00m spacing in. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the walls etc. | | | | |
| 1 | 131052 | PN-16 Pipe, 20mm OD | Metre | 75.60 | 169.04 | 12779.42 |
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work | | | | |
| 2 | 131064 | PN-16 Pipe, 32mm OD (SDR-7.4) | Metre | 102.60 | 236.77 | 24292.60 |
| 3 | 131068 | PN-16 Pipe, 75mm OD (SDR-7.4) | Metre | 64.80 | 1095.56 | 70992.29 |
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) designated as PN-10 pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work (higher dia) | | | | |
| 4 | 131071 | PN-10 Pipe, 110mm OD (SDR-11) | Metre | 16.20 | 2169.13 | 35139.91 |
| 5 | 131072 | PN-10 Pipe, 160mm OD (SDR-11) | Metre | 45.00 | 4375.91 | 196915.95 |
| | | Providing and fixing medium grade G.I. pipes complete with G.I. fittings including trenching and refilling etc. External Work | | | | |
| 6 | 131158 | 80 mm dia. nominal bore | Metre | 18.00 | 760.35 | 13686.30 |
| | | Providing and fixing PP-R Gate Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 7 | 131182 | 32 mm Gate Valve | Each | 12.00 | 638.95 | 7667.40 |
| | | Providing and fixing PP-R Brass Ball Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 8 | 131193 | 32mm Ball Valve | Each | 6.00 | 1340.62 | 8043.72 |
| | | Providing and fixing PP-R Male adopter conforming to PN-25 rating with marking on each fitting, fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 9 | 131201 | 20mm adopter for PPR-GI connection | Each | 24.00 | 231.96 | 5567.04 |
| 10 | 131203 | 32mm adopter for PPR-GI connection | Each | 18.00 | 403.92 | 7270.56 |
| 11 | 131207 | 75mm adopter for PPR-GI connection | Each | 12.00 | 1669.85 | 20038.20 |
| | | Providing and fixing gun metal non- return valve of 80 mm nominal bore approved quality (screwed end) | | | | |
| 12 | 132101 | Horizontal | Each | 0.75 | 3962.22 | 2971.67 |
| 13 | 132180 | Providing and fixing C.P. brass bib cock, 15mm nominal bore, of approved quality conforming to IS:8931 | Each | 24.00 | 409.49 | 9827.76 |
| 14 | 132210 | Providing and fixing C.P. brass stop cock, 15 mm nominal bore, (concealed) of standard design and of approved make conforming to IS:8931 | Each | 24.00 | 384.65 | 9231.60 |

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Tender No: KKK-EN-QTR-DHN-DDU-PH-I

Closing Date/Time: 24/02/2022 15:00

| | | | | | | |
|----|--------|--|-------|---------|---------|----------|
| | | Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work) | | | | |
| 15 | 136131 | 15mm nominal bore | Each | 18.00 | 115.38 | 2076.84 |
| 16 | 136133 | 25mm nominal bore | Each | 18.00 | 167.57 | 3016.26 |
| 17 | 136150 | Providing and placing on terrace/staging (at all heights) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank | Litre | 5400.00 | 6.57 | 35478.00 |
| | | Supplying and fixing on water tanks etc. slotted WATER indicator board with M.S. Pulley ball bearing type phosphorus bronze twisted wire, wood float etc. complete in all respect and in metric units. The rate includes fixing at all heights | | | | |
| 18 | 137062 | More than 1.25 m long | Each | 0.15 | 1573.25 | 235.99 |
| | | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap, 10litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required | | | | |
| 19 | 151011 | White Vitreous China Orissa pattern W.C. pan of size 580x440-mm with integral type foot rests | Each | 6.00 | 3253.40 | 19520.40 |
| | | Providing and fixing wash basin with C.I./ M.S. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required | | | | |
| 20 | 151074 | white vitreous china flat back wash basin size 550x400mm with single 15mm C.P. brass pillar tap | Each | 12.00 | 1767.28 | 21207.36 |
| | | Providing and fixing Stainless Steel AISI- 304 (18/8) kitchen sink with drain board as per IS: 13983 with C.I. brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required | | | | |
| 21 | 152021 | 510x1040 mm bowl depth 250mm | Each | 6.00 | 4128.44 | 24770.64 |
| | | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete | | | | |
| 22 | 152083 | Semi rigid pipe40mm dia. | Each | 18.00 | 96.40 | 1735.20 |
| | | Providing and fixing mirror of 5.5 mm thickness of float Glass (of approved Quality) required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing | | | | |
| 23 | 152122 | Rectangular shape 453x357mm (outer dimension) | Each | 12.00 | 826.95 | 9923.40 |
| | | Providing and fixing soil, waste and vent pipes | | | | |
| 24 | 153011 | 100mm dia. Sand cast iron S&S pipe as per IS:1729 | Metre | 12.00 | 640.09 | 7681.08 |
| | | Providing and fixing single equal plain junction of required degree with access door, insertion rubber wash 3mm thick, bolts and nuts complete | | | | |
| 25 | 153091 | 100x100x100mm sand cast iron S&S as per IS-1729 | Each | 6.00 | 479.76 | 2878.56 |
| | | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with C.P. brass screws with concealed fitting arrangement of approved quality colour and make | | | | |
| 26 | 153322 | 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms | Each | 12.00 | 524.29 | 6291.48 |
| 27 | 153330 | Providing and fixing PTMT shelf 440mm long, 124mm width and 36mm height of approved quality, colour and make weighing not less than 300gms | Each | 12.00 | 436.09 | 5233.08 |

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|---------------------------|----------------|--|-------------|------------|--------------|------------------|
| 28 | 153380 | Providing and fixing C P brass Soap dish holder having length of 138 mm, 102 mm wide, 75 mm high with concealed fittings arrangements weighing approx. 110 gms | Each | 18.00 | 189.72 | 3414.96 |
| 29 | 153390 | Providing and fixing Shower rose (C.P.) brass with swivel joint having aprox. wt. 270 gm | Each | 6.00 | 349.18 | 2095.08 |
| | | Providing and fixing PVC connector 15 mm size with non corrosive PTMT couplings in both ends | | | | |
| 30 | 153493 | 15mm dia 600mm long | Each | 18.00 | 96.35 | 1734.30 |
| 31 | 154010 | Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete | Metre | 36.00 | 264.69 | 9528.84 |
| 32 | 154070 | Providing and fixing 110 mm x 110 mm x 5mm PVC plain branch (single unequal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and cost of spun yarn and sand etc., complete | Each | 6.00 | 135.93 | 815.58 |
| 33 | 154100 | Providing and fixing 110 mm PVC Plain bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete | Each | 12.00 | 94.71 | 1136.52 |
| 34 | 171420 | Supplying, fitting, fixing & installing including boring of 40 mm dia hand tube well assembly India Mark II having total depth of 50 metres with the following components as per IS:9301 : i) Hand pump (single acting) India mark - II galvanised as per IS : 9301 - 90. ii) Brass strainer mesh type made of long slotted medium B class G.I. pipes with 80-mesh brass wire net wrapping around the perforated pipe and jacketed by 26 / 28 SWG brass perforated sheet. 40 mm dia (2 lengths of each 1.83 m connected with G.I. socket). iii) C.I. cylinder with G.M. parts India mark - II 65 mm dia x 0.45 m long as per IS: 9301 - 90. iv) G.I. casing pipe 100 mm dia medium quality ISI marked 18 m long. v) G.I. pipe 40 mm dia medium quality ISI marked 28.35 m long. vi) 32 mm dia G.I. pipe (riser) medium quality ISI marked 17 m long. vii) 12 mm dia bright bar electro galvanised connecting rod, 3.0 m long each as per IS : 9301 of length as required. viii) all accessories as per IS: 9301 -90 such as G.I. reducing socket 100 mm x 40 mm, C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. The work also includes priming, development and testing of the yield (which should be sufficient enough) for seven days with all labour, material, tools and plants complete. ix) 40 mm dia G.I. ISI marked medium quality hanging pipe to the extent of 17 m. x) all accessories such as C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. as required . The work also includes priming & development and testing of the yield (which should be sufficient enough) for seven days with cost of labour and material, all tools and plants complete in all respect | Each | 0.75 | 51914.64 | 38935.98 |
| | | | | | Total | 622133.97 |
| Item- 014 Roadwork | | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 231010 | Preparation of subgrade by excavating earth upto 22.5cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonne capacity including making good the undulations etc. and disposal of surplus earth with lead upto 50 metres | Sqm | 68.40 | 38.41 | 2627.24 |
| 2 | 231020 | Consolidation of subgrade with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and re-rolling the subgrade | Sqm | 68.40 | 1.50 | 102.60 |
| | | Providing and laying each layer of flat brick soling hand packed and joints filled with ordinary sand | | | | |

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|------------------|---|--|-------------|------------|--------------|------------------|
| 3 | 231031 | With well burnt bricks. Class 7.5 designation | Sqm | 68.40 | 182.54 | 12485.74 |
| | | Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete. | | | | |
| 4 | 231041 | Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size | cum | 19.80 | 1925.10 | 38116.98 |
| 5 | 232010 | Surface dressing on new surface with paving bitumen of grade A-90/ S-90 of approved quality using 2.25 kg of bitumen. per sqm with 1.65 cum of stone chippings 13.2mm nominal size per 100 sqm of road surface including consolidation with road roller of 6 to 8 tonne capacity etc. complete | Sqm | 64.80 | 160.58 | 10405.58 |
| | | Providing and applying tack coat using bitumen emulsion (Rapid setting) complying with IS: 8887- 1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specification | | | | |
| 6 | 233011 | On W.B.M. @ 0.4kg/ sqm | Sqm | 64.80 | 22.20 | 1438.56 |
| 7 | 233012 | On bituminous surface @ 0.25kg/ sqm | Sqm | 64.80 | 15.47 | 1002.46 |
| | | Providing and laying 2.5cm premix carpet surfacing with 2.25Cum and 1.12cum of stone chippings of 13.2mm size and 11.2mm size respectively and 180kg of hot bitumen per 100sqm over a tack coat including consolidation with road roller of 6 to 8tonne capacity etc. complete (tack coat to be paid separately). | | | | |
| 8 | 233031 | With paving asphalt 80/ 100 heated and then mixed with solvent at the rate of 70grams per kg. of asphalt | Sqm | 64.80 | 153.43 | 9942.26 |
| 9 | 235010 | Providing and laying seal coat of premixed fine aggregate (passing 2.36mm and retained on 180micron sieve) with bitumen using 128 kg of bitumen of grade 80/ 100 bitumen and 0.60cum of fine aggregate per 100sqm of road surface including rolling and finishing with road roller all complete. Note - This should not be operated along with Hot mix carpeting | Sqm | 64.80 | 48.09 | 3116.23 |
| 10 | 237070 | Providing and laying Dry Brick (FPS bricks of class designation 7.5) edging of full brick width and half brick depth including excavation, refilling / ramming and disposal of surplus earth lead upto 50 metres | Metre | 43.20 | 85.95 | 3713.04 |
| | | | | | Total | 82950.69 |
| Item- 015 | Portland Pozzolana Cement | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Supply and using cement at worksite : | | | | |
| 1 | 033063 | PPC | Tonne | 152.42 | 6400.90 | 975593.17 |
| | | | | | Total | 975593.17 |
| Item- 016 | Reinforcement and Structural Steel | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. | | | | |
| 1 | 045014 | High yield strength deformed bars | Kg | 15109.20 | 64.46 | 973939.03 |
| | | | | | Total | 973939.03 |
| Schedule | Schedule C-Construction of Single storied (Block of one unit) Type -II Quarter in DHN and DDU | | | | | |
| Item- 011 | General work | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |

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|----|--------|--|--------|---------|---------|-----------|
| | | Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level and paid for in layers of 1.5m each, including incidental work, as per specifications-in | | | | |
| 1 | 011011 | All kinds of soils | cum | 1131.30 | 93.54 | 105821.80 |
| 2 | 011040 | Extra for manual compaction of earthwork, where permitted, with rammers | cum | 952.20 | 7.40 | 7046.28 |
| 3 | 012010 | Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly | cum | 244.80 | 10.20 | 2496.96 |
| 4 | 014010 | Dressing Surface (average excavation or filling upto 15 cm) including removing vegetation in all kind of soil. Payment against this item is to be made only if it is not included in earth work item | 10 Sqm | 189.00 | 62.30 | 1177.47 |
| 5 | 021070 | Loading/Unloading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones , rubble stones, laterite, coal, surkhi, dry mortar, sand , moorum, earth, manure or sludge, ashes, lime etc., including lead up to 50m and stacking into/from trucks, trailers or wagons | cum | 952.20 | 38.66 | 36812.05 |
| 6 | 021090 | Leading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones, rubble stones, laterite, coal, surkhi, dry mortar, sand, moorum, earth, manure or sludge, ashes, lime, debris, muck, malba, etc. for lead upto 25 km. Note : Lead under this item is payable when the same exceeds 500m. | cum | 952.20 | 88.58 | 84345.88 |
| | | Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level : | | | | |
| 7 | 031011 | 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size) | cum | 57.60 | 2813.60 | 162063.36 |
| | | Providing and laying cement concrete, up to plinth in retaining walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc, excluding the cost of cement and of shuttering, centering. | | | | |
| 8 | 031024 | 1:1.5:3 (1cement : 1.5 sand : 3 graded stone aggregate 20mm nominal size) | cum | 1.58 | 2911.03 | 4584.87 |
| | | Providing and laying in position M 20 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge | | | | |
| 9 | 041011 | All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc. | cum | 13.50 | 3341.60 | 45111.60 |
| 10 | 041012 | All work in buildings above plinth level upto floor two level. | cum | 23.85 | 3619.33 | 86321.02 |
| | | Centering and shuttering including strutting, propping etc. and removal of form for : | | | | |
| 11 | 042011 | Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc. | Sqm | 69.30 | 138.30 | 9584.19 |
| 12 | 042013 | Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform | Sqm | 162.00 | 230.28 | 37305.36 |
| 13 | 042014 | Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers | Sqm | 47.25 | 201.54 | 9522.77 |

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|----|--------|--|-----|--------|---------|-----------|
| 14 | 042015 | Columns, pillars, , posts and struts | Sqm | 53.55 | 282.30 | 15117.17 |
| | | Providing, hoisting and fixing in position upto floor two level M20 Grade precast RCC work including setting in cement mortar 1:3 (1 cement : 3 coarse sand) and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete including cost of centering, shuttering, finishing, Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, excluding cost of cement and steel reinforcement, as per approved plan & direction of Engineer incharge. | | | | |
| 15 | 043015 | In slabs for drain covers, manhole covers, flue tops etc. | cum | 3.38 | 3735.88 | 12608.60 |
| | | Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in : | | | | |
| 16 | 051017 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 4.95 | 2880.95 | 14260.70 |
| 17 | 051018 | Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 187.29 | 2880.95 | 539573.13 |
| 18 | 051040 | Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level : | cum | 35.10 | 140.42 | 4928.74 |
| | | Half brick masonry with bricks of class designation 7.5 in foundations and plinth in : | | | | |
| 19 | 051181 | Cement mortar 1:3 (1 cement : 3 coarse sand) | Sqm | 102.60 | 340.26 | 34910.68 |
| 20 | 051190 | Extra for half Brick masonry in superstructure above plinth level upto floor two level | Sqm | 102.60 | 38.70 | 3970.62 |
| | | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete | | | | |
| 21 | 074232 | Fixed to opening/ wooden frames with rawl plugs screws etc. | Kg | 348.75 | 84.72 | 29546.10 |
| | | Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required | | | | |
| 22 | 081412 | In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works | Kg | 421.20 | 87.45 | 36833.94 |
| | | Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary)of average thickness 25 mm including ramming sub grade : | | | | |
| 23 | 091032 | Flat brick | Sqm | 281.70 | 237.25 | 66833.33 |
| 24 | 091090 | Laying cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) of thickness 40 to 100mm as under layer of flooring | cum | 14.67 | 3198.75 | 46925.66 |
| | | Providing and fixing 1st quality ceramic tiles conforming to Group B-III (Ceramic Wall Tiles) of IS:15622 of manufacturers approved by railway in all colours, shades, and design as approved by the Engineer-in-Charge in skirting, risers of steps and dado over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete | | | | |
| 25 | 095012 | 200x300 mm | Sqm | 73.80 | 615.26 | 45406.19 |
| | | Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by railway in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete | | | | |
| 26 | 095026 | Of Group B-I-a of IS : 15622 (Vitrified tiles) of size above 400x400mm upto 600x600 mm | Sqm | 76.50 | 1016.16 | 77736.24 |

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|------------------|------------------|---|-------------|------------|--------------|-------------------|
| | | Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias, dados and skirtings and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing. etc. complete at all levels | | | | |
| 27 | 099035 | Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger | Sqm | 1.35 | 3615.48 | 4880.90 |
| | | 12 mm cement plaster of mix - | | | | |
| 28 | 111012 | 1:6 (1cement: 6fine sand) | Sqm | 302.40 | 62.50 | 18900.00 |
| | | 15 mm cement plaster on the rough side of single or half brick wall of mix - | | | | |
| 29 | 111022 | 1:6 (1cement: 6 fine sand) | Sqm | 308.70 | 72.02 | 22232.57 |
| | | 12 mm cement plaster finished with a floating coat of neat cement of mix - | | | | |
| 30 | 111071 | 1:3 (1cement: 3fine sand) | Sqm | 81.90 | 74.66 | 6114.65 |
| | | Cement plaster to ceiling of mix - | | | | |
| 31 | 111151 | 6 mm thick 1:3 (1cement: 3 fine sand) | Sqm | 82.80 | 53.56 | 4434.77 |
| 32 | 112040 | Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete | Sqm | 369.45 | 93.02 | 34366.24 |
| | | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade | | | | |
| 33 | 115042 | New work (two or more coats of distemper) over and including priming coat with distemper primer | Sqm | 369.45 | 64.12 | 23689.13 |
| 34 | 115080 | Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications with two or more coats applied @ 1.25ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr/10sqm | Sqm | 342.90 | 76.35 | 26180.42 |
| | | Applying Priming Coat : | | | | |
| 35 | 121011 | With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood) | Sqm | 83.70 | 23.53 | 1969.46 |
| 36 | 121150 | Painting two coats (excluding priming coat) with chocolate, red, grey or buff ready mixed paint of approved quality, on steel or wood work | Sqm | 123.48 | 46.67 | 5762.81 |
| 37 | 252140 | Local sand / pit sand/yamuna sand for filling purposes | cum | 73.80 | 607.18 | 44809.88 |
| | | | | | Total | 1714185.54 |
| Item- 012 | Wood Work | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Providing wood work in frames of doors, windows, clerestory windows and other frames and trusses, wrought, framed and fixed in position : | | | | |
| 1 | 071012 | Sal wood | cudm | 956.70 | 78.37 | 74976.58 |
| | | Providing and fixing panelled/glazed or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S. butt hinges with necessary screws excluding, panelling/glazing which will be paid for separately | | | | |
| 2 | 072015 | Kail, venteak, pillamarudhu or locally available comparable species of good country wood (to be listed by respective railway). 35mm thick | Sqm | 13.59 | 1361.13 | 18497.76 |
| | | Providing and fixing to IS: 2202 Part-1 marked flush door shutter decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters | | | | |

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| 3 | 072142 | 30mm thick including ISI marked stainless steel butt hinges with necessary screws | Sqm | 13.95 | 2121.41 | 29593.67 |
| | | Providing and fixing 25mm thick cup board shutters , with veneered particle board conforming to IS 3097 - Grade1 of approved make including second class teak wood lipping 25x12mm thick with necessary screws and nickel plated bright finished MS piano hinges complete | | | | |
| 4 | 073042 | With commercial veneering on both sides | Sqm | 5.85 | 2029.68 | 11873.63 |
| | | Providing and fixing ISI: 12817 marked stainless steel butt hinges with stainless steel screws etc. complete of size | | | | |
| 5 | 076013 | 75x47x1.80mm | Each | 112.00 | 30.28 | 3391.36 |
| 6 | 076014 | 50x37x1.50mm | Each | 54.00 | 19.54 | 1055.16 |
| | | Providing and fixing ISI marked aluminium butt hinges ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 7 | 078013 | 100x75x4mm | Each | 12.00 | 86.56 | 1038.72 |
| | | Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete | | | | |
| 8 | 078021 | 300x16mm | Each | 22.00 | 264.70 | 5823.40 |
| | | Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 9 | 078033 | 200x10mm | Each | 10.00 | 78.50 | 785.00 |
| 10 | 078034 | 150x10mm | Each | 48.00 | 68.74 | 3299.52 |
| | | Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 11 | 078061 | 125mm | Each | 20.00 | 53.90 | 1078.00 |
| 12 | 078062 | 100mm | Each | 52.00 | 58.92 | 3063.84 |
| 13 | 078130 | Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitered at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge | Metre | 17.10 | 417.09 | 7132.24 |
| 14 | 078140 | Providing and fixing to existing door frames 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers. M.S. frame covered with 5mm thick heat moulded PVC Foam sheet 'C channel as per drawing given in IR Standard Specifications complete in all respect | Sqm | 5.04 | 2579.79 | 13002.14 |
| | | | | | Total | 174611.02 |
| Item- 013 | Pipeline & Sanitary | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |

**EDFC FIELD UNIT-KOLKATA-CIVIL/EDFC
TENDER DOCUMENT**

Tender No: KKK-EN-QTR-DHN-DDU-PH-I

Closing Date/Time: 24/02/2022 15:00

| | | | | | | |
|----|--------|--|-------|-------|---------|----------|
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; SDR 7.4 U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including fixing the pipe with clamps at 1.00m spacing in. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the walls etc. | | | | |
| 1 | 131052 | PN-16 Pipe, 20mm OD | Metre | 25.20 | 169.04 | 4259.81 |
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work | | | | |
| 2 | 131064 | PN-16 Pipe, 32mm OD (SDR-7.4) | Metre | 34.20 | 236.77 | 8097.53 |
| 3 | 131068 | PN-16 Pipe, 75mm OD (SDR-7.4) | Metre | 21.60 | 1095.56 | 23664.10 |
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) designated as PN-10 pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work (higher dia) | | | | |
| 4 | 131071 | PN-10 Pipe, 110mm OD (SDR-11) | Metre | 5.40 | 2169.13 | 11713.30 |
| 5 | 131072 | PN-10 Pipe, 160mm OD (SDR-11) | Metre | 15.00 | 4375.91 | 65638.65 |
| | | Providing and fixing medium grade G.I. pipes complete with G.I. fittings including trenching and refilling etc. External Work | | | | |
| 6 | 131158 | 80 mm dia. nominal bore | Metre | 6.00 | 760.35 | 4562.10 |
| | | Providing and fixing PP-R Gate Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 7 | 131182 | 32 mm Gate Valve | Each | 4.00 | 638.95 | 2555.80 |
| | | Providing and fixing PP-R Brass Ball Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 8 | 131193 | 32mm Ball Valve | Each | 2.00 | 1340.62 | 2681.24 |
| | | Providing and fixing PP-R Male adopter conforming to PN-25 rating with marking on each fitting, fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 9 | 131201 | 20mm adopter for PPR-GI connection | Each | 8.00 | 231.96 | 1855.68 |
| 10 | 131203 | 32mm adopter for PPR-GI connection | Each | 6.00 | 403.92 | 2423.52 |
| 11 | 131207 | 75mm adopter for PPR-GI connection | Each | 4.00 | 1669.85 | 6679.40 |
| | | Providing and fixing gun metal non- return valve of 80 mm nominal bore approved quality (screwed end) | | | | |
| 12 | 132101 | Horizontal | Each | 0.25 | 3962.22 | 990.56 |
| 13 | 132180 | Providing and fixing C.P. brass bib cock, 15mm nominal bore, of approved quality conforming to IS:8931 | Each | 8.00 | 409.49 | 3275.92 |
| 14 | 132210 | Providing and fixing C.P. brass stop cock, 15 mm nominal bore, (concealed) of standard design and of approved make conforming to IS:8931 | Each | 8.00 | 384.65 | 3077.20 |

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| | | | | | | |
|----|--------|--|-------|---------|---------|----------|
| | | Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work) | | | | |
| 15 | 136131 | 15mm nominal bore | Each | 6.00 | 115.38 | 692.28 |
| 16 | 136133 | 25mm nominal bore | Each | 6.00 | 167.57 | 1005.42 |
| 17 | 136150 | Providing and placing on terrace/staging (at all heights) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank | Litre | 2000.00 | 6.57 | 13140.00 |
| | | Supplying and fixing on water tanks etc. slotted WATER indicator board with M.S. Pulley ball bearing type phosphorus bronze twisted wire, wood float etc. complete in all respect and in metric units. The rate includes fixing at all heights | | | | |
| 18 | 137062 | More than 1.25 m long | Each | 0.05 | 1573.25 | 78.66 |
| | | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap, 10litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required | | | | |
| 19 | 151011 | White Vitreous China Orissa pattern W.C. pan of size 580x440-mm with integral type foot rests | Each | 2.00 | 3253.40 | 6506.80 |
| | | Providing and fixing wash basin with C.I./ M.S. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required | | | | |
| 20 | 151074 | white vitreous china flat back wash basin size 550x400mm with single 15mm C.P. brass pillar tap | Each | 4.00 | 1767.28 | 7069.12 |
| | | Providing and fixing Stainless Steel AISI- 304 (18/8) kitchen sink with drain board as per IS: 13983 with C.I. brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required | | | | |
| 21 | 152021 | 510x1040 mm bowl depth 250mm | Each | 2.00 | 4128.44 | 8256.88 |
| | | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete | | | | |
| 22 | 152083 | Semi rigid pipe40mm dia. | Each | 6.00 | 96.40 | 578.40 |
| | | Providing and fixing mirror of 5.5 mm thickness of float Glass (of approved Quality) required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing | | | | |
| 23 | 152122 | Rectangular shape 453x357mm (outer dimension) | Each | 4.00 | 826.95 | 3307.80 |
| | | Providing and fixing soil, waste and vent pipes | | | | |
| 24 | 153011 | 100mm dia. Sand cast iron S&S pipe as per IS:1729 | Metre | 4.00 | 640.09 | 2560.36 |
| | | Providing and fixing single equal plain junction of required degree with access door, insertion rubber wash 3mm thick, bolts and nuts complete | | | | |
| 25 | 153091 | 100x100x100mm sand cast iron S&S as per IS-1729 | Each | 2.00 | 479.76 | 959.52 |
| | | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with C.P. brass screws with concealed fitting arrangement of approved quality colour and make | | | | |
| 26 | 153322 | 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms | Each | 4.00 | 524.29 | 2097.16 |
| 27 | 153330 | Providing and fixing PTMT shelf 440mm long, 124mm width and 36mm height of approved quality, colour and make weighing not less than 300gms | Each | 4.00 | 436.09 | 1744.36 |

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|------------------|-----------------|--|-------------|------------|--------------|------------------|
| 28 | 153380 | Providing and fixing C P brass Soap dish holder having length of 138 mm, 102 mm wide, 75 mm high with concealed fittings arrangements weighing approx. 110 gms | Each | 6.00 | 189.72 | 1138.32 |
| 29 | 153390 | Providing and fixing Shower rose (C.P.) brass with swivel joint having aprox. wt. 270 gm | Each | 2.00 | 349.18 | 698.36 |
| | | Providing and fixing PVC connector 15 mm size with non corrosive PTMT couplings in both ends | | | | |
| 30 | 153493 | 15mm dia 600mm long | Each | 6.00 | 96.35 | 578.10 |
| 31 | 154010 | Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete | Metre | 12.00 | 264.69 | 3176.28 |
| 32 | 154070 | Providing and fixing 110 mm x 110 mm x 5mm PVC plain branch (single unequal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and cost of spun yarn and sand etc., complete | Each | 2.00 | 135.93 | 271.86 |
| 33 | 154100 | Providing and fixing 110 mm PVC Plain bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete | Each | 4.00 | 94.71 | 378.84 |
| 34 | 171420 | Supplying, fitting, fixing & installing including boring of 40 mm dia hand tube well assembly India Mark II having total depth of 50 metres with the following components as per IS:9301 : i) Hand pump (single acting) India mark - II galvanised as per IS : 9301 - 90. ii) Brass strainer mesh type made of long slotted medium B class G.I. pipes with 80-mesh brass wire net wrapping around the perforated pipe and jacketed by 26 / 28 SWG brass perforated sheet. 40 mm dia (2 lengths of each 1.83 m connected with G.I. socket). iii) C.I. cylinder with G.M. parts India mark - II 65 mm dia x 0.45 m long as per IS: 9301 - 90. iv) G.I. casing pipe 100 mm dia medium quality ISI marked 18 m long. v) G.I. pipe 40 mm dia medium quality ISI marked 28.35 m long. vi) 32 mm dia G.I. pipe (riser) medium quality ISI marked 17 m long. vii) 12 mm dia bright bar electro galvanised connecting rod, 3.0 m long each as per IS : 9301 of length as required. viii) all accessories as per IS: 9301 -90 such as G.I. reducing socket 100 mm x 40 mm, C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. The work also includes priming, development and testing of the yield (which should be sufficient enough) for seven days with all labour, material, tools and plants complete. ix) 40 mm dia G.I. ISI marked medium quality hanging pipe to the extent of 17 m. x) all accessories such as C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. as required . The work also includes priming & development and testing of the yield (which should be sufficient enough) for seven days with cost of labour and material, all tools and plants complete in all respect | Each | 0.25 | 51914.64 | 12978.66 |
| | | | | | Total | 208691.99 |
| Item- 014 | Roadwork | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 231010 | Preparation of subgrade by excavating earth upto 22.5cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonne capacity including making good the undulations etc. and disposal of surplus earth with lead upto 50 metres | Sqm | 22.80 | 38.41 | 875.75 |
| 2 | 231020 | Consolidation of subgrade with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and re-rolling the subgrade | Sqm | 22.80 | 1.50 | 34.20 |
| | | Providing and laying each layer of flat brick soling hand packed and joints filled with ordinary sand | | | | |

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|------------------|--|--|-------------|------------|--------------|------------------|
| 3 | 231031 | With well burnt bricks. Class 7.5 designation | Sqm | 22.80 | 182.54 | 4161.91 |
| | | Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete. | | | | |
| 4 | 231041 | Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size | cum | 6.60 | 1925.10 | 12705.66 |
| 5 | 232010 | Surface dressing on new surface with paving bitumen of grade A-90/ S-90 of approved quality using 2.25 kg of bitumen. per sqm with 1.65 cum of stone chippings 13.2mm nominal size per 100 sqm of road surface including consolidation with road roller of 6 to 8 tonne capacity etc. complete | Sqm | 21.60 | 160.58 | 3468.53 |
| | | Providing and applying tack coat using bitumen emulsion (Rapid setting) complying with IS: 8887- 1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specification | | | | |
| 6 | 233011 | On W.B.M. @ 0.4kg/ sqm | Sqm | 21.60 | 22.20 | 479.52 |
| 7 | 233012 | On bituminous surface @ 0.25kg/ sqm | Sqm | 21.60 | 15.47 | 334.15 |
| | | Providing and laying 2.5cm premix carpet surfacing with 2.25Cum and 1.12cum of stone chippings of 13.2mm size and 11.2mm size respectively and 180kg of hot bitumen per 100sqm over a tack coat including consolidation with road roller of 6 to 8tonne capacity etc. complete (tack coat to be paid separately). | | | | |
| 8 | 233031 | With paving asphalt 80/ 100 heated and then mixed with solvent at the rate of 70grams per kg. of asphalt | Sqm | 21.60 | 153.43 | 3314.09 |
| 9 | 235010 | Providing and laying seal coat of premixed fine aggregate (passing 2.36mm and retained on 180micron sieve) with bitumen using 128 kg of bitumen of grade 80/ 100 bitumen and 0.60cum of fine aggregate per 100sqm of road surface including rolling and finishing with road roller all complete. Note - This should not be operated along with Hot mix carpeting | Sqm | 21.60 | 48.09 | 1038.74 |
| 10 | 237070 | Providing and laying Dry Brick (FPS bricks of class designation 7.5) edging of full brick width and half brick depth including excavation, refilling / ramming and disposal of surplus earth lead upto 50 metres | Metre | 14.40 | 85.95 | 1237.68 |
| | | | | | Total | 27650.23 |
| Item- 015 | Portland Pozzolana Cement | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Supply and using cement at worksite : | | | | |
| 1 | 033063 | PPC | Tonne | 50.81 | 6400.90 | 325197.72 |
| | | | | | Total | 325197.72 |
| Item- 016 | Reinforcement and Structural Steel | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. | | | | |
| 1 | 045014 | High yield strength deformed bars | Kg | 5036.40 | 64.46 | 324646.34 |
| | | | | | Total | 324646.34 |
| Schedule | Schedule D-Construction of Single storied (Block of one unit) Type -III Quarter in DHN and DDU | | | | | |
| Item- 011 | General work | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |

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| | | | | | | |
|----|--------|--|--------|--------|---------|----------|
| | | Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level and paid for in layers of 1.5m each, including incidental work, as per specifications-in | | | | |
| 1 | 011011 | All kinds of soils | cum | 970.65 | 93.54 | 90794.60 |
| 2 | 011040 | Extra for manual compaction of earthwork, where permitted, with rammers | cum | 585.00 | 7.40 | 4329.00 |
| 3 | 012010 | Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly | cum | 970.65 | 10.20 | 9900.63 |
| 4 | 014010 | Dressing Surface (average excavation or filling upto 15 cm) including removing vegetation in all kind of soil. Payment against this item is to be made only if it is not included in earth work item | 10 Sqm | 122.40 | 62.30 | 762.55 |
| 5 | 021070 | Loading/Unloading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones , rubble stones, laterite, coal, surkhi, dry mortar, sand , moorum, earth, manure or sludge, ashes, lime etc., including lead up to 50m and stacking into/from trucks, trailers or wagons | cum | 585.00 | 38.66 | 22616.10 |
| 6 | 021090 | Leading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones, rubble stones, laterite, coal, surkhi, dry mortar, sand, moorum, earth, manure or sludge, ashes, lime, debris, muck, malba, etc. for lead upto 25 km. Note : Lead under this item is payable when the same exceeds 500m. | cum | 585.00 | 88.58 | 51819.30 |
| | | Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level : | | | | |
| 7 | 031011 | 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size) | cum | 32.18 | 2813.60 | 90527.58 |
| | | Providing and laying cement concrete, up to plinth in retaining walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc, excluding the cost of cement and of shuttering, centering. | | | | |
| 8 | 031024 | 1:1.5:3 (1cement : 1.5 sand : 3 graded stone aggregate 20mm nominal size) | cum | 0.99 | 2911.03 | 2881.92 |
| | | Providing and laying in position M 20 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge | | | | |
| 9 | 041011 | All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc. | cum | 8.55 | 3341.60 | 28570.68 |
| 10 | 041012 | All work in buildings above plinth level upto floor two level. | cum | 15.35 | 3619.33 | 55538.62 |
| | | Centering and shuttering including strutting, propping etc. and removal of form for : | | | | |
| 11 | 042011 | Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc. | Sqm | 51.30 | 138.30 | 7094.79 |
| 12 | 042013 | Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform | Sqm | 91.58 | 230.28 | 21087.89 |
| 13 | 042014 | Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers | Sqm | 54.68 | 201.54 | 11019.20 |

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|----|--------|--|-----|--------|---------|-----------|
| 14 | 042015 | Columns, pillars, , posts and struts | Sqm | 37.24 | 282.30 | 10512.15 |
| | | Providing, hoisting and fixing in position upto floor two level M20 Grade precast RCC work including setting in cement mortar 1:3 (1 cement : 3 coarse sand) and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete including cost of centering, shuttering, finishing, Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, excluding cost of cement and steel reinforcement, as per approved plan & direction of Engineer incharge. | | | | |
| 15 | 043015 | In slabs for drain covers, manhole covers, flue tops etc. | cum | 2.25 | 3735.88 | 8405.73 |
| | | Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in : | | | | |
| 16 | 051017 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 2.48 | 2880.95 | 7130.35 |
| 17 | 051018 | Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 97.74 | 2880.95 | 281584.05 |
| 18 | 051040 | Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level : | cum | 19.69 | 140.42 | 2764.52 |
| | | Half brick masonry with bricks of class designation 7.5 in foundations and plinth in : | | | | |
| 19 | 051181 | Cement mortar 1:3 (1 cement : 3 coarse sand) | Sqm | 54.05 | 340.26 | 18389.35 |
| 20 | 051190 | Extra for half Brick masonry in superstructure above plinth level upto floor two level | Sqm | 54.05 | 38.70 | 2091.54 |
| | | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete | | | | |
| 21 | 074232 | Fixed to opening/ wooden frames with rawl plugs screws etc. | Kg | 217.44 | 84.72 | 18421.52 |
| | | Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required | | | | |
| 22 | 081412 | In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works | Kg | 210.60 | 87.45 | 18416.97 |
| | | Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary)of average thickness 25 mm including ramming sub grade : | | | | |
| 23 | 091032 | Flat brick | Sqm | 159.30 | 237.25 | 37793.93 |
| 24 | 091090 | Laying cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) of thickness 40 to 100mm as under layer of flooring | cum | 8.10 | 3198.75 | 25909.88 |
| | | Providing and fixing 1st quality ceramic tiles conforming to Group B-III (Ceramic Wall Tiles) of IS:15622 of manufacturers approved by railway in all colours, shades, and design as approved by the Engineer-in-Charge in skirting, risers of steps and dado over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete | | | | |
| 25 | 095012 | 200x300 mm | Sqm | 41.06 | 615.26 | 25264.11 |
| | | Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by railway in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete | | | | |
| 26 | 095026 | Of Group B-I-a of IS : 15622 (Vitrified tiles) of size above 400x400mm upto 600x600 mm | Sqm | 42.86 | 1016.16 | 43555.16 |

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|------------------|------------------|---|-------------|------------|--------------|-------------------|
| | | Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias, dados and skirtings and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing. etc. complete at all levels | | | | |
| 27 | 099035 | Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger | Sqm | 0.99 | 3615.48 | 3579.33 |
| | | 12 mm cement plaster of mix - | | | | |
| 28 | 111012 | 1:6 (1cement: 6fine sand) | Sqm | 165.60 | 62.50 | 10350.00 |
| | | 15 mm cement plaster on the rough side of single or half brick wall of mix - | | | | |
| 29 | 111022 | 1:6 (1cement: 6 fine sand) | Sqm | 168.75 | 72.02 | 12153.38 |
| | | 12 mm cement plaster finished with a floating coat of neat cement of mix - | | | | |
| 30 | 111071 | 1:3 (1cement: 3fine sand) | Sqm | 42.53 | 74.66 | 3174.92 |
| | | Cement plaster to ceiling of mix - | | | | |
| 31 | 111151 | 6 mm thick 1:3 (1cement: 3 fine sand) | Sqm | 48.15 | 53.56 | 2578.91 |
| 32 | 112040 | Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete | Sqm | 195.75 | 93.02 | 18208.67 |
| | | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade | | | | |
| 33 | 115042 | New work (two or more coats of distemper) over and including priming coat with distemper primer | Sqm | 195.75 | 64.12 | 12551.49 |
| 34 | 115080 | Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications with two or more coats applied @ 1.25ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr/10sqm | Sqm | 174.15 | 76.35 | 13296.35 |
| | | Applying Priming Coat : | | | | |
| 35 | 121011 | With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood) | Sqm | 53.78 | 23.53 | 1265.33 |
| 36 | 121150 | Painting two coats (excluding priming coat) with chocolate, red, grey or buff ready mixed paint of approved quality, on steel or wood work | Sqm | 75.83 | 46.67 | 3538.75 |
| 37 | 252140 | Local sand / pit sand/yamuna sand for filling purposes | cum | 43.74 | 607.18 | 26558.05 |
| | | | | | Total | 1004437.30 |
| Item- 012 | Wood Work | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Providing wood work in frames of doors, windows, clerestory windows and other frames and trusses, wrought, framed and fixed in position : | | | | |
| 1 | 071012 | Sal wood | cudm | 600.08 | 78.37 | 47027.88 |
| | | Providing and fixing panelled/glazed or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S. butt hinges with necessary screws excluding, panelling/glazing which will be paid for separately | | | | |
| 2 | 072015 | Kail, venteak, pillamarudhu or locally available comparable species of good country wood (to be listed by respective railway). 35mm thick | Sqm | 8.84 | 1361.13 | 12035.79 |
| | | Providing and fixing to IS: 2202 Part-1 marked flush door shutter decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters | | | | |

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|------------------|---------------------|--|-------------|------------|--------------|------------------|
| 3 | 072142 | 30mm thick including ISI marked stainless steel butt hinges with necessary screws | Sqm | 8.37 | 2121.41 | 17756.20 |
| | | Providing and fixing 25mm thick cup board shutters , with veneered particle board conforming to IS 3097 - Grade1 of approved make including second class teak wood lipping 25x12mm thick with necessary screws and nickel plated bright finished MS piano hinges complete | | | | |
| 4 | 073042 | With commercial veneering on both sides | Sqm | 3.25 | 2029.68 | 6596.46 |
| | | Providing and fixing ISI: 12817 marked stainless steel butt hinges with stainless steel screws etc. complete of size | | | | |
| 5 | 076013 | 75x47x1.80mm | Each | 56.00 | 30.28 | 1695.68 |
| 6 | 076014 | 50x37x1.50mm | Each | 28.00 | 19.54 | 547.12 |
| | | Providing and fixing ISI marked aluminium butt hinges ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 7 | 078013 | 100x75x4mm | Each | 6.00 | 86.56 | 519.36 |
| | | Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete | | | | |
| 8 | 078021 | 300x16mm | Each | 13.00 | 264.70 | 3441.10 |
| | | Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 9 | 078033 | 200x10mm | Each | 6.00 | 78.50 | 471.00 |
| 10 | 078034 | 150x10mm | Each | 30.00 | 68.74 | 2062.20 |
| | | Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 11 | 078061 | 125mm | Each | 12.00 | 53.90 | 646.80 |
| 12 | 078062 | 100mm | Each | 26.00 | 58.92 | 1531.92 |
| 13 | 078130 | Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitered at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge | Metre | 8.55 | 417.09 | 3566.12 |
| 14 | 078140 | Providing and fixing to existing door frames 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers. M.S. frame covered with 5mm thick heat moulded PVC Foam sheet 'C channel as per drawing given in IR Standard Specifications complete in all respect | Sqm | 2.52 | 2579.79 | 6501.07 |
| | | | | | Total | 104398.70 |
| Item- 013 | Pipeline & Sanitary | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |

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|----|--------|--|-------|-------|---------|----------|
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; SDR 7.4 U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including fixing the pipe with clamps at 1.00m spacing in. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the walls etc. | | | | |
| 1 | 131052 | PN-16 Pipe, 20mm OD | Metre | 12.83 | 169.04 | 2167.94 |
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work | | | | |
| 2 | 131064 | PN-16 Pipe, 32mm OD (SDR-7.4) | Metre | 29.70 | 236.77 | 7032.07 |
| 3 | 131068 | PN-16 Pipe, 75mm OD (SDR-7.4) | Metre | 11.70 | 1095.56 | 12818.05 |
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) designated as PN-10 pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work (higher dia) | | | | |
| 4 | 131071 | PN-10 Pipe, 110mm OD (SDR-11) | Metre | 2.70 | 2169.13 | 5856.65 |
| 5 | 131072 | PN-10 Pipe, 160mm OD (SDR-11) | Metre | 7.50 | 4375.91 | 32819.33 |
| | | Providing and fixing medium grade G.I. pipes complete with G.I. fittings including trenching and refilling etc. External Work | | | | |
| 6 | 131158 | 80 mm dia. nominal bore | Metre | 3.00 | 760.35 | 2281.05 |
| | | Providing and fixing PP-R Gate Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 7 | 131182 | 32 mm Gate Valve | Each | 2.00 | 638.95 | 1277.90 |
| | | Providing and fixing PP-R Brass Ball Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 8 | 131193 | 32mm Ball Valve | Each | 1.00 | 1340.62 | 1340.62 |
| | | Providing and fixing PP-R Male adopter conforming to PN-25 rating with marking on each fitting, fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 9 | 131201 | 20mm adopter for PPR-GI connection | Each | 4.00 | 231.96 | 927.84 |
| 10 | 131203 | 32mm adopter for PPR-GI connection | Each | 3.00 | 403.92 | 1211.76 |
| 11 | 131207 | 75mm adopter for PPR-GI connection | Each | 2.00 | 1669.85 | 3339.70 |
| | | Providing and fixing gun metal non- return valve of 80 mm nominal bore approved quality (screwed end) | | | | |
| 12 | 132101 | Horizontal | Each | 0.13 | 3962.22 | 495.28 |
| 13 | 132180 | Providing and fixing C.P. brass bib cock, 15mm nominal bore, of approved quality conforming to IS:8931 | Each | 4.00 | 409.49 | 1637.96 |
| 14 | 132210 | Providing and fixing C.P. brass stop cock, 15 mm nominal bore, (concealed) of standard design and of approved make conforming to IS:8931 | Each | 4.00 | 384.65 | 1538.60 |

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|----|--------|--|-------|---------|---------|---------|
| | | Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work) | | | | |
| 15 | 136131 | 15mm nominal bore | Each | 3.00 | 115.38 | 346.14 |
| 16 | 136133 | 25mm nominal bore | Each | 3.00 | 167.57 | 502.71 |
| 17 | 136150 | Providing and placing on terrace/staging (at all heights) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank | Litre | 1000.00 | 6.57 | 6570.00 |
| | | Supplying and fixing on water tanks etc. slotted WATER indicator board with M.S. Pulley ball bearing type phosphorus bronze twisted wire, wood float etc. complete in all respect and in metric units. The rate includes fixing at all heights | | | | |
| 18 | 137062 | More than 1.25 m long | Each | 0.03 | 1573.25 | 39.33 |
| | | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap, 10litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required | | | | |
| 19 | 151011 | White Vitreous China Orissa pattern W.C. pan of size 580x440-mm with integral type foot rests | Each | 1.00 | 3253.40 | 3253.40 |
| | | Providing and fixing wash basin with C.I./ M.S. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required | | | | |
| 20 | 151074 | white vitreous china flat back wash basin size 550x400mm with single 15mm C.P. brass pillar tap | Each | 2.00 | 1767.28 | 3534.56 |
| | | Providing and fixing Stainless Steel AISI- 304 (18/8) kitchen sink with drain board as per IS: 13983 with C.I. brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required | | | | |
| 21 | 152021 | 510x1040 mm bowl depth 250mm | Each | 1.00 | 4128.44 | 4128.44 |
| | | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete | | | | |
| 22 | 152083 | Semi rigid pipe40mm dia. | Each | 3.00 | 96.40 | 289.20 |
| | | Providing and fixing mirror of 5.5 mm thickness of float Glass (of approved Quality) required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing | | | | |
| 23 | 152122 | Rectangular shape 453x357mm (outer dimension) | Each | 2.00 | 826.95 | 1653.90 |
| | | Providing and fixing soil, waste and vent pipes | | | | |
| 24 | 153011 | 100mm dia. Sand cast iron S&S pipe as per IS:1729 | Metre | 2.00 | 640.09 | 1280.18 |
| | | Providing and fixing single equal plain junction of required degree with access door, insertion rubber wash 3mm thick, bolts and nuts complete | | | | |
| 25 | 153091 | 100x100x100mm sand cast iron S&S as per IS-1729 | Each | 1.00 | 479.76 | 479.76 |
| | | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with C.P. brass screws with concealed fitting arrangement of approved quality colour and make | | | | |
| 26 | 153322 | 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms | Each | 2.00 | 524.29 | 1048.58 |
| 27 | 153330 | Providing and fixing PTMT shelf 440mm long, 124mm width and 36mm height of approved quality, colour and make weighing not less than 300gms | Each | 2.00 | 436.09 | 872.18 |

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|---------------------------|----------------|--|-------------|------------|--------------|------------------|
| 28 | 153380 | Providing and fixing C P brass Soap dish holder having length of 138 mm, 102 mm wide, 75 mm high with concealed fittings arrangements weighing approx. 110 gms | Each | 3.00 | 189.72 | 569.16 |
| 29 | 153390 | Providing and fixing Shower rose (C.P.) brass with swivel joint having aprox. wt. 270 gm | Each | 1.00 | 349.18 | 349.18 |
| | | Providing and fixing PVC connector 15 mm size with non corrosive PTMT couplings in both ends | | | | |
| 30 | 153493 | 15mm dia 600mm long | Each | 3.00 | 96.35 | 289.05 |
| 31 | 154010 | Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete | Metre | 6.00 | 264.69 | 1588.14 |
| 32 | 154070 | Providing and fixing 110 mm x 110 mm x 5mm PVC plain branch (single unequal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and cost of spun yarn and sand etc., complete | Each | 1.00 | 135.93 | 135.93 |
| 33 | 154100 | Providing and fixing 110 mm PVC Plain bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete | Each | 2.00 | 94.71 | 189.42 |
| 34 | 171420 | Supplying, fitting, fixing & installing including boring of 40 mm dia hand tube well assembly India Mark II having total depth of 50 metres with the following components as per IS:9301 : i) Hand pump (single acting) India mark - II galvanised as per IS : 9301 - 90. ii) Brass strainer mesh type made of long slotted medium B class G.I. pipes with 80-mesh brass wire net wrapping around the perforated pipe and jacketed by 26 / 28 SWG brass perforated sheet. 40 mm dia (2 lengths of each 1.83 m connected with G.I. socket). iii) C.I. cylinder with G.M. parts India mark - II 65 mm dia x 0.45 m long as per IS: 9301 - 90. iv) G.I. casing pipe 100 mm dia medium quality ISI marked 18 m long. v) G.I. pipe 40 mm dia medium quality ISI marked 28.35 m long. vi) 32 mm dia G.I. pipe (riser) medium quality ISI marked 17 m long. vii) 12 mm dia bright bar electro galvanised connecting rod, 3.0 m long each as per IS : 9301 of length as required. viii) all accessories as per IS: 9301 -90 such as G.I. reducing socket 100 mm x 40 mm, C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. The work also includes priming, development and testing of the yield (which should be sufficient enough) for seven days with all labour, material, tools and plants complete. ix) 40 mm dia G.I. ISI marked medium quality hanging pipe to the extent of 17 m. x) all accessories such as C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. as required . The work also includes priming & development and testing of the yield (which should be sufficient enough) for seven days with cost of labour and material, all tools and plants complete in all respect | Each | 0.13 | 51914.64 | 6489.33 |
| | | | | | Total | 108353.34 |
| Item- 014 Roadwork | | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 231010 | Preparation of subgrade by excavating earth upto 22.5cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonne capacity including making good the undulations etc. and disposal of surplus earth with lead upto 50 metres | Sqm | 11.40 | 38.41 | 437.87 |
| 2 | 231020 | Consolidation of subgrade with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and re-rolling the subgrade | Sqm | 11.40 | 1.50 | 17.10 |
| | | Providing and laying each layer of flat brick soling hand packed and joints filled with ordinary sand | | | | |

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|------------------|---|--|-------------|------------|--------------|------------------|
| 3 | 231031 | With well burnt bricks. Class 7.5 designation | Sqm | 11.40 | 182.54 | 2080.96 |
| | | Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete. | | | | |
| 4 | 231041 | Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size | cum | 3.30 | 1925.10 | 6352.83 |
| 5 | 232010 | Surface dressing on new surface with paving bitumen of grade A-90/ S-90 of approved quality using 2.25 kg of bitumen. per sqm with 1.65 cum of stone chippings 13.2mm nominal size per 100 sqm of road surface including consolidation with road roller of 6 to 8 tonne capacity etc. complete | Sqm | 10.80 | 160.58 | 1734.26 |
| | | Providing and applying tack coat using bitumen emulsion (Rapid setting) complying with IS: 8887- 1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specification | | | | |
| 6 | 233011 | On W.B.M. @ 0.4kg/ sqm | Sqm | 10.80 | 22.20 | 239.76 |
| 7 | 233012 | On bituminous surface @ 0.25kg/ sqm | Sqm | 10.80 | 15.47 | 167.08 |
| | | Providing and laying 2.5cm premix carpet surfacing with 2.25Cum and 1.12cum of stone chippings of 13.2mm size and 11.2mm size respectively and 180kg of hot bitumen per 100sqm over a tack coat including consolidation with road roller of 6 to 8tonne capacity etc. complete (tack coat to be paid separately). | | | | |
| 8 | 233031 | With paving asphalt 80/ 100 heated and then mixed with solvent at the rate of 70grams per kg. of asphalt | Sqm | 10.80 | 153.43 | 1657.04 |
| 9 | 235010 | Providing and laying seal coat of premixed fine aggregate (passing 2.36mm and retained on 180micron sieve) with bitumen using 128 kg of bitumen of grade 80/ 100 bitumen and 0.60cum of fine aggregate per 100sqm of road surface including rolling and finishing with road roller all complete. Note - This should not be operated along with Hot mix carpeting | Sqm | 10.80 | 48.09 | 519.37 |
| 10 | 237070 | Providing and laying Dry Brick (FPS bricks of class designation 7.5) edging of full brick width and half brick depth including excavation, refilling / ramming and disposal of surplus earth lead upto 50 metres | Metre | 7.20 | 85.95 | 618.84 |
| | | | | | Total | 13825.11 |
| Item- 015 | Portland Pozzolana Cement | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Supply and using cement at worksite : | | | | |
| 1 | 033063 | PPC | Tonne | 32.05 | 6400.90 | 205171.25 |
| | | | | | Total | 205171.25 |
| Item- 016 | Reinforcement and Structural Steel | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. | | | | |
| 1 | 045014 | High yield strength deformed bars | Kg | 3328.65 | 64.46 | 214564.78 |
| | | | | | Total | 214564.78 |
| Schedule | Schedule E-Construction of Single storied (Block of one unit) Type -IV Quarter in DHN and DDU | | | | | |
| Item- 011 | General Work | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |

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|----|--------|--|--------|---------|---------|-----------|
| | | Earth work in excavation as per approved drawings and dumping at embankment site or spoil heap, within railway land, including 50m lead and 1.5m lift, the lead to be measured from the centre of gravity of excavation to centre of gravity of spoil heap: the lift to be measured from natural ground level and paid for in layers of 1.5m each, including incidental work, as per specifications-in | | | | |
| 1 | 011011 | All kinds of soils | cum | 1899.00 | 93.54 | 177632.46 |
| 2 | 011040 | Extra for manual compaction of earthwork, where permitted, with rammers | cum | 1188.00 | 7.40 | 8791.20 |
| 3 | 012010 | Extra over item 011010 for excavation in foundations for buildings and bridges to cover dressing to neat dimension and plumbing sides etc. Note : Dressing under this item is payable for the total quantity of excavation in foundation and not partly | cum | 1899.00 | 10.20 | 19369.80 |
| 4 | 014010 | Dressing Surface (average excavation or filling upto 15 cm) including removing vegetation in all kind of soil. Payment against this item is to be made only if it is not included in earth work item | 10 Sqm | 324.00 | 62.30 | 2018.52 |
| 5 | 021070 | Loading/Unloading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones , rubble stones, laterite, coal, surkhi, dry mortar, sand , moorum, earth, manure or sludge, ashes, lime etc., including lead up to 50m and stacking into/from trucks, trailers or wagons | cum | 1188.00 | 38.66 | 45928.08 |
| 6 | 021090 | Leading ballast, kankar, brickbats, stone-chips, shingle, stone boulders, block kankar, pitching stones, rubble stones, laterite, coal, surkhi, dry mortar, sand, moorum, earth, manure or sludge, ashes, lime, debris, muck, malba, etc. for lead upto 25 km. Note : Lead under this item is payable when the same exceeds 500m. | cum | 1188.00 | 88.58 | 105233.04 |
| | | Providing and laying in position cement concrete of specified proportion excluding cost of cement, centering and shuttering - All works upto Plinth level : | | | | |
| 7 | 031011 | 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size) | cum | 72.00 | 2813.60 | 202579.20 |
| | | Providing and laying cement concrete, up to plinth in retaining walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc, excluding the cost of cement and of shuttering, centering. | | | | |
| 8 | 031024 | 1:1.5:3 (1cement : 1.5 sand : 3 graded stone aggregate 20mm nominal size) | cum | 2.07 | 2911.03 | 6025.83 |
| | | Providing and laying in position M 20 Grade concrete for reinforced concrete structural elements but excluding cost of centering, shuttering, reinforcement and Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge | | | | |
| 9 | 041011 | All work upto plinth level, including raft foundation of washable aprons, HS tank, pile cap, footings of FOB, and Platform shelter etc. | cum | 23.85 | 3341.60 | 79697.16 |
| 10 | 041012 | All work in buildings above plinth level upto floor two level. | cum | 36.45 | 3619.33 | 131924.58 |
| | | Centering and shuttering including strutting, propping etc. and removal of form for : | | | | |
| 11 | 042011 | Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc. | Sqm | 236.07 | 138.30 | 32648.48 |
| 12 | 042013 | Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform | Sqm | 209.34 | 230.28 | 48206.82 |
| 13 | 042014 | Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers | Sqm | 136.17 | 201.54 | 27443.70 |

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|----|--------|--|-----|--------|---------|-----------|
| 14 | 042015 | Columns, pillars, , posts and struts | Sqm | 105.75 | 282.30 | 29853.23 |
| | | Providing, hoisting and fixing in position upto floor two level M20 Grade precast RCC work including setting in cement mortar 1:3 (1 cement : 3 coarse sand) and finishing smooth with 6mm thick cement plaster 1:3 (1 cement : 3 fine sand) on exposed surfaces complete including cost of centering, shuttering, finishing, Admixtures in recommended proportion (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, excluding cost of cement and steel reinforcement, as per approved plan & direction of Engineer incharge. | | | | |
| 15 | 043015 | In slabs for drain covers, manhole covers, flue tops etc. | cum | 4.23 | 3735.88 | 15802.77 |
| | | Brick work with non-modular (FPS) bricks of class designation 7.5 in foundation and plinth in : | | | | |
| 16 | 051017 | Cement mortar 1:4 (1 cement : 4 coarse sand) | cum | 7.43 | 2880.95 | 21391.05 |
| 17 | 051018 | Cement mortar 1:6 (1 cement : 6 coarse sand) | cum | 250.02 | 2880.95 | 720295.12 |
| 18 | 051040 | Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level : | cum | 45.27 | 140.42 | 6356.81 |
| | | Half brick masonry with bricks of class designation 7.5 in foundations and plinth in : | | | | |
| 19 | 051181 | Cement mortar 1:3 (1 cement : 3 coarse sand) | Sqm | 136.44 | 340.26 | 46425.07 |
| 20 | 051190 | Extra for half Brick masonry in superstructure above plinth level upto floor two level | Sqm | 136.44 | 38.70 | 5280.23 |
| | | Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete | | | | |
| 21 | 074232 | Fixed to opening/ wooden frames with rawl plugs screws etc. | Kg | 569.70 | 84.72 | 48264.98 |
| | | Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required | | | | |
| 22 | 081412 | In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works | Kg | 464.40 | 87.45 | 40611.78 |
| | | Providing hand packed dry flat brick flooring, class designation 7.5 (FPS Bricks), excluding pointing with joints filled with sand over a bed of dry sand (ordinary)of average thickness 25 mm including ramming sub grade : | | | | |
| 23 | 091032 | Flat brick | Sqm | 439.20 | 237.25 | 104200.20 |
| 24 | 091090 | Laying cement concrete 1:2:4 (1cement: 2coarse sand: 4graded stone aggregate 20mm nominal size) of thickness 40 to 100mm as under layer of flooring | cum | 20.43 | 3198.75 | 65350.46 |
| | | Providing and fixing 1st quality ceramic tiles conforming to Group B-III (Ceramic Wall Tiles) of IS:15622 of manufacturers approved by railway in all colours, shades, and design as approved by the Engineer-in-Charge in skirting, risers of steps and dado over 12mm thick bed of cement mortar 1:3 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete | | | | |
| 25 | 095012 | 200x300 mm | Sqm | 114.98 | 615.26 | 70739.52 |
| | | Providing and fixing ceramic tiles conforming to IS:15622 of manufacturers approved by railway in all colours, shades, design and abrasion resistance class as approved by the Engineer-in-Charge in floors and landings over 20mm thick bed of cement mortar 1:4 (1cement: 3coarse sand) including pointing in white cement mixed with pigment of matching shade complete | | | | |
| 26 | 095026 | Of Group B-I-a of IS : 15622 (Vitrified tiles) of size above 400x400mm upto 600x600 mm | Sqm | 125.28 | 1016.16 | 127304.52 |

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| | | | | | | |
|------------------|------------------|---|-------------|------------|--------------|-------------------|
| | | Providing and fixing 18mm thick mirror polished, machine cut for kitchen platforms, vanity counters facias, dados and skirtings and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1cement: 4coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touchups, including rubbing, curing. etc. complete at all levels | | | | |
| 27 | 099035 | Granite Black. Area of slab over 1.0 Sqm but upto 2.0 Sqm or larger | Sqm | 2.25 | 3615.48 | 8134.83 |
| | | 12 mm cement plaster of mix - | | | | |
| 28 | 111012 | 1:6 (1cement: 6fine sand) | Sqm | 411.75 | 62.50 | 25734.38 |
| | | 15 mm cement plaster on the rough side of single or half brick wall of mix - | | | | |
| 29 | 111022 | 1:6 (1cement: 6 fine sand) | Sqm | 420.98 | 72.02 | 30318.62 |
| | | 12 mm cement plaster finished with a floating coat of neat cement of mix - | | | | |
| 30 | 111071 | 1:3 (1cement: 3fine sand) | Sqm | 135.90 | 74.66 | 10146.29 |
| | | Cement plaster to ceiling of mix - | | | | |
| 31 | 111151 | 6 mm thick 1:3 (1cement: 3 fine sand) | Sqm | 125.10 | 53.56 | 6700.36 |
| 32 | 112040 | Providing and applying plaster of Paris putty of 2mm average thickness over plastered surface to prepare the surface even and smooth complete | Sqm | 455.40 | 93.02 | 42361.31 |
| | | Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade | | | | |
| 33 | 115042 | New work (two or more coats of distemper) over and including priming coat with distemper primer | Sqm | 455.40 | 64.12 | 29200.25 |
| 34 | 115080 | Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications with two or more coats applied @ 1.25ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr/10sqm | Sqm | 500.58 | 76.35 | 38219.28 |
| | | Applying Priming Coat : | | | | |
| 35 | 121011 | With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood) | Sqm | 135.00 | 23.53 | 3176.55 |
| 36 | 121150 | Painting two coats (excluding priming coat) with chocolate, red, grey or buff ready mixed paint of approved quality, on steel or wood work | Sqm | 185.58 | 46.67 | 8661.02 |
| 37 | 252140 | Local sand / pit sand/yamuna sand for filling purposes | cum | 97.20 | 607.18 | 59017.90 |
| | | | | | Total | 2451045.40 |
| Item- 012 | Wood Work | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| | | Providing wood work in frames of doors, windows, clerestory windows and other frames and trusses, wrought, framed and fixed in position : | | | | |
| 1 | 071012 | Sal wood | cudm | 1254.60 | 78.37 | 98323.00 |
| | | Providing and fixing panelled/glazed or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S. butt hinges with necessary screws excluding, panelling/glazing which will be paid for separately | | | | |
| 2 | 072015 | Kail, venteak, pillamarudhu or locally available comparable species of good country wood (to be listed by respective railway). 35mm thick | Sqm | 21.24 | 1361.13 | 28910.40 |
| | | Providing and fixing to IS: 2202 Part-1 marked flush door shutter decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3ply veneering with vertical grains or cross bands and face veneers on both faces of shutters | | | | |

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|------------------|---------------------|--|-------------|------------|--------------|------------------|
| 3 | 072142 | 30mm thick including ISI marked stainless steel butt hinges with necessary screws | Sqm | 17.46 | 2121.41 | 37039.82 |
| | | Providing and fixing 25mm thick cup board shutters , with veneered particle board conforming to IS 3097 - Grade1 of approved make including second class teak wood lipping 25x12mm thick with necessary screws and nickel plated bright finished MS piano hinges complete | | | | |
| 4 | 073042 | With commercial veneering on both sides | Sqm | 11.70 | 2029.68 | 23747.26 |
| | | Providing and fixing ISI: 12817 marked stainless steel butt hinges with stainless steel screws etc. complete of size | | | | |
| 5 | 076013 | 75x47x1.80mm | Each | 140.00 | 30.28 | 4239.20 |
| 6 | 076014 | 50x37x1.50mm | Each | 68.00 | 19.54 | 1328.72 |
| | | Providing and fixing ISI marked aluminium butt hinges ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 7 | 078013 | 100x75x4mm | Each | 12.00 | 86.56 | 1038.72 |
| | | Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete | | | | |
| 8 | 078021 | 300x16mm | Each | 32.00 | 264.70 | 8470.40 |
| | | Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 9 | 078033 | 200x10mm | Each | 28.00 | 78.50 | 2198.00 |
| 10 | 078034 | 150x10mm | Each | 68.00 | 68.74 | 4674.32 |
| | | Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour or shade with necessary screws etc. complete | | | | |
| 11 | 078061 | 125mm | Each | 24.00 | 53.90 | 1293.60 |
| 12 | 078062 | 100mm | Each | 60.00 | 58.92 | 3535.20 |
| 13 | 078130 | Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitered at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge, EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge | Metre | 17.33 | 417.09 | 7226.08 |
| 14 | 078140 | Providing and fixing to existing door frames 30mm thick factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19mm x 19mm for styles and 15x15mm for top & bottom rails. M.S. frame shall have a coat of steel primers. M.S. frame covered with 5mm thick heat moulded PVC Foam sheet 'C channel as per drawing given in IR Standard Specifications complete in all respect | Sqm | 5.76 | 2579.79 | 14859.59 |
| | | | | | Total | 236884.31 |
| Item- 013 | Pipeline & Sanitary | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |

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|----|--------|--|-------|-------|---------|----------|
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; SDR 7.4 U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including fixing the pipe with clamps at 1.00m spacing in. This includes the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer-in-Charge. Concealed work including cutting chases and making good the walls etc. | | | | |
| 1 | 131052 | PN-16 Pipe, 20mm OD | Metre | 39.78 | 169.04 | 6724.41 |
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work | | | | |
| 2 | 131064 | PN-16 Pipe, 32mm OD (SDR-7.4) | Metre | 69.30 | 236.77 | 16408.16 |
| 3 | 131068 | PN-16 Pipe, 75mm OD (SDR-7.4) | Metre | 26.10 | 1095.56 | 28594.12 |
| | | Providing and fixing 3 layer PP-R (Poly Propylene Random copolymer) designated as PN-10 pipes, approved by CBRI and conforming to IS:15801; U V stabilized & anti-microbial fusion welded, having thermal stability for hot & cold water supply including all PP-R plain & brass threaded polypropylene random fittings including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge. External work (higher dia) | | | | |
| 4 | 131071 | PN-10 Pipe, 110mm OD (SDR-11) | Metre | 5.40 | 2169.13 | 11713.30 |
| 5 | 131072 | PN-10 Pipe, 160mm OD (SDR-11) | Metre | 15.00 | 4375.91 | 65638.65 |
| | | Providing and fixing medium grade G.I. pipes complete with G.I. fittings including trenching and refilling etc. External Work | | | | |
| 6 | 131158 | 80 mm dia. nominal bore | Metre | 6.00 | 760.35 | 4562.10 |
| | | Providing and fixing PP-R Gate Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 7 | 131182 | 32 mm Gate Valve | Each | 4.00 | 638.95 | 2555.80 |
| | | Providing and fixing PP-R Brass Ball Valve fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 8 | 131193 | 32mm Ball Valve | Each | 2.00 | 1340.62 | 2681.24 |
| | | Providing and fixing PP-R Male adopter conforming to PN-25 rating with marking on each fitting, fusion welded, having thermal stability for hot & cold water supply and testing of joints complete as per direction of engineer in charge | | | | |
| 9 | 131201 | 20mm adopter for PPR-GI connection | Each | 10.00 | 231.96 | 2319.60 |
| 10 | 131203 | 32mm adopter for PPR-GI connection | Each | 8.00 | 403.92 | 3231.36 |
| 11 | 131207 | 75mm adopter for PPR-GI connection | Each | 4.00 | 1669.85 | 6679.40 |
| | | Providing and fixing gun metal non- return valve of 80 mm nominal bore approved quality (screwed end) | | | | |
| 12 | 132101 | Horizontal | Each | 0.25 | 3962.22 | 990.56 |
| 13 | 132180 | Providing and fixing C.P. brass bib cock, 15mm nominal bore, of approved quality conforming to IS:8931 | Each | 12.00 | 409.49 | 4913.88 |
| 14 | 132210 | Providing and fixing C.P. brass stop cock, 15 mm nominal bore, (concealed) of standard design and of approved make conforming to IS:8931 | Each | 14.00 | 384.65 | 5385.10 |

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|----|--------|--|-------|---------|---------|----------|
| | | Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (new work) | | | | |
| 15 | 136131 | 15mm nominal bore | Each | 8.00 | 115.38 | 923.04 |
| 16 | 136133 | 25mm nominal bore | Each | 8.00 | 167.57 | 1340.56 |
| 17 | 136150 | Providing and placing on terrace/staging (at all heights) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank | Litre | 2000.00 | 6.57 | 13140.00 |
| | | Supplying and fixing on water tanks etc. slotted WATER indicator board with M.S. Pulley ball bearing type phosphorus bronze twisted wire, wood float etc. complete in all respect and in metric units. The rate includes fixing at all heights | | | | |
| 18 | 137062 | More than 1.25 m long | Each | 0.05 | 1573.25 | 78.66 |
| | | Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap, 10litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required | | | | |
| 19 | 151011 | White Vitreous China Orissa pattern W.C. pan of size 580x440-mm with integral type foot rests | Each | 4.00 | 3253.40 | 13013.60 |
| | | Providing and fixing wash basin with C.I./ M.S. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required | | | | |
| 20 | 151074 | white vitreous china flat back wash basin size 550x400mm with single 15mm C.P. brass pillar tap | Each | 4.00 | 1767.28 | 7069.12 |
| | | Providing and fixing Stainless Steel AISI- 304 (18/8) kitchen sink with drain board as per IS: 13983 with C.I. brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required | | | | |
| 21 | 152021 | 510x1040 mm bowl depth 250mm | Each | 2.00 | 4128.44 | 8256.88 |
| | | Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete | | | | |
| 22 | 152083 | Semi rigid pipe40mm dia. | Each | 8.00 | 96.40 | 771.20 |
| | | Providing and fixing mirror of 5.5 mm thickness of float Glass (of approved Quality) required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing | | | | |
| 23 | 152122 | Rectangular shape 453x357mm (outer dimension) | Each | 6.00 | 826.95 | 4961.70 |
| | | Providing and fixing soil, waste and vent pipes | | | | |
| 24 | 153011 | 100mm dia. Sand cast iron S&S pipe as per IS:1729 | Metre | 8.00 | 640.09 | 5120.72 |
| | | Providing and fixing single equal plain junction of required degree with access door, insertion rubber wash 3mm thick, bolts and nuts complete | | | | |
| 25 | 153091 | 100x100x100mm sand cast iron S&S as per IS-1729 | Each | 4.00 | 479.76 | 1919.04 |
| | | Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with C.P. brass screws with concealed fitting arrangement of approved quality colour and make | | | | |
| 26 | 153322 | 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms | Each | 10.00 | 524.29 | 5242.90 |
| 27 | 153330 | Providing and fixing PTMT shelf 440mm long, 124mm width and 36mm height of approved quality, colour and make weighing not less than 300gms | Each | 8.00 | 436.09 | 3488.72 |

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|---------------------------|----------------|--|-------------|------------|--------------|------------------|
| 28 | 153380 | Providing and fixing C P brass Soap dish holder having length of 138 mm, 102 mm wide, 75 mm high with concealed fittings arrangements weighing approx. 110 gms | Each | 8.00 | 189.72 | 1517.76 |
| 29 | 153390 | Providing and fixing Shower rose (C.P.) brass with swivel joint having aprox. wt. 270 gm | Each | 4.00 | 349.18 | 1396.72 |
| | | Providing and fixing PVC connector 15 mm size with non corrosive PTMT couplings in both ends | | | | |
| 30 | 153493 | 15mm dia 600mm long | Each | 8.00 | 96.35 | 770.80 |
| 31 | 154010 | Providing and fixing 110mm dia PVC soil, waste and vent pipes including jointing and cost of spun yarn and sand etc. complete | Metre | 60.00 | 264.69 | 15881.40 |
| 32 | 154070 | Providing and fixing 110 mm x 110 mm x 5mm PVC plain branch (single unequal junction) of the required degree with access door inclusive of 3mm thick bitumastic felt washer and bolts and nuts, complete, including jointing and cost of spun yarn and sand etc., complete | Each | 4.00 | 135.93 | 543.72 |
| 33 | 154100 | Providing and fixing 110 mm PVC Plain bend of the required degree with access door inclusive of 3mm thick bitumastic felt washer, bolts and nuts, complete, including jointing and cost of spun yarn and sand etc. complete | Each | 4.00 | 94.71 | 378.84 |
| 34 | 171420 | Supplying, fitting, fixing & installing including boring of 40 mm dia hand tube well assembly India Mark II having total depth of 50 metres with the following components as per IS:9301 : i) Hand pump (single acting) India mark - II galvanised as per IS : 9301 - 90. ii) Brass strainer mesh type made of long slotted medium B class G.I. pipes with 80-mesh brass wire net wrapping around the perforated pipe and jacketed by 26 / 28 SWG brass perforated sheet. 40 mm dia (2 lengths of each 1.83 m connected with G.I. socket). iii) C.I. cylinder with G.M. parts India mark - II 65 mm dia x 0.45 m long as per IS: 9301 - 90. iv) G.I. casing pipe 100 mm dia medium quality ISI marked 18 m long. v) G.I. pipe 40 mm dia medium quality ISI marked 28.35 m long. vi) 32 mm dia G.I. pipe (riser) medium quality ISI marked 17 m long. vii) 12 mm dia bright bar electro galvanised connecting rod, 3.0 m long each as per IS : 9301 of length as required. viii) all accessories as per IS: 9301 -90 such as G.I. reducing socket 100 mm x 40 mm, C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. The work also includes priming, development and testing of the yield (which should be sufficient enough) for seven days with all labour, material, tools and plants complete. ix) 40 mm dia G.I. ISI marked medium quality hanging pipe to the extent of 17 m. x) all accessories such as C.I. plug cutter 40 mm, base plate, M.S. nuts & bolts etc. as required . The work also includes priming & development and testing of the yield (which should be sufficient enough) for seven days with cost of labour and material, all tools and plants complete in all respect | Each | 0.25 | 51914.64 | 12978.66 |
| | | | | | Total | 261191.72 |
| Item- 014 Roadwork | | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| 1 | 231010 | Preparation of subgrade by excavating earth upto 22.5cm depth, dressing to camber and consolidating with power road roller of 8 to 12 tonne capacity including making good the undulations etc. and disposal of surplus earth with lead upto 50 metres | Sqm | 22.80 | 38.41 | 875.75 |
| 2 | 231020 | Consolidation of subgrade with power road roller of 8 to 12 tonne capacity including making good the undulations etc. with earth or quarry spoils etc. and re-rolling the subgrade | Sqm | 22.80 | 1.50 | 34.20 |
| | | Providing and laying each layer of flat brick soling hand packed and joints filled with ordinary sand | | | | |

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|--|----------------|--|-------------|------------|--------------|------------------|
| 3 | 231031 | With well burnt bricks. Class 7.5 designation | Sqm | 22.80 | 182.54 | 4161.91 |
| | | Providing and laying water bound macadam with specified stone aggregate, stone screening and binding material including screening, sorting, spreading to template and consolidation with power road roller of 8 to 10 tonne capacity etc. complete. | | | | |
| 4 | 231041 | Sub-base with stone aggregate 90mm to 45mm including stone screening 13.2mm size | cum | 6.60 | 1925.10 | 12705.66 |
| 5 | 232010 | Surface dressing on new surface with paving bitumen of grade A-90/ S-90 of approved quality using 2.25 kg of bitumen. per sqm with 1.65 cum of stone chippings 13.2mm nominal size per 100 sqm of road surface including consolidation with road roller of 6 to 8 tonne capacity etc. complete | Sqm | 21.60 | 160.58 | 3468.53 |
| | | Providing and applying tack coat using bitumen emulsion (Rapid setting) complying with IS: 8887- 1995, spraying the bitumen emulsion with mechanically operated spray unit, cleaning and preparing the existing road surface as per specification | | | | |
| 6 | 233011 | On W.B.M. @ 0.4kg/ sqm | Sqm | 21.60 | 22.20 | 479.52 |
| 7 | 233012 | On bituminous surface @ 0.25kg/ sqm | Sqm | 21.60 | 15.47 | 334.15 |
| | | Providing and laying 2.5cm premix carpet surfacing with 2.25Cum and 1.12cum of stone chippings of 13.2mm size and 11.2mm size respectively and 180kg of hot bitumen per 100sqm over a tack coat including consolidation with road roller of 6 to 8tonne capacity etc. complete (tack coat to be paid separately. | | | | |
| 8 | 233031 | With paving asphalt 80/ 100 heated and then mixed with solvent at the rate of 70grams per kg. of asphalt | Sqm | 21.60 | 153.43 | 3314.09 |
| 9 | 235010 | Providing and laying seal coat of premixed fine aggregate (passing 2.36mm and retained on 180micron sieve) with bitumen using 128 kg of bitumen of grade 80/ 100 bitumen and 0.60cum of fine aggregate per 100sqm of road surface including rolling and finishing with road roller all complete. Note - This should not be operated along with Hot mix carpeting | Sqm | 21.60 | 48.09 | 1038.74 |
| 10 | 237070 | Providing and laying Dry Brick (FPS bricks of class designation 7.5) edging of full brick width and half brick depth including excavation, refilling / ramming and disposal of surplus earth lead upto 50 metres | Metre | 14.40 | 85.95 | 1237.68 |
| | | | | | Total | 27650.23 |
| Item- 015 Portland Pozzolana Cement | | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| Supply and using cement at worksite : | | | | | | |
| 1 | 033063 | PPC | Tonne | 72.39 | 6400.90 | 463341.95 |
| | | | | | Total | 463341.95 |
| Item- 016 Reinforcement and Structural Steel | | | | | | |
| S No. | Item No | Description of Item | Unit | Qty | Rate | Amount |
| Supplying Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. | | | | | | |
| 1 | 045014 | High yield strength deformed bars | Kg | 8264.70 | 64.46 | 532742.56 |
| | | | | | Total | 532742.56 |

4. ELIGIBILITY CONDITIONS

Special Technical Criteria

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------|-----------------------|-----------------|---------------------|
|-------|-------------|-----------------------|-----------------|---------------------|

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| | | | | |
|-----|---|----|----|---------------------|
| 1 | The tenderer / JV firm (as per clause no. 65.15.1 of GCC) must have satisfactorily completed any of the following during last 7 years, ending last day of month previous to the one in which tender is invited: (a)Three similar works each costing not less than the amount equal to 30% of advertised value of subject work, or (b)Two similar works each costing not less than the amount equal to 40% of advertised value of subject work, or (c)One similar works each costing not less than the amount equal to 60% of advertised value of subject work | No | No | Allowed (Mandatory) |
| 1.1 | Documents to be submitted: Thetenderer shall submit the completion certificates/ certified completion certificates from the client(s) and or Photocopies of original certificates of client. (along with Form 2A) | No | No | Not Allowed |
| 1.2 | Note 1: Definition of "Similar Work":- Any work consisting of Civil engineering works involving Reinforced Cement Concrete (RCC) and Brick work and Electrical works involving wiring work for building. | No | No | Allowed (Optional) |
| 1.3 | Note 2: Separate completed works of minimum required values for each component i.e. Civil works and Electrical works shall also be considered for fulfillment of technical eligibility criteria. The estimated cost of each component i.e. Civil works and Electrical Works are as given in NIT Definition of "Similar Work" for each component is:- For Civil Engineering works: Any Civil engineering works involving Reinforced Cement Concrete (RCC) and Brickwork. For Electrical works: Any Electrical work involving wiring work for building. | No | No | Allowed (Optional) |

Special Financial Criteria

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | The contractual payments received by the tenderer/ JV firm (As per clause 65.15.2 of GCC) in the previous three financial year and the current financial year up to the date of Inviting of tender shall be at least 150% of total advertised value of tender. The tenderer must have received contractual payments in the previous three financial years and the current financial year up to the date of inviting of tender, at least 150% of the advertised value of the tender. The tenderers shall submit Certificates to this effect which may be an attested Certificate from the concerned department / client or Audited Balance Sheet duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet. | No | No | Allowed (Mandatory) |
| 1.1 | Submission Requirements: TDS certificates/Audited balance sheets and or Photocopies of TDS certificates/Audited Balance sheets clearly indicating the contractual amount received duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet Client certificate from other than Govt Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax Department of India. | No | No | Not Allowed |

5. COMPLIANCE

Commercial-Compliance

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions. | No | Yes | Allowed (Optional) |

General Instructions

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | As per Chapter III of Part-I of Tender Document | No | No | Not Allowed |

Special Conditions

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|--|-----------------------|-----------------|---------------------|
| 1 | As per Chapter-V of Part-I Tender Document | No | No | Not Allowed |

Custom

**EDFC FIELD UNIT-KOLKATA-CIVIL/EDFC
TENDER DOCUMENT**

Tender No: KKK-EN-QTR-DHN-DDU-PH-I

Closing Date/Time: 24/02/2022 15:00

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|--|-----------------------|-----------------|---------------------|
| 1 | As per Clause no 1.3.2 (b) of Chapter-III Part-I of Tender Document: Documents to be enclosed with the TECHNICAL BID: | No | No | Not Allowed |
| 1.1 | Offer letter complete: Form No.1 of tender Document | No | Yes | Allowed (Mandatory) |
| 1.2 | Offer letter complete: Tenderer's credentials in accordance with Para 1.3.13 (i), (ii) & (iii) of Part-I, Chapter-III (Preamble & General Instructions to Tenderers): Form No. 2A, 2B , 2C ,25 and 25A (Bid capacity not applicable for tender value less than 20 Cr.) along with supporting documents | No | Yes | Allowed (Mandatory) |
| 1.3 | certificates for authenticity of documents: Form No. 22 of Tender Document | No | Yes | Allowed (Mandatory) |
| 1.4 | Bid Security Declaration: Form 24 of Tender Document | No | Yes | Allowed (Mandatory) |
| 1.5 | Details of Earnest money in accordance with Para 1.3.8 and Cost of Tender Document in accordance with Para 1.3.4.3 of Part-I, Chapter-III (Preamble & General Instructions to Tenderers) | No | Yes | Allowed (Mandatory) |
| 1.6 | Written confirmation authorizing the signatory of the tender to commit the tenderer and other documents as per format as applicable, in accordance with para 1.3.6 of Part-I, Chapter-III (Preamble & General Instructions to Tenderers). | No | Yes | Allowed (Mandatory) |
| 1.7 | All documents required as per para 1.3.6.2, 1.3.6.3 of Preamble & General Instructions to Tenderers and all documents required as per para 65 and 66 of GCC. | No | Yes | Allowed (Mandatory) |

6. Documents attached with tender

| S.No. | Document Name | Document Description |
|-------|-----------------------------------|---------------------------------|
| 1 | TenderDocumentQuarterGAYA-AUG.pdf | Tender Document for DHN DDU Sec |

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: JOY KARMAKAR

Designation : DYPM/Civil/Kolkata