

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

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

Closing Date/Time: 22/02/2022 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-I-PH-I** Closing Date/Time 22/02/2022 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 Sarmatarn to Koderma station of Dhanbad division of East Central Railway under Jurisdiction of General Manager/Co-Ordination/DFCCIL/Kolkata unit		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	22/02/2022 15:00	Date Time Of Uploading Tender	01/02/2022 16:45
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	174683187.82	Tendering Section	JHARKHAND
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	08/02/2022	Are Joint Venture (JV) firms allowed to bid	Yes
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							145019702.60	Above/ Below/Par
011	Please see Item Breakup for details.				78826162.01	12.46	88647901.80	
	Description:- General work							
012	Please see Item Breakup for details.				8381328.66	15.59	9687977.80	
	Description:- Wood Work							
013	Please see Item Breakup for details.				9954143.40	13.31	11279039.89	
	Description:- Pipeline & Sanitary							
014	Please see Item Breakup for details.				1327211.13	12.46	1492581.64	
	Description:- Roadwork							
015	Please see Item Breakup for details.				15609490.78	13.47	17712089.19	
	Description:- Portland Pozzolana Cement.							
016	Please see Item Breakup for details.				15583024.51	3.96	16200112.28	
	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							12408742.28	Above/ Below/Par
011	Please see Item Breakup for details.				6856742.12	12.46	7711092.19	
	Description:- General work							
012	Please see Item Breakup for details.				698444.07	15.59	807331.50	
	Description:- Wood Work							
013	Please see Item Breakup for details.				829511.95	13.31	939919.99	
	Description:- Pipeline & Sanitary							
014	Please see Item Breakup for details.				110600.93	12.46	124381.81	
	Description:- Roadwork							
015	Please see Item Breakup for details.				1300790.90	13.47	1476007.43	

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	Description:- Portland Pozzolana Cement			
016	Please see Item Breakup for details.	1298585.38	3.96	1350009.36
	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							1551844.60	Above/ Below/Par
011	Please see Item Breakup for details.				857096.10	12.46	963890.27	
	Description:- General work							
012	Please see Item Breakup for details.				87305.50	15.59	100916.43	
	Description:- Wood Work							
013	Please see Item Breakup for details.				104346.00	13.31	118234.45	
	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.				162602.06	13.47	184504.56	
	Description:- Portland Pozzolana Cement							
016	Please see Item Breakup for details.				162323.17	3.96	168751.17	
	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							1844449.77	Above/ Below/Par
011	Please see Item Breakup for details.				1004434.05	12.46	1129586.53	
	Description:- General work							
012	Please see Item Breakup for details.				104395.69	15.59	120670.98	
	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							2218452.67	Above/ Below/Par
011	Please see Item Breakup for details.				1225522.72	12.46	1378222.85	
	Description:- General Work							
012	Please see Item Breakup for details.				118442.16	15.59	136907.29	
	Description:- Wood Work							
013	Please see Item Breakup for details.				130595.87	13.31	147978.18	
	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.				231670.97	13.47	262877.05	
	Description:- Portland Pozzolana Cement							
016	Please see Item Breakup for details.				266371.28	3.96	276919.58	
	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-Deep Boring							161200.00	Above/ Below/Par
01	011013	200.00	Hour	806.00	161200.00	AT Par	161200.00	
	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 G-Deep Boring and Hand Pump for Quarters							354313.00	Above/ Below/Par
1	011010	1.00	Each	249312.00	249312.00	AT Par	249312.00	
	Description:- Drilling and sinking of deep tube well of size 250x200 mm dia in all classes of rail including hard rock by water jet crossing, pneumatic rtg machine including supplying and sinking of stander high density polyethene (UPVS) casing pipe of size 225 mm in loose stata extended minimum 01 (one) meter inside hard rock to prevent collapsing of bore. The bottom bore have should be size 200 mm clear internal dia for a minimum depth of 100 m below ground level. The rate shall include supplying and fixing MS cap top for bore well, labour, machinery, materials consumable leading , loading- unloading lead lift in all respect complete. The rate shall also include developement of bore by compressor and testing of yield form three days continuously with minimum 5000 GPH submerible pump. The pump will be supplied by contractor for testing the yield.							
2	011020	1.00	Set	5001.00	5001.00	AT Par	5001.00	
	Description:- Supplying and fixing 50mm dia water level indicator with upto 3800mm long (as required) and 300mm wide wooden gauge with sliding arrangement.							
3	012010	2.00	Set	50000.00	100000.00	AT Par	100000.00	
	Description:- Hand Pump for Quarters							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule H-Electrical work in connection with "Construction of new quarters for shifting of utility at phase I							11124482.90	Above/ Below/Par
1	011010	428.00	Numbers	938.28	401583.84	AT Par	401583.84	
	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	858.00	Numbers	46.95	40283.10	AT Par	40283.10	
	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	1286.00	Numbers	184.86	237729.96	AT Par	237729.96	
	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) "							
	011040	539.00	Numbers	250.90	135235.10	AT Par	135235.10	

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4	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, Siemens, L&T or C&S) on surface of wall with ECC including supply and fixing of switch and ceiling rose.						
	011050	216.00	Numbers	1367.80	295444.80	AT Par	295444.80
5	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)						
	011060	323.00	Numbers	1305.30	421611.90	AT Par	421611.90
6	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 "						
	011070	535.00	Numbers	168.11	89938.85	AT Par	89938.85
7	Description:- Wiring of plug 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 5Amp plug & socket switch (make-Havells, Anchor, Legrand, L&T, Seimens or C&S)						
	011080	856.00	Numbers	247.10	211517.60	AT Par	211517.60
8	Description:- Wiring of power plug point 15 Amp with PVC insulated, sheathed and stranded single core, copper conductor FRLS 4mm2 (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)						
	011090	321.00	Numbers	760.91	244252.11	AT Par	244252.11
9	Description:- Wiring of metallic power plug with PVC insulated sheathed & stranded single core copper conductor 4 mm2 (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)						
	011100	6460.00	Metre	65.96	426101.60	AT Par	426101.60
10	Description:- Wiring of sub-Main Line with FRLS copper wire single core size 6 mm2 multistrand with PVC pipe concealed with proper excavation and refilling the wall with proper plastering. (Wire Make-Havells,anchor, Finolex, Polycab Mescab)						
	011110	4300.00	Metre	90.67	389881.00	AT Par	389881.00
11	Description:- Wiring of Main Line with FRLS copper wire single core size 10mm2 multistand with PVC pipe in concealed with proper excavation and refilling the wall with proper plastering. (Wire Make-Havells,anchor, Finolex, Polycab, Mescab)						
	011120	107.00	Numbers	3824.33	409203.31	AT Par	409203.31
12	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) "						
	011130	18.00	Numbers	9000.00	162000.00	AT Par	162000.00
13	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) "						
	011140	107.00	Numbers	254.10	27188.70	AT Par	27188.70
14	Description:- Wiring of call bell point with PVC insulated sheathed and standard single core copper conductor 1.5mm2 (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)						
	011150	107.00	Numbers	536.93	57451.51	AT Par	57451.51
15	Description:- Supply, fixing, testing and commissioning of Electronics type single phase kWh Meter with LCD display, 5A- 30A, 230V						
	011160	107.00	Numbers	360.00	38520.00	AT Par	38520.00
16	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)						
	011170	18.00	Numbers	1081.52	19467.36	AT Par	19467.36

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17	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	18.00	Numbers	9605.00	172890.00	AT Par	172890.00
18	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	18.00	Set	12556.64	226019.52	AT Par	226019.52
19	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)						
20	011200	4500.00	Metre	83.00	373500.00	AT Par	373500.00
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	011210	1500.00	Metre	312.96	469440.00	AT Par	469440.00
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*120 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.						
22	011220	4000.00	Metre	217.35	869400.00	AT Par	869400.00
22	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.						
23	011230	600.00	Metre	1254.40	752640.00	AT Par	752640.00
23	Description:- XLPE HT cable standard company circular Aluminium conductor screened 11 KV, 3 core 120 sq mm XLPE (E) insulated, insulation screened with extruded semi conducting compound in combination with copper tape inner sheathed of PVC tape galvaniz0ed steel flat strip armoured and overall PVC sheathed cable conforming to IS : 7098/II/85. The firms will have to submit type test report as per IS from NABL accredited lab along with the tender. Type test report should not be more than 10 years old on the date of bid opening.						
24	011240	150.00	Metre	1684.00	252600.00	AT Par	252600.00
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	9000.00	Metre	71.33	641970.00	AT Par	641970.00
25	Description:- Trenching, laying and back filling of XLPE cable						
26	011260	55.00	Numbers	14534.33	799388.15	AT Par	799388.15
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 brcket 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	55.00	Numbers	2608.89	143488.95	AT Par	143488.95
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	55.00	Numbers	6200.00	341000.00	AT Par	341000.00
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	55.00	Numbers	393.33	21633.15	AT Par	21633.15
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.						
	011310	1.00	Set	377233.00	377233.00	AT Par	377233.00

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31	Description:- Supply, installation, testing & commissioning of Floor mounted LT Panel (415V AC, 3Ph, 4-wire, 50 Hz with IS tolerance) consisting with MCCB-400A 4P,50KA, with Microprocessor Based release - 1 set as Incoming and MCCB-200A,4P,50KA, with TM Release - 4 Sets, MCCB-100A,4P, with TM Release - 2 Sets as outgoing. Degree of protection: IP-54, made of CRCA steel sheet (load bearing member- 2mm thick, non load bearing member - 1.6mm thick, gland plate - 3mm thick), Powder coated paint finish with necessary surface pretreatment @ 40<45@ 70 microns), Copper Busbar for phase & neutral - 50mm x 10mm size and for earth - 50mm x 6mm size, covered with PVC coloured coated heat shrinks sleeves, Bottom cable entry with glands, Approx. size of panel - 1900mm x 2275mm x 440mm) (Make: LT Panel- Authorised system house of L&T, C&S, Schneider, MCCB & its accessories - L&T, C&S, Schneider, CT, Indicating lamps, Selector switches etc - ISI Approved)						
32	011320	1.00	Numbers	763524.00	763524.00	AT Par	763524.00
	Description:- 500 KVA,11KV/415V step down outdoor type plinth mounted distribution transformer,3 phase 50HZ oil immersed naturally cooled(ONAN),core type double wound with copper conductor OFF circuit tap changer in 5 step i.e plus 5 percent ,plus 2.5percent ,N minus 2.5 percent minus 5percent high voltage connected in delta whereas low voltage side connected in star having vector grouping DYn 11 with neutral of secondry winding throught out for earthing maximum current density should be 2.5 amp.sq.mm maximum flux density 1.6 tesla having cable boxes on high volatage and low voltage sides compleate with transformer confifuring on IS:1180 Part-1. 2014 or latest, feeling of oil as per IS:355 make Mirzapur Elect. industries Ltd. ,ABB transformer, NGG Power or approved company						
33	011330	1.00	Set	18000.00	18000.00	AT Par	18000.00
	Description:- Installation, testing & commissioning of out door type 500 KVA 3-phase 11KV power transformer including making of foundation/platform (3x3x1m) by providing rail pieces on top including centrifuging of transformer oil, earthing of transformer body by 35x6mm GI strip to main earthing mat.						
34	011340	17.00	Numbers	13061.10	222038.70	AT Par	222038.70
	Description:- Supply of 2nd hand MS Rail pole 36' long.						
35	011350	17.00	Numbers	3066.67	52133.39	AT Par	52133.39
	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	17.00	Numbers	252.16	4286.72	AT Par	4286.72
	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	3.00	Kilometre	28275.48	84826.44	AT Par	84826.44
	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
	Description:- Aluminium Conductor galvanised steel wire reinforced CONDUCTOR (ACSR) SIZE IN SQ MM: 100, confirming to IS 398 Part 4						
39	011390	4.00	Kilometre	2470.02	9880.08	AT Par	9880.08
	Description:- Only stringing/Drawing and Tensioning of ACSR conductor of size , and binding of conductor with insulators .						
40	011400	250.00	Kg	75.65	18912.50	AT Par	18912.50
	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	14.00	Set	663.88	9294.32	AT Par	9294.32
	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	1400.00	Kg	100.33	140462.00	AT Par	140462.00
	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.						
43	011430	2.00	Set	6235.00	12470.00	AT Par	12470.00
	Description:- Supply & fixing of Gang Operated Switch vertical type, triple pole air brake outdoor type with dropout fuse unit 400A capacity, suitable for 11KV, complete with 3-insulator, mounted type on suitable base complete with operating rod and locking arrangement including supply and fixing of padlock of Godrej make with key						
	011440	1.00	Set	55968.67	55968.67	AT Par	55968.67

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44	Description:- Installation, testing commissioning & Supply of Submersible Pump set 3000 GPH x 250ft head (5 star) Similar to KSB Model UQD+UMA 1/G150, 182/10+6/22 (S/D), Motor Rating- 7.5 HP, 5.5KW, 3-phase, including installation, testing, commissioning and lowering of the pump in the bore well with clamping of pump & motor with black steel pipe by tag welding and clamping of submersible cable through out the length of the lowering (Acceptable Make: Shakti PUMPS (INDIA) Ltd. /KSB/CRI						
45	011450	1.00	Set	42333.33	42333.33	AT Par	42333.33
	Description:- "Installation, testing ,commissioning & Supply of 20HP Automatic Star/Delta starter with (1)Pump protection relay(C & S mpro-200@ 45<45@E) (2)Programmable time switch(Automatic ON/OFF purpose) (3)LVM with SPP and phase Seq. complete with other electrical accessories e.g voltmeter(0-500V), Ammeter(0-50A),selector switches etc. including wiring. (Make- L&T, Siemens, C&S) "						
46	011460	50.00	Metre	479.05	23952.50	AT Par	23952.50
	Description:- Supply of GI pipe 2" dia heavy gauge 'C' class, with socket including fixing (Acceptable make: Tata, Jindal, Bansal)						
47	011470	60.00	Metre	157.29	9437.40	AT Par	9437.40
	Description:- Installation, testing commissioning & Supply of submersible copper cable, insulated, sheathed, flat type 3-core 4mm2, Water Proof conforming to IS: 694 (Make: Polycab/Havells/Finolex)						
48	011480	2.00	Numbers	265.50	531.00	AT Par	531.00
	Description:- Supply of GI long bends 2" dia, heavy gauge 'C' class, 90 degree, including fixing (Make: TATA/JINDAL/BANSAL)						
49	011490	2.00	Numbers	941.67	1883.34	AT Par	1883.34
	Description:- Supply & fixing of non-return valve/check valve 2"/2.5" dia (Make: TATA/JINDAL/BANSAL)						
50	011500	2.00	Numbers	787.33	1574.66	AT Par	1574.66
	Description:- Supply of sluice valve 2"/2.5" dia including fixing (Acceptable make: ISI approved)						
51	011510	6.00	Numbers	7028.93	42173.58	AT Par	42173.58
	Description:- Making of Earthing pit 15' deep with Copper plate of size 600 mm x 600 mm x 3.15 mm with its top from ground level complete with 20 mm dia GI pipe fitted with alternate layers charcoal and salt at least 150 mm thick around, funnel for watering and one earthing lead 20 mm x 5 mm copper strip in GI pipe 30 mm medium gauge, masonry/housing with CI hinged cover plate with locking arrangement complete in all respect. (Copper strip up to ground level to be supplied).						
52	011520	107.00	Numbers	4106.00	439342.00	AT Par	439342.00
	Description:- Provision of Earthing as per IS 3043 (1987) or latest						
53	011530	20.00	Numbers	373.50	7470.00	AT Par	7470.00
	Description:- "Supply of HT Pin insulator 11 KV, complete with metallic and non-metallic parts, including nuts, bolts and washers. (Accepted Makes: Mayank/ Bharat/Jayshree) ."						
54	011540	12.00	Numbers	543.09	6517.08	AT Par	6517.08
	Description:- Supply of HT disc insulators,11 KV complete with metallic parts with fitting (Accepted Makes: Mayank/ Bharat/Jayshree)						
55	011550	75.00	Numbers	117.38	8803.50	AT Par	8803.50
	Description:- Supply & fixing of 'DANGER' Board complete with nut & bolts written for 33KV/11KV						
56	011560	1.00	Set	2745.63	2745.63	AT Par	2745.63
	Description:- Supply of 5 KA lightning Arrester (Line type) suitable for 11KV line as per IS: 3070 latest including testing and commissioning.						
57	011570	50.00	Numbers	589.67	29483.50	AT Par	29483.50
	Description:- Supply of GI pipe 4" dia, Medium gauge 'B' class including fixing with suitable clampnuts, bolts etc as per requirement						
58	011580	2.00	Set	6900.00	13800.00	AT Par	13800.00
	Description:- Supply, making,erection, testing and commissioning of cable indetermination with heat shrinkable jointing kit (Out door) complete with all accessories includindng lugs suitable for 3 core120 sq.mm XLPE aluminium conductor cable of 11 KV grade etc (Make: 'm' Seal, Cab Seal, Yamuna Gases Chem. Ltd.)						
59	011590	47.00	Numbers	393.29	18484.63	AT Par	18484.63
	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

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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	27151.20	93.54	2539723.25
2	011040	Extra for manual compaction of earthwork, where permitted, with rammers	cum	22852.80	7.40	169110.72
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	5875.20	10.20	59927.04
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	4536.00	62.30	28259.28
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	45705.60	38.66	1766978.50
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	45705.60	88.58	4048602.05
		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	2764.80	2813.60	7779041.28
		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	75.60	2911.03	220073.87
		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	648.00	3341.60	2165356.80
10	041012	All work in buildings above plinth level upto floor two level.	cum	1144.80	3619.33	4143408.98
		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	3326.40	138.30	460041.12
12	042013	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	7776.00	230.28	1790657.28

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13	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	2268.00	201.54	457092.72
14	042015	Columns, pillars, , posts and struts	Sqm	2570.40	282.30	725623.92
		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	162.00	3735.88	605212.56
16	046010	Extra for RCC work in superstructure above floor two level for every floor or part thereof.	cum	381.60	295.30	112686.48
		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	237.60	2880.95	684513.72
18	051018	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	8989.92	2880.95	25899510.02
19	051040	Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level :	cum	1123.20	140.42	157719.74
20	051050	Extra for brick work in superstructure beyond second floor level for every 3m or part thereof :	cum	561.60	268.14	150587.42
		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	4924.80	340.26	1675712.45
22	051190	Extra for half Brick masonry in superstructure above plinth level upto floor two level	Sqm	3283.20	38.70	127059.84
23	051200	Extra for half brick masonry in superstructure above floor two level for every floor or part thereof.	Sqm	1641.60	14.30	23474.88
		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				
24	074232	Fixed to opening/ wooden frames with rawl plugs screws etc.	Kg	16740.00	84.72	1418212.80
		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	20217.60	87.45	1768029.12
		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	13521.60	237.25	3207999.60
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	704.16	3198.75	2252431.80
		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	3542.40	615.26	2179497.02

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		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	3672.00	1016.16	3731339.52
		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	64.80	3615.48	234283.10
		12 mm cement plaster of mix -				
31	111012	1:6 (1cement: 6fine sand)	Sqm	14515.20	62.50	907200.00
		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	14817.60	72.02	1067163.55
		12 mm cement plaster finished with a floating coat of neat cement of mix -				
33	111071	1:3 (1cement: 3fine sand)	Sqm	3931.20	74.66	293503.39
		Cement plaster to ceiling of mix -				
34	111151	6 mm thick 1:3 (1cement: 3 fine sand)	Sqm	3974.40	53.56	212868.86
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	17733.60	93.02	1649579.47
		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	17733.60	64.12	1137078.43
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	16459.20	76.35	1256659.92
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	2880.00	19.76	56908.80
		Extra for plastering done on moulding cornices or architraves including neat finish to line and level				
39	116131	In one coat.	Sqm	1440.00	150.31	216446.40
		Applying Priming Coat :				
40	121011	With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood)	Sqm	4017.60	23.53	94534.13
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	5927.04	46.67	276614.96
42	252140	Local sand / pit sand/yamuna sand for filling purposes	cum	1771.20	607.18	1075437.22
					Total	78826162.01
Item- 012	Wood Work					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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		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	45921.60	78.37	3598875.79
		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	652.32	1361.13	887892.32
		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	669.60	2121.41	1420496.14
		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	280.80	2029.68	569934.14
		Providing and fixing ISI: 12817 marked stainless steel butt hinges with stainless steel screws etc. complete of size				
5	076013	75x47x1.80mm	Each	5376.00	30.28	162785.28
6	076014	50x37x1.50mm	Each	2592.00	19.54	50647.68
		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	576.00	86.56	49858.56
		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	1056.00	264.70	279523.20
		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	480.00	78.50	37680.00
10	078034	150x10mm	Each	2304.00	68.74	158376.96
		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	960.00	53.90	51744.00
12	078062	100mm	Each	2496.00	58.92	147064.32
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	820.80	417.09	342347.47

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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	241.92	2579.79	624102.80
					Total	8381328.66
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	1209.60	169.04	204470.78
		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	1641.60	236.77	388681.63
3	131068	PN-16 Pipe, 75mm OD (SDR-7.4)	Metre	1036.80	1095.56	1135876.61
		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	259.20	2169.13	562238.50
5	131072	PN-10 Pipe, 160mm OD (SDR-11)	Metre	720.00	4375.91	3150655.20
		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	288.00	760.35	218980.80
		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	192.00	638.95	122678.40
		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	96.00	1340.62	128699.52

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		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	384.00	231.96	89072.64
10	131203	32mm adopter for PPR-GI connection	Each	288.00	403.92	116328.96
11	131207	75mm adopter for PPR-GI connection	Each	192.00	1669.85	320611.20
		Providing and fixing gun metal non- return valve of 80 mm nominal bore approved quality (screwed end)				
12	132101	Horizontal	Each	12.00	3962.22	47546.64
13	132180	Providing and fixing C.P. brass bib cock, 15mm nominal bore, of approved quality conforming to IS:8931	Each	384.00	409.49	157244.16
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	384.00	384.65	147705.60
		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	288.00	115.38	33229.44
16	136133	25mm nominal bore	Each	288.00	167.57	48260.16
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	86400.00	6.57	567648.00
		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	2.40	1573.25	3775.80
		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	96.00	3253.40	312326.40
		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	192.00	1767.28	339317.76
		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	96.00	4128.44	396330.24
		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	288.00	96.40	27763.20
		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	192.00	826.95	158774.40

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		Providing and fixing soil, waste and vent pipes				
24	153011	100mm dia. Sand cast iron S&S pipe as per IS:1729	Metre	192.00	640.09	122897.28
		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	96.00	479.76	46056.96
		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	192.00	524.29	100663.68
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	192.00	436.09	83729.28
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	288.00	189.72	54639.36
29	153390	Providing and fixing Shower rose (C.P.) brass with swivel joint having aprox. wt. 270 gm	Each	96.00	349.18	33521.28
		Providing and fixing PVC connector 15 mm size with non corrosive PTMT couplings in both ends				
30	153493	15mm dia 600mm long	Each	288.00	96.35	27748.80
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	576.00	264.69	152461.44
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	96.00	135.93	13049.28
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	192.00	94.71	18184.32

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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	12.00	51914.64	622975.68
					Total	9954143.40
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	1094.40	38.41	42035.90
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	1094.40	1.50	1641.60
		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	1094.40	182.54	199771.78
		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	316.80	1925.10	609871.68
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	1036.80	160.58	166489.34
		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	1036.80	22.20	23016.96
7	233012	On bituminous surface @ 0.25kg/ sqm	Sqm	1036.80	15.47	16039.30

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		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	1036.80	153.43	159076.22
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	1036.80	48.09	49859.71
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	691.20	85.95	59408.64
					Total	1327211.13
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	2438.64	6400.90	15609490.78
					Total	15609490.78
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	241747.20	64.46	15583024.51
					Total	15583024.51
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	4525.20	93.54	423287.21
2	011040	Extra for manual compaction of earthwork, where permitted, with rammers	cum	3808.80	7.40	28185.12
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	979.20	10.20	9987.84
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	756.00	62.30	4709.88

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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	3808.80	38.66	147248.21
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	3808.80	88.58	337383.50
		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	230.40	2813.60	648253.44
		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	6.30	2911.03	18339.49
		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	54.00	3341.60	180446.40
10	041012	All work in buildings above plinth level upto floor two level.	cum	95.40	3619.33	345284.08
		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	277.20	138.30	38336.76
12	042013	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	648.00	230.28	149221.44
13	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	189.00	201.54	38091.06
14	042015	Columns, pillars, , posts and struts	Sqm	214.20	282.30	60468.66
		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	13.50	3735.88	50434.38
		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	19.80	2880.95	57042.81
17	051018	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	749.16	2880.95	2158292.50

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18	051040	Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level :	cum	140.40	140.42	19714.97
		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	410.40	340.26	139642.70
20	051190	Extra for half Brick masonry in superstructure above plinth level upto floor two level	Sqm	410.40	38.70	15882.48
		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	1395.00	84.72	118184.40
		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				
22	081412	In gratings, frames, guard bar, ladders, railings, brackets, gates and similar works	Kg	1684.80	87.45	147335.76
		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	1126.80	237.25	267333.30
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	58.68	3198.75	187702.65
		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	295.20	615.26	181624.75
		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	306.00	1016.16	310944.96
		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	5.40	3615.48	19523.59
		12 mm cement plaster of mix -				
28	111012	1:6 (1cement: 6fine sand)	Sqm	1209.60	62.50	75600.00
		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	1234.80	72.02	88930.30
		12 mm cement plaster finished with a floating coat of neat cement of mix -				

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30	111071	1:3 (1cement: 3fine sand)	Sqm	327.60	74.66	24458.62
		Cement plaster to ceiling of mix -				
31	111151	6 mm thick 1:3 (1cement: 3 fine sand)	Sqm	331.20	53.56	17739.07
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	1477.80	93.02	137464.96
		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	1477.80	64.12	94756.54
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	1371.60	76.35	104721.66
		Applying Priming Coat :				
35	121011	With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood)	Sqm	334.80	23.53	7877.84
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	493.92	46.67	23051.25
37	252140	Local sand / pit sand/yamuna sand for filling purposes	cum	295.20	607.18	179239.54
					Total	6856742.12
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	3826.80	78.37	299906.32
		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	54.36	1361.13	73991.03
		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	55.80	2121.41	118374.68
		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	23.40	2029.68	47494.51
		Providing and fixing ISI: 12817 marked stainless steel butt hinges with stainless steel screws etc. complete of size				
5	076013	75x47x1.80mm	Each	448.00	30.28	13565.44
6	076014	50x37x1.50mm	Each	216.00	19.54	4220.64
		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	48.00	86.56	4154.88

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		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	88.00	264.70	23293.60
		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	40.00	78.50	3140.00
10	078034	150x10mm	Each	192.00	68.74	13198.08
		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	80.00	53.90	4312.00
12	078062	100mm	Each	208.00	58.92	12255.36
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	68.40	417.09	28528.96
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	20.16	2579.79	52008.57
					Total	698444.07
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	100.80	169.04	17039.23
		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	136.80	236.77	32390.14
3	131068	PN-16 Pipe, 75mm OD (SDR-7.4)	Metre	86.40	1095.56	94656.38

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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	21.60	2169.13	46853.21
5	131072	PN-10 Pipe, 160mm OD (SDR-11)	Metre	60.00	4375.91	262554.60
		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	24.00	760.35	18248.40
		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	16.00	638.95	10223.20
		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	8.00	1340.62	10724.96
		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	32.00	231.96	7422.72
10	131203	32mm adopter for PPR-GI connection	Each	24.00	403.92	9694.08
11	131207	75mm adopter for PPR-GI connection	Each	16.00	1669.85	26717.60
		Providing and fixing gun metal non- return valve of 80 mm nominal bore approved quality (screwed end)				
12	132101	Horizontal	Each	1.00	3962.22	3962.22
13	132180	Providing and fixing C.P. brass bib cock, 15mm nominal bore, of approved quality conforming to IS:8931	Each	32.00	409.49	13103.68
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	32.00	384.65	12308.80
		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	24.00	115.38	2769.12
16	136133	25mm nominal bore	Each	24.00	167.57	4021.68
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	7200.00	6.57	47304.00
		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	0.20	1573.25	314.65

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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	8.00	3253.40	26027.20
		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	16.00	1767.28	28276.48
		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	8.00	4128.44	33027.52
		Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete				
22	152083	Semi rigid pipe 40mm dia.	Each	24.00	96.40	2313.60
		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	16.00	826.95	13231.20
		Providing and fixing soil, waste and vent pipes				
24	153011	100mm dia. Sand cast iron S&S pipe as per IS:1729	Metre	16.00	640.09	10241.44
		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	8.00	479.76	3838.08
		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	16.00	524.29	8388.64
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	16.00	436.09	6977.44
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	24.00	189.72	4553.28
29	153390	Providing and fixing Shower rose (C.P.) brass with swivel joint having aprox. wt. 270 gm	Each	8.00	349.18	2793.44
		Providing and fixing PVC connector 15 mm size with non corrosive PTMT couplings in both ends				
30	153493	15mm dia 600mm long	Each	24.00	96.35	2312.40
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	48.00	264.69	12705.12

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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	8.00	135.93	1087.44
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	16.00	94.71	1515.36
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	1.00	51914.64	51914.64
					Total	829511.95
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	91.20	38.41	3502.99
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	91.20	1.50	136.80
		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	91.20	182.54	16647.65
		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	26.40	1925.10	50822.64

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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	86.40	160.58	13874.11
		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	86.40	22.20	1918.08
7	233012	On bituminous surface @ 0.25kg/ sqm	Sqm	86.40	15.47	1336.61
		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	86.40	153.43	13256.35
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	86.40	48.09	4154.98
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	57.60	85.95	4950.72
					Total	110600.93
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	203.22	6400.90	1300790.90
					Total	1300790.90
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	20145.60	64.46	1298585.38
					Total	1298585.38
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
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	565.65	93.54	52910.90

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2	011040	Extra for manual compaction of earthwork, where permitted, with rammers	cum	476.10	7.40	3523.14
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	122.40	10.20	1248.48
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	94.50	62.30	588.74
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	476.10	38.66	18406.03
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	476.10	88.58	42172.94
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	28.80	2813.60	81031.68
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	0.79	2911.03	2293.89
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	6.75	3341.60	22555.80
10	041012	All work in buildings above plinth level upto floor two level.	cum	11.93	3619.33	43160.51
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	34.65	138.30	4792.10
12	042013	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	81.00	230.28	18652.68
13	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	23.63	201.54	4761.38
14	042015	Columns, pillars, , posts and struts	Sqm	26.78	282.30	7558.58

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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	1.69	3735.88	6306.17
		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	93.65	2880.95	269786.56
18	051040	Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level :	cum	17.55	140.42	2464.37
		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	51.30	340.26	17455.34
20	051190	Extra for half Brick masonry in superstructure above plinth level upto floor two level	Sqm	51.30	38.70	1985.31
		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	174.38	84.72	14773.05
		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	140.85	237.25	33416.66
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	7.34	3198.75	23462.83
		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	36.90	615.26	22703.09
		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	38.25	1016.16	38868.12

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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	0.68	3615.48	2440.45
		12 mm cement plaster of mix -				
28	111012	1:6 (1cement: 6fine sand)	Sqm	151.20	62.50	9450.00
		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	154.35	72.02	11116.29
		12 mm cement plaster finished with a floating coat of neat cement of mix -				
30	111071	1:3 (1cement: 3fine sand)	Sqm	40.95	74.66	3057.33
		Cement plaster to ceiling of mix -				
31	111151	6 mm thick 1:3 (1cement: 3 fine sand)	Sqm	41.40	53.56	2217.38
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	184.73	93.02	17183.12
		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	184.73	64.12	11844.57
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	171.45	76.35	13090.21
		Applying Priming Coat :				
35	121011	With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood)	Sqm	41.85	23.53	984.73
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	61.74	46.67	2881.41
37	252140	Local sand / pit sand/yamuna sand for filling purposes	cum	36.90	607.18	22404.94
					Total	857096.10
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	478.35	78.37	37488.29
		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	6.80	1361.13	9248.88
		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	6.98	2121.41	14796.83
		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	2.93	2029.68	5936.81
		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	27.00	19.54	527.58
		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	11.00	264.70	2911.70
		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	5.00	78.50	392.50
10	078034	150x10mm	Each	24.00	68.74	1649.76
		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	10.00	53.90	539.00
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	87305.50
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	12.60	169.04	2129.90
		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	17.10	236.77	4048.77
3	131068	PN-16 Pipe, 75mm OD (SDR-7.4)	Metre	10.80	1095.56	11832.05
		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	104346.00
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	25.40	6400.90	162602.06
					Total	162602.06
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	2518.20	64.46	162323.17
					Total	162323.17
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	10512.29
		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	2764.59
		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	25262.58
		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	43552.62

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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	3175.29
		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	3538.99
37	252140	Local sand / pit sand/yamuna sand for filling purposes	cum	43.74	607.18	26558.05
					Total	1004434.05
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	47028.27
		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	12032.39
		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	104395.69
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	949.50	93.54	88816.23
2	011040	Extra for manual compaction of earthwork, where permitted, with rammers	cum	594.00	7.40	4395.60
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	949.50	10.20	9684.90
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	162.00	62.30	1009.26
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	594.00	38.66	22964.04
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	594.00	88.58	52616.52
		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	36.00	2813.60	101289.60
		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	1.04	2911.03	3012.92
		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	11.93	3341.60	39848.58
10	041012	All work in buildings above plinth level upto floor two level.	cum	18.23	3619.33	65962.29
		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	118.04	138.30	16324.24
12	042013	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	104.67	230.28	24103.41
13	042014	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	68.09	201.54	13721.85

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14	042015	Columns, pillars, , posts and struts	Sqm	52.88	282.30	14926.61
		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	2.12	3735.88	7901.39
		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	3.71	2880.95	10695.53
17	051018	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	125.01	2880.95	360147.56
18	051040	Extra over item 051010 & 051020 for brick work in superstructure beyond plinth level upto floor two level :	cum	22.64	140.42	3178.41
		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	68.22	340.26	23212.54
20	051190	Extra for half Brick masonry in superstructure above plinth level upto floor two level	Sqm	68.22	38.70	2640.11
		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	284.85	84.72	24132.49
		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	232.20	87.45	20305.89
		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	219.60	237.25	52100.10
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	10.22	3198.75	32675.23
		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	57.49	615.26	35369.76
		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	62.64	1016.16	63652.26

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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	1.13	3615.48	4067.42
		12 mm cement plaster of mix -				
28	111012	1:6 (1cement: 6fine sand)	Sqm	205.88	62.50	12867.19
		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	210.49	72.02	15159.31
		12 mm cement plaster finished with a floating coat of neat cement of mix -				
30	111071	1:3 (1cement: 3fine sand)	Sqm	67.95	74.66	5073.15
		Cement plaster to ceiling of mix -				
31	111151	6 mm thick 1:3 (1cement: 3 fine sand)	Sqm	62.55	53.56	3350.18
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	227.70	93.02	21180.65
		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	227.70	64.12	14600.12
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	250.29	76.35	19109.64
		Applying Priming Coat :				
35	121011	With ready mixed pink or grey primer of approved brand and manufacture on woodwork (hard and soft wood)	Sqm	67.50	23.53	1588.28
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	92.79	46.67	4330.51
37	252140	Local sand / pit sand/yamuna sand for filling purposes	cum	48.60	607.18	29508.95
					Total	1225522.72
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	627.30	78.37	49161.50
		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	10.62	1361.13	14455.20
		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	8.73	2121.41	18519.91
		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	70.00	30.28	2119.60
6	076014	50x37x1.50mm	Each	34.00	19.54	664.36
		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	16.00	264.70	4235.20
		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	14.00	78.50	1099.00
10	078034	150x10mm	Each	34.00	68.74	2337.16
		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	30.00	58.92	1767.60
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	8.66	417.09	3613.04
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	2.88	2579.79	7429.80
					Total	118442.16
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	19.89	169.04	3362.21
		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	34.65	236.77	8204.08
3	131068	PN-16 Pipe, 75mm OD (SDR-7.4)	Metre	13.05	1095.56	14297.06
		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	5.00	231.96	1159.80
10	131203	32mm adopter for PPR-GI connection	Each	4.00	403.92	1615.68
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	6.00	409.49	2456.94
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	7.00	384.65	2692.55

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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	4.00	115.38	461.52
16	136133	25mm nominal bore	Each	4.00	167.57	670.28
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	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	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	4.00	96.40	385.60
		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	3.00	826.95	2480.85
		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	5.00	524.29	2621.45
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	4.00	189.72	758.88
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	4.00	96.35	385.40
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	30.00	264.69	7940.70
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	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	130595.87
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	36.19	6400.90	231670.97
					Total	231670.97
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	4132.35	64.46	266371.28
					Total	266371.28

4. ELIGIBILITY CONDITIONS

Important : All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

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Special Technical Criteria

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

Important : All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

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

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

Custom

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 (Packet- A):	No	Yes	Allowed (Mandatory)
1.1	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	TenderDocumentQuarterKQR-HZB.pdf	Tender Document for Dhanbad sec1

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