



इरकॉन इंटरनेशनल लिमिटेड

नवरत्न कम्पनी
(भारत सरकार का उपक्रम)

IRCON INTERNATIONAL LIMITED

NAVRATNA COMPANY
(A Govt. of India Undertaking)

An integrated Engineering and Construction Company



सोन भवन (प्रथम तल), दारोगा प्रसाद राय पथ, पटना - 800 001, फोन : 0612-2506446, 2506543
Sone Bhawan (First Floor), Daroga Prasad Rai Path, Patna - 800 001, Phone : 0612-2506446, 2506543

No. IRCON/2068/HJP-BCA/Admin. Bldg./CSR/

Date 03.07.2025

ORIGINAL

To,
M/s Aagraj Infrastructure Pvt. Ltd.,
Head Office: 37A/10B, Mulla Campus,
Stainely Road, Prayagraj (U.P.)- 211002
Email: info@agrainfra.com

Letter of Acceptance

Sub: - "Construction of Administrative Building, Cafeteria, Extension and widening of existing road, construction of Retaining wall, Boundary wall and other works associated with development of Track Machine depot at CHAK SIKANDAR Railway Station in HAJIPUR-BACHWARA RAIL DOUBLING PROJECT of Sonapur Division of East Central Railway in state of Bihar."

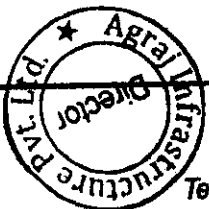
Ref: 1. Tender No.: IRCON/2068/HJP-BCA/CSR/Building/2023/01, dated 29.04.2025
2. Technical Bid open on 21.05.2025.
3. Financial Bid open on 25.06.2025.
4. Your online offer submission Date 20.05.2025

Dear Sir,

With reference to the above this is to inform you that your offer for the above subjected work has been accepted by the competent authority at a total value of Rs. 9,08,75,298.65/- (Rupees Nine Corers Eight Lakh Seventy-Five Thousand Two Hundred Ninety-Eight and Paise Sixty-Five only) inclusive of GST @18%, which is 16.12% below than the estimated cost of work Rs. 10,83,39,650/- inclusive of GST @18% as per BOQ item enclosed at Annexure - "A", on the following terms and conditions as stipulated in the tender Documents are as given below.

Terms and Conditions: -

1. The contractor shall be expected to mobilize on subject work and commence the same within 7 days from the date of issue of Letter of Acceptance (LOA).
2. The work shall be completed with 11 (eleven) months from the date of issue of Letter of Acceptance (LOA).
3. The payment shall be made by IRCON to you as per the relevant clause of tender.



पंजिकृत कार्यालय : सी-4, डिस्ट्रीक्ट सेन्टर, साकेत, नई दिल्ली . 110017, भारत
Registered Office : C-4 District Centre, Saket, New Delhi - 110017 (INDIA)
Tel.: +91-11-29565666 Fax : +91-11-26854000 : E-mail : info@ircon.org : Web. : www.ircon.org
CIN : L45203DL1976GOI008171



4. The above rate/cost is inclusive of all cost of materials, transportation and royalty, octroi, labour cess and other taxes imposed by Central/State Govt. and local bodies including incidental charges.
5. You are requested to furnish performance guarantee in the form of irrevocable Bank Guarantee (BG) on the proforma annexed as **Annexure-II** of tender document from any scheduled bank for an amount of 5% (Five percent) of the contract value (Rs. 10,83,39,650/-) (including GST and all other duties and taxes) for an amount of **Rs. 45,43,765.00/- (Rupees Forty-Five Lakhs Forty-Three Thousand Seven hundred & Sixty-Five only)** in terms of clause no. 38.0 of SCC. This guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that.
6. You are requested to submit insurance policies in terms of clause no. 18 of Special condition of contract
7. The aforesaid offer is based on your acceptance to all conditions of the above tender without any deviations.
8. You are requested to execute the Contract Agreement within 28 days of issue of this letter as per clause no. 15.3 (iv) Special Conditions of Contract. You are also requested to arrange stamp duty paper of the requisite value as per the prevailing laws for signing of the contract agreement.
9. All other terms and condition shall be as per tender documents and corrigendum's which is an integral part of this contract and shall be binding by you.
10. The letter will constitute a legal binding between IRCON International Limited and M/s Agraj Infrastructure Pvt. Ltd, 37A/10B, Mulla Campus, Stainely Road, Prayagraj (U.P.) – 211002 till completion of defect liability period.
11. The "Letter of Acceptance" is being sent in "Duplicate" marked "Original" with an advice to return the "Original" one duly signed and stamped as a token of your acceptance.
12. For further instructions, please contact to the office of the undersigned at Sone Bhawan, Patna.

Thanking you,
Yours faithfully

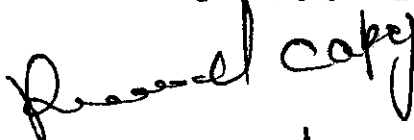
For and on the behalf of IRCON INTERNATIONAL LIMITED


(N. K. Singh)
GM/Civil/PH/HJP-BCA

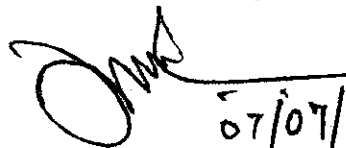
Copy to: -

- | | |
|----------------------------------|-------------------------------|
| 1. PD/Patna/IRCON | - for kind information please |
| 2. Add. General Manager/Finance. | - for necessary action |
| 3. AGM/Civil/Hajipur- Bachwara | - for necessary action |

Encl: Bill of Quantity (BOQ)






07/07/95

Bill of Quantities (BOQ)

der No. IRCON/2068/HUP-BCA/CSR/Building/2025/01 Dated 29/04/2025

Name of Work Construction of administrative building, cafeteria and other works associated with development of track machine depot at Chak Sikander railway station in Hajipur-Bachwara rail doubling project of Sonpur Division of East Central Railway in State of Bihar

TENDER BOQ.

Sl. No.	Ref DSR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
A	2.0	EARTH WORKS					
1	2.2	Earth work by mechanical / manual means in rough excavation, banking excavated earth in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50 m and for all lift :					
1	2.2.1	All kinds of soil	Cum.	2227.30	311.55	693917.20	
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as directed by Engineer-in-charge.					
1	2.6.1	All kinds of soil	Cum.	4655.79	139.89	651297.67	
3	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.					
1	2.8.1	All kind of soil	Cum.	107.82	205.15	22119.85	
4	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 and for all lift.	Cum.	3592.37	154.47	554929.83	
5	2.25A	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation etc. complete for all lift.	Cum.	428.06	552.08	236325.40	
6	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum.	148.42	1673.81	248426.16	
7	2.32	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	Cum.	7000.00	7.05	49355.93	
8	2.34	Supplying chemical emulsion in sealed containers including delivery as specified.					
1	2.34.1	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	litre	520.25	185.02	96285.07	
9	2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :					
	2.35.2	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.:					
1	2.35.2.1	With chlorpyrifos/Lindane E.C. 20% with 1% concentration	metre	376.00	42.13	15839.80	
10		Anti termite treatment					
	2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :					
	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 : 2 (1 cement : 2 Coarse sand) to match the existing floor:					
1	2.35.3.1	With Chlorpyrifos/Lindane EC 20% with 1% concentration	Sqm	520.35	244.36	127155.02	
B	4.0	CONCRETE WORKS					
1	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :					
1	4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum.	7.46	6209.32	46321.54	
11	4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum.	254.01	6131.93	1557572.10	
2	4.11	Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources).	Sqm	178.70	390.72	69821.72	
3	4.12	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per 50 kg cement	44.92	14.31	642.58	
4	4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7 kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	175.45	115.19	20209.46	
5	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	125.19	590.55	73931.06	
C	5.0	REINFORCED CEMENT CONCRETE WORKS					
1	5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor slab level, excluding cost of centering, shuttering, finishing and reinforcement :					
1	5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	0.52	8553.59	4447.67	

Sl. No.	Part DBR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
2	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	25.02	9067.89	226878.60	
3	5.9	Centring and shuttering including strutting, propping etc. and removal of form for.					
4	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	561.33	309.07	173489.03	
5	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	2951.87	664.00	1960041.68	
6	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	985.50	730.80	720200.06	
7	5.9.4	Shelves (Cast in situ)	Sqm	24.54	730.80	17933.75	
8	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	1378.13	580.38	799840.96	
9	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	1290.67	757.64	977857.53	
10	5.9.7	Stairs, (excluding landings) except spiral-staircases.	Sqm	59.69	602.88	35985.99	
11	5.9.14	Extra for shuttering in circular work (20% of respective centering and shuttering items)	Sqm	8.02	151.53	1215.23	
12	5.9.15	Small lintels not exceeding 1.5 m clear span, mouldings as in cornices, window sills, string, courses, bands, copings, bed plates, anchor blocks and the like.	Sqm	44.30	309.07	13691.70	
13	5.9.16	Edges of slabs and breaks in floors and walls					
14	5.9.16.1	Under 20 cm wide	metre	327.61	164.36	53847.42	
15	5.9.19	Weather shade, Chajjas, corbels etc. including edges	Sqm	26.15	749.59	19601.86	
16	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured)					
17	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	112.64	302.88	34116.56	
18	5.22 & 5.22A	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.					
19	5.22A.5	Cold twisted bars	kg	1896.00	85.00	161160.00	
20	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more	kg	#####	85.00	24058996.20	
21	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland / Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all loads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete: Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.					
22	5.33.1.1	All works upto plinth level. Concrete of M-25 grade with minimum cement content of 330 kg/cum	Cum	1126.01	7491.03	8434979.08	
23	5.33.2.1	All works above plinth level upto floor V level. Concrete of M-25 grade with minimum cement content of 330 kg/cum	Cum	550.36	7771.33	4277029.46	
24	6.0	BRICK WORK					
25	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					
26	6.1.3	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	54.14	5621.18	304330.58	
27	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in:					
28	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	281.92	7176.72	2044791.16	
29	6.12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in:					
30	6.12.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	9.30	713.31	6638.74	
31	6.15	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.					
32	6.15.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	513.43	885.70	454746.69	
33	6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	513.43	82.59	42406.84	
34	8.0	MARBLE WORK					
35	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.					
36	8.2.2	Granite of any colour and shade					
37	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	24.54	4266.57	104701.87	
38	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edges to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					

S. No.	Ref DSR 2023	DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
1	8.3.2	Granite work	Meter	48.10	402.69	19369.63	
3	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	16.00	771.35	13884.25	
4	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	330.25	999.31	330023.30	
F	9.0	WOOD & PVC WORK					
1	26.86.3	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Clerestory windows & other Frames/ Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). Note: For WPC solid door/window frames, minus 5 mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made. Frame size 50 x 100 mm	Metre	268.92	746.92	200860.45	
2	26.88.1	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid decorative type flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/moisture proof and fire retardant. WPC to be laminated with PVC foil of minimum 14 microns thick of approved design pasted with hot melt adhesive on both faces of shutter and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately). 30 mm thick	sqm	72.77	3754.84	273239.63	
3	9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :			0.00	0.00	
1	9.7.7.2	5.0 mm thick glass panes (weight not less than 12.50 kg/sqm).	Sqm	124.52	2049.51	255204.80	
4	9.83	Providing 40x5 mm flat iron hold fast 400 mm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 300x100x150 mm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	each	222.00	180.36	40040.90	
5	9.70.2	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete : 100X58X1.90 mm	each	148.00	84.41	12492.20	
6	9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	37.00	786.84	29113.04	
7	9.97	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 :					
1	9.97.1	300x10 mm	EACH	37.00	102.53	3793.75	
8	9.100	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 :					
1	9.100.1	125 mm	EACH	37.00	52.21	1931.84	
9	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.					
1	9.101.2	Twin rubber stopper	EACH	29.00	57.03	1653.74	

Sl. No.	Ref DSR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
10	9.147	Providing and fixing factory made uPVC glazed/wire mesh windows/ doors comprising of lead free uPVC multi-chambered frame, sash and mullion/coupler (where ever required) extruded profiles having minimum wall thickness of 1.70 mm for Series R1 and R2 profiles and 2.10 mm for Series R3 and R4 profiles conforming to EN: 12608 in any shape, colour and design duly reinforced with galvanized mild steel section made of required shape & size as per CPWD Specification, uPVC extruded glazing beads, interlocks and inline sash adaptor (where ever required) of appropriate dimension, EPDM gasket, hardware, SS 304 grade fasteners of minimum 8 mm dia with countersunk head, comprising of matching polyamide PA6 grade sleeve for fixing frame to finished wall as per IS 1367 : Part 1 to 14, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame, sash & mullion (if required) shall be mitred cut and fusion welded/mechanically jointed duly sealed at all corners, including drilling of holes for fixing hardware and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of approved size and quality, all complete as per approved drawing conforming to CPWD specification & direction of Engineer-in-Charge. Section of steel reinforcement and cross sections of uPVC profiles to be as per design approved by Engineer-in-Charge. Wire mesh / Glazing of plain/ toughened/ laminated/ double glass unit with / without high performance coatings as per design requirements and conforming to IS: 3548 & IS: 16231 shall be paid separately. Note:- Structural design proof checked from a Government Engineering Institute, to be provided by the manufacturer for : (i) Sites with basic wind speed > 45 m/sec as per IS 875 - Part 3 (ii) Sites with structure height more than 20m for all wind speeds					
1	9.147.D1.1	Ventilator Casement window single panel with or without fixed panel with S.S. 304 friction hinges as per size and weight of sash, single point locking zinc alloy (samak) powder coated handles. Using R1 series with frame (33 mm & above) x (35 mm & above) & sash /mullion (33 mm & above) x (50 mm & above). (Height upto 0.90 metre).	Sqm	6.11	10404.34	63570.51	
11	9.147.B4.1	Three track three panels sliding door with Aluminium channel for roller track, wool pile, zinc alloy (samak) powder coated handle on two panels along with multi-point locking system, adjustable nylon rollers with SS 304 body. Using R3 series with frame (98 mm & above) x (40 mm & above) & sash (30 mm & above) x (74 mm & above). (Height upto 2.5 metre).	Sqm	118.41	6531.32	773373.84	
G	10.0	STEEL WORK					
1	10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.					
1	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	36.00	2879.22	103651.93	
2	10.7	Providing and fixing ball bearing for rolling shutters.	Each	8.00	388.04	3104.34	
3	10.25	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					
1	10.25.2	In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works.	KG	11566.47	136.03	1573482.00	
4	MR1	Providing & fixing (S.S. Railing with glass) - Side mounted, supply and installation of metal make or equivalent, SS 304 grade 900mm high railing made of SS 304 grade handrail pipe of 50mm OD and 1.6mm thickness polish with automatic round polishing machine to get a uniform hairline finish K240 mounted with help of adjustable solid neck support on balustrade of approved design at 900mm centre to centre, (for actual division as per site conditions), fitted with four Nos. solid glass connectors for holding the infill glass of 12mm, thick toughened and laminated, glass connector to be fitted with balustrade with the help of a screw overall mounted on s.s 304 grade solid base plate 100mm x 8mm with the help of dash fasteners (HILTI/FISCHER make).	Rmt.	41.64	6175.42	257144.64	
5	MR2	laser / cnc cutting jali work- Providing And fixing of laser / cnc cutting jali work on 2mm MS sheet as per approved by Client or architect. Fixed on frame with welded at all height etc. complete.	Sqm	235.55	4442.37	1046400.93	
H	11.0	FLOORING WORK					
1	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :					
1	11.26.1	25 mm thick	Sqm	189.94	1535.48	291649.65	
2	11.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks:					
1	11.1.2	1:6 (1cement : 6 coarse sand)	Sqm	67.99	760.98	51739.24	
3	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing	Sqm	23.69	1855.82	43964.42	
4	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	rmt	1.85	150.85	279.07	
5	11.32	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre.	Sqm	3.91	34.80	136.05	
6	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	105.01	864.23	90752.67	

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No.	Ref DSR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (In Rs.)	Cost without GST (In Rs.)	Remarks
7	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.					
1	11.41.2	Size of Tile 600x600 mm	Sqm	806.42	1224.33	987324.61	
8	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.					
1	11.46.2	Size of Tile 600 x 600 mm.	Sqm	61.26	1279.19	78362.96	
9	BSR-11.72	Providing designation 100 A one brick flat soiling joints filled with local sand including coat of watering, taxes, royalty all complete as per building specification and direction of E/I.	Sqm	253.52	145.93	36996.73	
10	MR3	Providing and fixing 10-12mm thk. Rubberised Tiles as/approved sample as per approved sample and design as per drawing laid over epoxy base cutting edge required shape, size and pattern and setting with vibration complete in all respects as per manufacturers specification.	Sqm	32.53	3297.46	107166.30	
11	MR4	Providing and laying Brick Tile Cladding (230x 75x20mm) in different sizes (thickness to be specified by manufacturer) of approved make, in all colours & shade, on wall over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry including grouting the joint with pigments etc. complete.	Sqm	93.52	4109.32	384303.80	
1	12.0	ROOFING					
1	12.21.1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase	rmf.	146.30	240.50	35185.15	
2	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	each	11.00	235.06	2585.65	
3	12.45.3	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of section channel with the fixed all complete as per drawings.	Sqm	542.18	1205.14	653400.42	
4	12.52.4	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm,	Sqm	105.01	1204.27	126460.52	
J	13.0	FINISHING WORK					
1	13.4	12 mm cement plaster of mix :					
1	13.4.2	1:6(1 cement: 6 coarse sand)	Sqm	1859.03	270.84	503497.79	
2	13.6	20 mm cement plaster of mix :					
1	13.6.2	1:4 (1 cement: 4 coarse sand)	Sqm	2342.03	367.31	860259.38	
3	13.10	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall.	Sqm	107.34	399.27	42857.77	
4	13.14	15 mm cement plaster 1:2 (1 cement : 2 stone dust) on the rough side of single or half brick wall.	Sqm	10.08	344.58	3473.33	
5	13.16	6 mm cement plaster of mix :					
1	13.16.1	1:3 (1 cement: 3 fine sand)	Sqm	798.78	236.80	189148.40	
7	13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	per bag of 50kg cement	409.39	17.42	7129.63	
8	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	2657.82	207.04	550281.36	

No.	Ref DSR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
9	13.37.1	White washing with lime to give an even shade : New work (three or more coats)	Sqm	817.00	30.78	25146.98	
10	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	2342.03	126.58	296445.42	
11	13.48.3	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications : Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	Sqm	307.55	134.53	41378.90	
12	13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.					
1	13.52.1	On steel work	Sqm	150.00	190.53	28580.08	
13	13.61.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Sqm	354.51	122.87	43559.67	
14	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	2342.03	122.99	288049.84	
15	13.82	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					
1	13.82.2	Two coats	Sqm	2657.82	108.33	287922.99	
16	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.					
1	13.85.2	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	Sqm	2657.82	58.28	154896.85	
17	MRE	Providing and fixing of chicken wire mesh on the junction of RCC & BW as per direction of Engineer-in-charge.	Sqm	834.33	244.92	204340.14	
K	15.0	<u>DISMANTLING AND DEMOLISHING</u>					
1	15.59	Dismantling of flexible pavement (bituminous courses) by mechanical means and disposal of dismantled material up to a lead of 1 kilometre, as per direction of Engineer-in-charge.	Cum	105.00	331.64	34822.63	
2	15.44	Dismantling O.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :					
3	15.44.2	Above 40 mm nominal bore	meter	160.00	127.20	20352.54	
L	16.0	<u>ROAD WORK</u>					
1	RCD-3.16	Construction of Embankment with Material obtained from Borrow pits. Construction of Embankment with approved material obtained from Borrow pits with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of Table 300-2.	cum	3725.87	157.46	586666.65	
2	RCD-3.17	Construction of Embankment with Material Deposited from Roadway Cutting. Construction of Embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Table 300-2. Rate per cum after adding royalty@Rs 33.00/cum	cum	1336.38	78.05	104305.59	
3	RCD-3.18	Construction of Subgrade and Earthen Shoulders. Construction of sub-grade and earthen shoulders with approved material obtained from Borrow pits with approved material obtained from borrow pits with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement of Table 300-2.	cum	980.14	159.15	155991.77	
4	RCD-3.19	Construction of Subgrade and Earthen Shoulders with Material Deposited from Roadway Cutting. Construction of Embankment with Material Deposited from Roadway Cutting. Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Table 300-2. Rate per cum after adding royalty@Rs 33.00/cum	cum	445.46	78.90	35146.04	
5	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	Cum	6915.91	172.53	1193170.30	
6	16.78	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in- Charge.					
1	16.78.2	With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value 25	Cum	950.40	2304.51	2190204.88	
7	16.80	Construction of dry lean cement concrete sub base over a prepared subgrade with coarse and fine aggregate conforming to IS:383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per specifications, cement content not to be less than 150 Kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, for all leads & lifts, laid with a mechanical paver, compacting with 8-10 tonne vibratory roller, finishing and curing etc. complete as per direction of Engineer-in- charge.	Cum	712.80	3269.69	2330638.54	

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Ref DSR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
8	16.43.2	Cum	983.75	8747.08	8604944.62	Providing and laying design mix cement concrete of M-30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/ expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately). Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately. Cement concrete manufactured in automatic batching plant (RMC plant) including transportation to site in transit mixer
9	RCD-M165	Sqm	3935.00	21.26	83668.77	Providing and applying 125 micron polyethylene sheet layer before concrete complete all as per direction of Engineer-in-charge.
10	16.45	per cm depth per cm width per metre length	59678.25	4.18	249333.71	Providing and fixing pre-moulded joint filler in expansion joints of RCC roads / CC pavements after making the joints dust free with high pressure air jet cleaners, all complete as per direction of the Engineer-in-Charge. (Pre-moulded joint fillers shall be made of bitumen hot sealing compound impregnated fibre board having impregnation more than 35%, conforming to IS:1836 for fibre board and IS: 1834 for hot sealing bitumen compound grade A.)
11	16.46.1	per cm depth per cm width per metre length	5079.00	6.81	34606.07	Providing and filling in position rubberised bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge. Providing and filling in position rubberised bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge.
12	16.47.1	sqm	245.10	148.33	36355.81	Painting runway/taxi track/apron marking with adequate nos of coats to give uniform finish with road marking paint of superior make as approved by the Engineer-in-charge, including cleaning the surface of all dirt, scales, oil, grease and other foreign material etc. and lining out complete. New work (Two or more coats)
13	16.69	Cum	151.15	7974.04	1205276.60	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not be more than 5 mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured to calculate volume for)
14	16.53	metre	247.00	296.18	73155.96	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5 mm thick) wire of high tensile strength of 165 kg/ sq. mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks etc. to be paid separately)
15	HORTICULTURE-2.34	Sqm	6226.86	68.96	429389.49	Providing & laying Selection no. 1 doob grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with required tools wooden and then rolling the surface with light roller make the surface smoothen and light watering the same maintenance for 30 days or more till the grass establish properly, as per direction of officer in charge
M	18.0	WATER SUPPLY				
1	18.6					Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes conforming to IS:15801 UV 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.
i	18.6.7	meter	150.00	549.14	82370.34	PN - 10 Pipe, 75 mm OD (SDR-11)
ii	18.6.9	meter	125.00	1025.64	128205.51	PN - 10 Pipe, 110 mm OD (SDR-11)
2	18.9					Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work
i	18.9.5	meter	80.00	443.76	35501.02	40 mm nominal outer dia Pipes
ii	18.9.6	meter	120.00	625.97	75116.95	50 mm nominal outer dia Pipes
3	18.17					Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :
i	18.17.3	Each	8.00	651.08	5208.61	40 mm nominal bore.
4	18.19					Providing and fixing gun metal non- return valve of approved quality (screwed end) :
	18.19.1					25 mm nominal bore.
i	18.19.1.1	Each	4.00	466.10	1864.41	Horizontal
ii	18.19.1.2	Each	6.00	491.87	2951.24	Vertical
N	19.0	DRAINAGE				
1	DSR 19.18					Supplying and fixing C.I cover without frame for manholes:
i	19.18.2	Each	12.00	2712.14	32545.63	500 mm diameter C.I cover (medium duty) the weight of the cover to be not less than 58 kg.
2	DSR 19.15					Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design
i	19.15.1	Each	40.00	429.30	17171.86	With 20x20mm square bar
O	20.0	PILE WORK				

S. No.	Ref DSR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (In Rs.)	Cost without GST (In Rs.)	Remarks
1	20.2.1	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using Direct mud circulation (DMC) or Bailer and chisel technique by tripod and mechanical Winch Machine all complete, including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap). 450 mm dia piles	metre	1877.00	1795.61	3370360.29	
2	20.6	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer-in-charge. Note: 1. Initial and Routine Load Test shall not be carried out by Dynamic method of testing. Note: 2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-charge.					
I	20.6.1.1	Single pile upto 50 tonne Safe capacity Initial test (Test Load 2.5 times the Safe capacity)	per test	20.00	43167.36	863347.29	
II	20.6.1.2	Single pile upto 50 tonne Safe capacity Routine test (Test Load 1.5 times the Safe capacity)	per test	20.00	15472.99	309459.83	
P	21.0	Aluminium Work					
1	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg. for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.					
1	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	each	4.00	2225.58	8902.31	
2	21.18	Providing and fixing 12mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double acting hydraulic floor spring type fixing arrangement and making necessary holes etc, for fixing required door fittings, all complete as per direction of Engineer in charge (Door handle, lock and stopper etc. to be paid separately)	Sqm	9.45	4197.53	39666.70	
3	MR6	Providing and fixing stainless steel Pull Handles 32mm dia. (D type) of Doors Et (model no SD 48 P 88 1200mm) or equivalent make with necessary screws etc. all complete as per direction of Engineer-in-charge	Each	6.00	3282.20	19693.22	
Q	22.0	WATER PROOFING					
1	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) 2nd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) 3rd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area. (iv) 4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	Sqm	134.25	606.55	81429.48	
2	22.4.1	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete : Serrated with central bulb (225 mm wide, 8-11 mm thick)	metre	381.00	258.23	98385.18	
3	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, consisting of following operations. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water -proofing compound cleaning the surface before treatment, (b) Laying cement concrete using broken bricks / brick bats 25 mm to 100 mm size with 50 % of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement: 5 coarse sand)					
		admix with proprietary water proofing compound conforming to IS 2545 to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions, or walls ad alabs. (c) After two days of proper curing applying a seccing coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300 x 300 mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge.					
1	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm	366.46	1327.69	486547.08	
4	22.23	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI- 212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.					
1	22.23.1	For vertical surface two coats @ 0.70 kg per sqm	Sqm	2936.24	372.71	1094371.48	

	Ref DSR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (In Rs.)	Cost without GST (In Rs.)	Remarks
1	22.23.1	For horizontal surface one coat @1.10 kg per sqm.	Sqm	946.15	285.93	270534.75	
5	MR7	Providing and filling Cinder in sunken portion of Toilets. all complete as per direction of Engineer-in-charge	Cum	7.92	2580.51	20437.63	
R	23.0	RAIN WATER HARVESTING & TUBEWELLS					
1	DSR 23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in Recharge Pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge	cu-m	0.64	1189.92	761.85	
2	DSR 23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the Recharge Pit, over the existing layer boulders in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge	cu-m	0.16	1212.35	193.98	
3	DSR 23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm, in the Recharge Pit, in the required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer-in-charge	cu-m	0.28	1212.35	339.46	
8	25.0	STRUCTURAL GLAZING ALUMINIUM COMPOSITE PANEL					
1	25.1	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to ISO 2604 of required colour and shade as approved by the Engineer-in-Charge. (This item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account). The weight of aluminium extruded section shall be taken for purpose of payment.	kg	1167.72	326.53	381290.27	
2	25.2	Designing, fabricating, testing, protection, installing and fixing in position semi (grid) unitized system structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including: (a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminium sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)- cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including: (b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect vertically and fixing structural glazing system rigidly to the RCC/ masonry/ structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers. (c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.			0.00	0.00	
		(d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight. (e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalisation, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P, scaffolding and other incidental charges including wastages etc., enabling temporary structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, duly approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. Note:- 1. The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub-head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places. Note:-2. The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accredited by NABL (National Accreditation Board for Testing and Calibration			0.00	0.00	

Ref DSR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (In Rs.)	Cost without GST (In Rs.)	Remarks
	The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system/Tests to be conducted in the NABL accredited lab or any other accreditation body which operates in accordance with ISO/ IEC 17011 and accredits labs as per ISO/IEC 17025 1. Performance Laboratory Test for Air Leakage Test (-50pa to -300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 mVhr 2. Static Water Penetration Test. (50pa to 1500pa) as per ASTM E-331-09 testing method for a range up to 2000 ml. 3. Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml 4. Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm 5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test, Tests to be conducted on site. 6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa (35psi) upto 2000 ml	Sqm	233.54	2766.75	646145.81	
3	25.3 Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, desiccants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.25.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/ m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	sqm	233.54	2930.84	684468.14	
4	25.4 Extra for openable side / top hung vision glass panels (IGUs) including providing and supplying at site all accessories and hardware for the openable panels as specified and of the approved make such as heavy duty stainless steel friction hinges, min 4-point cremone locking acts with stainless steel plates, handles, buffers etc. including necessary stainless steel screws/ fasteners, nuts, bolts, washers etc. all complete as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer- in- Charge.	sqm	23.35	2893.64	67566.39	
0	Services & Surveillances					
1	MR9 Providing road Vehicle (Scorpio or similar) for the use of Engineer/Employer as per the condition mentioned in special conditions of the contract .(up to 3000km/month/vehicle including Diesel& POL)	Vehicle/ Month	20.00	49633.31	992666.10	
2	MR10 Extra for running & maintaining beyond 3000 km	km	500.00	13.41	6703.39	
T	ELECTRICAL WORK					
	SUB HEAD - I (WIRING)					
1	1.8.3 C DSR Wiring for Light / Fan/Wall fan / Exhaust Fan / Call Bell point with 1.5sq.mm FR PVC insulated Copper Conductor single core cable in recessed medium class PVC Conduit in surface / recessed Mouldaler type switch. Mouldaler Plate, suitable size PVC/GI box etc. (Group-C) as required, all complete as per instructions of Elec.Er. / Architect.	Light Point	261.00	1138.86	297241.40	
2	1.24.1 1.24.4 DSR Supplying and fixing 5 pin, 5/6 amps socket outlet and 5/6 amps Modular type switch connection etc up-on switch board, as required.all complete as per instructions of Elec.Er / Architect.	Set	40.00	177.33	7093.32	
3	01.31 DSR Supplying and fixing 1nos Modular type 6Amp 5pin socket with 6Amps switch, Modular Plate, suitable size PVC/G.I. box as required. all complete as per instructions of Elec.Er. / Architect.	Set	17.00	375.94	6390.99	
4	01.56 DSR Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 nos. 5 pin 5/6 amps modular socket outlet and 2 nos. 5/6 amps modular switch, connection etc.	Set	37.00	532.78	19712.85	
5	01.32 DSR Supplying and fixing 1nos Modular type 15Amp 6 pin socket with 15Amps switch, Modular Plate, suitable size PVC/G.I. box as required. all complete as per instructions of Elec.Er. / Architect.	Set	22.00	461.85	10160.64	
6	02.19 DSR Supplying and fixing 20Amp 240 volts SPN MCB industrial type, power socket with 25Amp SPN MCB and 25 Amps Top in proper size steel box and plate as required. all complete as per instructions of Elec.Er. / Architect.	Set	24.00	1277.57	30661.63	
7	1.7.1 BOR Wiring for 6 metre height Hot-dip galvanized octagonal street light pole with Two arm and Singal arm, 1000 mm arm Pole light wiring point along with earth wire with 2x1.5 sq. mm +1x1.5 FR PVC insulated copper conductor single core cable in surface / recessed medium PVC conduit. as required, all complete as per instructions of Elec.Er. / Architect.	Mtr.	0.00	170.34	0.00	
8	1.7.1 BOR Wiring for 32 mm dia X 1.00 metres long G.I. pipe Pole light wiring point along with earth wire with 2x1.5 sq. mm +1x1.5 FR PVC insulated copper conductor single core cable in surface / recessed medium PVC conduit. as required, all complete as per instructions of Elec.Er. / Architect.	Mtr.	0.00	170.34	0.00	
9	1.7.2 DSR Wiring for switch board, and 5A/15A socket power circuit/submain wiring along with earth wire with 2x2.5 sq. mm +1x2.5 FR PVC insulated copper conductor single core cable in surface / recessed medium PVC conduit. as required, all complete as per instructions of Elec.Er. / Architect.	Mtr.	1248.00	290.82	362945.90	
10	1.7.3 DSR Wiring for circuit/submain wiring for 15A power and 25A A.C. power point along with earth wire with 2x4 sq. mm +1x4 FR PVC insulated copper conductor single core cable in surface / recessed medium PVC conduit. as required, all complete as per instructions of Elec.Er. / Architect.	Mtr.	812.00	337.32	273905.49	

	DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
	Supply & Fixing for sub main from L.T. Penol to 6 way (6 + 18), Double door, horizontal type for light and power point circuit TPN D.B's- 4 x 10sq. mm PVC insulated copper conductor single core cable in recessed PVC conduit with 2x6 sq mm PVC insulated copper conductor single core cable for loop earthing as required, all complete as per instructions of Elec. Er / Architect.	Mtr.	56.00	918.97	51462.10	
1.7.8 SOR	Supply & Fixing for sub main from L.T. Penol to 4 way (4 + 12), Double door, horizontal type for light and power point circuit TPN D.B's- 4 x 4sq. mm PVC insulated copper conductor single core cable in recessed PVC conduit with 2x4 sq mm PVC insulated copper conductor single core cable for loop earthing as required, all complete as per instructions of Elec. Er / Architect.	Mtr.	86.00	533.57	45886.83	
01.33 DSR	Supplying and fixing ceiling rose 2 pin 6amps on existing junction box/ wooden block including connection etc. as required.	Each	133.00	68.57	9119.82	
01.34 DSR	Supplying and fixing brass/ angle holder on existing junction box/ wooden block including connection etc. as required.	Each	53.00	103.25	5472.03	
1.25.0 DSR	Supplying and fixing stepped type electronic fan regulator on the existing modular plate/ switch box including connections but excluding modular plate etc. as required.	Set	51.00	290.82	14831.92	
2.24.2 DSR	Supplying and fixing Cable end box (Loose wire box, IP43) suitable for For 4 way, Double door TPN MCB DB pole and neutral, sheet steel, MCB distribution board, 415 V, on surface / recess complete with testing and commissioning etc. as required.	Each	6.00	885.86	5315.19	
2.23.3 DSR	Supplying and fixing Cable end box (Loose wire box, IP43) suitable for For 4 way, Double door TPN MCB DB pole and neutral, sheet steel, MCB distribution board, 415 V, on surface / recess complete with testing and commissioning etc. as required.	Each	1.00	638.39	638.39	
2.4.1 DSR	Supplying and fixing 4 way (4 + 12), Double door, horizontal type three pole & neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus - bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required, (But. (But without MCB/RCCB Isolator)	Each	4.00	3224.26	12897.05	
2.4.2 DSR	Supplying and fixing 6 way (6 + 18), Double door, horizontal type three pole & neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper bus - bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required, (But. (But without MCB/RCCB Isolator)	Each	2.00	3920.19	7840.37	
2.10.5	Supplying and fixing 32A/63A rating, 415 volts, TPN "C" curve, miniature circuit breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required	Each	6.00	967.83	5806.98	
2.10.2	Supplying and fixing 32A rating, 240 volts, SPN "C" curve, miniature circuit breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required	Each	5.00	472.09	2360.47	
2.10.1 DSR	Supplying & fixing 3A to 32A rating, 220V/ 415V, 10Ka SP "C" curve, series miniature circuit breaker for inductive load single pole in the existing MCB DB complete with connection testing and commissioning etc. as required, all complete as per instructions of Elec. Er. / Architect.	Each	78.00	201.76	15737.49	
2.5.3 SOR	Providing and fixing 200amps capacity busbar chamber with 4 strips of suitable size made of copper, heavy duty, complete with all accessories including connections, earthing the body etc. as required.	Set	2.00	8314.83	16629.66	
2.4.1 SOR	Providing and fixing 100A, rating and 16 ka. breaking capacity MCCB (TPN) in made of existing 1.6mm thick sheet steel enclosure duly painted with powder coating, wall straps cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.	Each	1.00	6440.64	6440.64	
2.4.3 SOR	Providing and fixing 160A, rating and 36 ka. breaking capacity MCCB (TPN) in made of existing 1.6mm thick sheet steel enclosure duly painted with powder coating, wall straps cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.	Each	1.00	10795.88	10795.88	
7.2 SOR	Providing and fixing 63A capacity four pole ON-load panel mounted changeover switches inside the existing cubical panel board including drilling holes in cubicle panel, making connections etc. as required.	Each	1.00	6604.58	6604.58	
2.7.5 SOR	Providing and fixing 160A capacity four pole ON-load panel mounted changeover switches inside the existing cubical panel board including drilling holes in cubicle panel, making connections etc. as required.	Each	1.00	13473.97	13473.97	
02.20 SOR	Providing and fixing M.V danger notice plate of 200mmx150mm made of mild steel at least 2mm thick, vitreous enameled white on both side and with inscription in single red colour on front side in excluding cubical panel as required.	Each	2.00	168.66	337.32	
8.10.13 SOR	Supply and fixing panel mounted digital multimeter (Voltmeter & ammeter) including CT coil and RYB pilot indicator in the existing cubical panel board including drilling holes in the panel board making connections etc as etc as required.	Each	2.00	5151.25	10302.51	
8.12 SOR	Providing and fixing wall mounting iron sheet cubical panel board, fabricated with 16 SWG gauge iron sheet, suitable size for panel mounted disconnector, including, busbar chamber, insulator, nut-bolt and painting etc. as per require. size made 3'-0" x 3'-0" x 12'-9" SQ. FT.	Sq. feet	21.00	1781.97	37421.47	
	SUB HEAD - II (SUPPLY OF CABLE MAIN & SUBMAIN)					
7.7.7 SOR	Supply of 25 sq. mm and 3.5 core PVC/XLPE insulated, PVC sheathed (heavy duty) armoured electrical power cable with aluminium conductor for working voltage upto 1.1 KV/1.1 KV as required. (Note-Cable Measurement written is approx. Size may change according to layout of cable.)	Mtr.	50.00	272.69	13634.75	
7.7.11 SOR	Supply of 95 sq. mm and 3.5 core PVC/XLPE insulated, PVC sheathed (heavy duty) armoured electrical power cable with aluminium conductor for working voltage upto 1.1 KV/1.1 KV as required. (Note-Cable Measurement written is approx. Size may change according to layout of cable.)	Mtr.	50.00	748.73	37436.44	
7.1.1 SOR	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of Upto 35 sq. mm size direct in ground including excavation and refilling the trench etc as required but excluding sand cushioning and protective covering.	Mtr.	40.00	174.97	6998.64	

Ref DSR-2023		DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
24	7.1.3 SOR	Laying of one number PVC insulated and pvc sheathed / XLPE power cable of 1.1 KV grade of f Above 95 sq. mm and upto 185sq. Mm size direct in ground including excavation and refilling the trench etc as required but excluding sand cushioning and protective covering.	Mtr.	40.00	264.81	10592.54	
		SUB HEAD - III (SUPPLY & MAKING OF EARTHPITS)					
35	3.21 OR 3.6+3.8+3.9 SOR	Providing chemical/mineral maintenance free earthing system comprising of copper coated earth electrode 3 metre length and 17.2 mm outer dia along with 25 kg earth conductivity enhancing back fill mineral compound for earth inspection pit etc. as required. OR Supply, Fixing & Hole cutting in earth as per drawing of (CU) (600mm X 300mm X 3mm) plate electrode earth, all complete as per specifications and drawings attached.(1No. EARTH for UPS Main neutral only.) -The rate shall be inclusive of submission of TEST REPORT (2 Ohm) of each earth pit. <u>-Caution Note -</u> <u>The rate shall be inclusive of submission of TEST REPORT (2 Ohm) of each earth pit and TESTING shall be carried out in front of Officials / Consultant.</u>	Each	4.00	13142.16	52568.64	
36	03.17 SOR	Supplying and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing etc. as required.	Mtr.	116.00	113.49	13165.02	
		PLUMBING WORK					
U	A	SANITARY INSTALLATION					
1	MR11	Providing & fixing wall hung w.c with UP soft close set over hinges accessories set size 360x500x380 mm,Jaquar ,cat.no -LYS - WHT -38953BU/PSM. & Concealed Single piece slim concealed cistern cat.no -JCS - WHT -2400WS,with Flushing Control plate cat.no -JCP -CHR -372415,all complete. specification and direction of Engineer-in-charge.	Each	10.00	27239.83	272398.31	
2	MR12	Providing and fixing counter basin size- (mm) 190x550x430 (Jaquar,CAT NO- FLS-wht-5701) or equivalent including fixing and all accessories as per manufacturers specification and direction of Engineer-in-charge.	Each	1.00	16327.12	16327.12	
3	MR13	Providing and fixing counter basin size- (mm) 190x550x430 (Jaquar,CAT NO- FLS-wht-5701) including fixing and all accessories as per manufacturers specification and direction of Engineer-in-charge.	Each	13.00	10710.17	139232.20	
4	DSR 17.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P flush bend with fittings & C.I brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required;					
	17.3.1	W.C pan with ISI marked white solid plastic seat and lid	Each	8.00	6310.29	50482.31	
5	DSR 17.80	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	Each	2.00	6288.69	12577.39	
6	DSR 8.10	Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4(1 cement: 2 coarse sand: 4 graded stone aggregate 6mm nominal size) as per direction of Engineer-in-charge and finished smooth.					
	8.10.1	White Agarja Marble Stone	Sqm	0.75	2758.83	2069.12	
7	DSR 17.7	Providing and fixing wash basin with C.I 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 require;					
	17.7.1	White Vitreous China Wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps.	Each	10.00	2087.65	20876.53	
8	DSR 17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink 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;			0.00	0.00	
	17.10.1	Kitchen sink with drain board			0.00	0.00	
	17.10.1.4	510x1040mm bowl depth 178mm	Each	3.00	5451.69	16355.08	
	17.10.2	Kitchen sink without drain board					
	17.10.2.1	610x510mm bowl depth 200mm	Each	1.00	3894.02	3894.02	
9	DSR 17.28	Providing and fixing PVC waste pipe for sink & wash basin including PVC waste fittings complete					
	17.28.1	Semi rigid pipe					
	17.28.1.1	32 mm dia	Each	4.00	81.89	327.56	
10	DSR 17.31	Providing and fixing 600X450mm beveled edge mirror of superior glass complete with 6mm thick hard board ground fixed to wooden cleats with CP brass screws & washers complete.	Each	24.00	1267.28	30414.71	
11	DSR 17.71	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour weighing not less than 105 gms.	Each	24.00	132.69	3184.47	
12	DSR 17.72	Providing and fixing PTMT towel ring trapezoidal shape 215mm long, 200mm wide with a minimum distances of 37mm from wall face with concealed fittings arrangement of approved quality and colour. Weighing not less than 88 gms.	Each	18.00	182.81	3290.49	
13	SOR 17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour.					
	17.73.1	450mm long towel rail with total length of 495mm, 78mm wide and effective height of 88mm, weighing not less than 170 gms.	Each	2.00	530.73	1061.46	
14	DSR 17.34	Providing and fixing Toilet Paper holder					
	17.34.2	Vitreous china	Each	18.00	430.60	7750.83	
15	DSR 17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.					
	17.70.1	Bottle trap 31mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 260 gms.	Each	10.00	289.32	2893.22	
16	MR14	Providing and fixing PVC Soil ,Waste & vent pipes all complete					
		110 mm dia	metre	275.00	442.16	121594.28	
		40 mm dia	metre	65.00	234.70	15258.72	
17	MR15	Providing and fixing PVC fittings all complete as per specification & direction of E/I					

Ref DSR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
	110 mm vent cowel	Each	16.00	68.64	1098.31	
	110 mm plain bend	Each	50.00	190.68	9533.90	
	110 mm door bend	Each	22.00	234.75	5164.41	
	110 X 110 mm dia door tee	Each	16.00	294.75	4715.93	
	110 X 110 mm dia plain tee	Each	5.00	274.11	1370.55	
	110 mm dia X 45 Bend	Each	6.00	180.51	1083.06	
	110 X 110 mm dia plain - y	Each	12.00	302.63	3631.53	
	110 mm pipe clip	Each	107.00	43.90	4697.12	
	110 X 110 mm dia p-trap	Each	34.00	362.63	12329.32	
	40 mm elbow	Each	58.00	56.61	3283.39	
	40 mm plain tee	Each	34.00	63.52	2159.58	
B	WATER SUPPLY					
18	DSR 18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
		Internal work - Exposed on wall				
	18.7.2	20 mm Nominal outer dia pipes	Metre	41.00	264.03	10825.04
	18.7.3	25 mm Nominal outer dia pipes	Metre	50.00	316.47	15823.73
	18.7.4	32 mm Nominal outer dia pipes	Metre	29.00	408.85	11856.58
	18.7.5	40 mm Nominal outer dia pipes	Metre	34.00	554.02	18836.58
	18.7.6	50 mm Nominal outer dia pipes	Metre	167.00	736.24	122951.63
19	DSR 18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
		Concealed work, including cutting chases and making good the				
	18.8.2	20 mm Nominal outer dia pipes	Metre	96.00	423.70	40675.53
	18.8.3	25 mm Nominal outer dia pipes	Metre	46.00	494.36	22740.37
	18.8.4	32 mm Nominal outer dia pipes	Metre	4.00	582.67	2330.68
20	DSR 18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
		External work				
	18.9.5	40 mm nominal outer dia pipes	Metre	60.00	443.76	26628.76
21	DSR 18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality.				
	18.17.1A	20 mm Nominal bore	Each	3.00	425.53	1276.63
	18.17.1	25 mm Nominal bore	Each	4.00	490.53	1962.14
	18.17.2	32 mm Nominal bore	Each	5.00	543.50	2717.50
	18.17.3	40 mm Nominal bore	Each	2.00	651.08	1302.15
	18.17.4	50 mm Nominal bore	Each	8.00	809.14	6473.08
22	DSR 18.21	Providing and fixing upsplasticised PVC connection pipe with brass unions.				
	18.21.2	45 cm length				
	18.21.2.1	15 mm Nominal bore	Each	28.00	77.19	2161.46
23	DSR 18.19	Providing and fixing gun metal non-return valve of approved quality.				
	18.19.3	40 mm nominal bore				
	18.19.3.2	Vertical	Each	2.00	894.30	1788.59
24	DSR 18.46	Providing and fixing G.I. union in G.I. pipe including cutting and threading the pipe and making long screws etc.				
	18.46.2	20 mm dia. Nominal bore	Each	3.00	273.32	819.97
	18.46.3	25 mm dia. Nominal bore	Each	4.00	346.19	1384.75
	18.46.4	32 mm dia. Nominal bore	Each	5.00	385.44	1927.20
	18.46.5	40 mm dia. Nominal bore	Each	2.00	497.55	995.10
	18.46.6	50 mm dia. Nominal bore	Each	8.00	649.26	5194.10
		C.P. BRASS FITTINGS				
25	MR 16	CP brass 2-way bib cock with wall flange (Kubix-F) 15mm (Jaquar -KUP-35041PM) or equivalent				
		Each	10.00	4210.38	42103.81	
26	MR 17	110 mm dia cp jali				
		Each	15.00	203.81	3057.20	
27	MR 18	Providing & Fixing angle stop cock, 15 mm dia nominal bore (Jaquar -KUP-35053PM) or equivalent				
		Each	13.00	1525.76	19834.92	
28	MR 19	Providing and Fixing Wall Mixer 3-in-1 System (Jaquar product No KUP-35125PM)				
		Each	3.00	11333.47	34000.42	
29	MR 20	Providing and Fixing Overhead Shower with Arm (Jaquar product No OHS-35495)				
		Each	3.00	4473.73	13421.19	
30	MR 21	Providing and Fixing Hand Shower with Shower Tube (Jaquar Product No HSH-1717)				
		Each	3.00	3703.26	11109.79	
31	MR 22	Providing Towel Rail (Jaquar product No. AKP-CHR-35701PS)				
		Each	3.00	1872.03	5616.10	
32	DSR 18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS :8931.				
	18.49.1	15 mm Nominal bore	Each	8.00	399.42	3195.39
33	DSR 18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				
	18.50.1	15 mm Nominal bore	Each	5.00	646.82	3234.11
34	DSR 18.53	Providing and fixing C.P brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
	18.53.1	15 mm Nominal bore	Each	15.00	452.63	6789.41
35	DSR 18.22	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet				
	18.22.1	100 mm diameter	Each	2.00	152.86	305.71
36	DSR 18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design & of approved make conforming to IS 8931.				
	18.52.1	15 mm Nominal bore	Each	2.00	528.41	1056.81

	Ref DSR-2023	DESCRIPTION	UNIT	Qty.	Rate without GST (In Rs.)	Cost without GST (In Rs.)	Remarks
37	DSR 18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms.	Each	5.00	87.84	439.19	
38	DSR 18.33	Constructing masonry Chamber 60 x 60 x 75 cm inside, in brick work in cement mortar 1:4 (1 cement: 4 coarse sand) for sluice valve, with C.I surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) i/c necessary excavation, foundation concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement: 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design:					
	18.33.1	With common burnt clay F.P.S (non modular) bricks of class designation 100 A	Each	2.00	8561.04	17122.08	
39	DSR 18.48	Providing and placing on terrace 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. (2000x1 = 2000)	per litre	6000.00	8.67	52016.95	
	C	DRAINAGE					
40	DSR 2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50m:					
	2.10.1	All kinds of soil					
	2.10.1.2	Pipes, cables etc. exceeding 80mm dia but not exceeding 300mm dia	Metre	151.20	277.54	41964.41	
41	DSR 19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 'A' with stiff mixture of cement mortar in the proportion of 1:1 (1 cement: 1 fine sand) including testing of joints etc. complete.					
	19.1.2	150mm diameter	Metre	19.20	548.38	10528.92	
42	DSR 19.2	Providing and laying cement concrete 1:5:10 (1 cement: 5 coarse sand: 10 graded stone aggregate 40mm nominal size) all-round S.W pipes including bed concrete as per standard design.					
	19.2.2	150mm diameter S.W pipe	Metre	19.20	929.88	17853.72	
43	DSR 19.4	Providing and fixing square mouth SW gully trap grade A complete with CI grating brick masonry chamber with water tight CI cover with frame of 300X300mm size (inside) the wt. of cover to be not less than 4.50kg. And frame to not less than 2.70 kg. as/standard design					
	19.4.3	180x150mm size p type					
	19.4.3.1	With F.P.S. bricks designation 7.5	Each	16.00	2208.47	35335.59	
44	DSR 19.6	Providing and laying non -pressure NP2 class R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 including testing of joints etc.					
	19.6.2	150 mm dia R.C.C. pipe	Metre	132.00	438.56	57889.83	
45	DSR 19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement: 4 coarse sand) R.C.C top slab with 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design:					
	19.7.1	Inside size 90x80cm and 45cm deep including C.I cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)					
	19.7.1.1	With common burnt clay F.P.S (non modular) bricks of class designation 7.5	Each	2.00	10064.92	20129.85	
46	DSR 19.8	Extra for depth for manholes					
	19.8.1	Size 90x80cm					
	19.8.1.1	With F.P.S bricks class designation 7.5	Metre	0.30	6955.61	2086.68	
47	DSR 19.30	Constructing brick masonry chamber for underground C.I inspection chamber and bends with 7.5 class designation bricks in cement mortar 1:4 (1 cement: 4 coarse sand) C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C top slab with 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:					
	19.30.1	Inside dimensions 455x610mm and 45cm deep for single pipe line:					
	19.30.1.1	With F.P.S bricks	Each	19.00	5468.01	103892.16	
48	DSR 19.31	Extra for depth beyond 45cm of brick masonry chamber:					
	19.31.1	For 455x610mm size					
	19.31.1.1	With F.P.S bricks	Metre	1.90	4821.03	9159.95	
49	DSR 19.32	Making soak pit 2.5 m diameter 3.0 meter deep with 45x45 cm dry brick honey comb shaft with brick of class designation 7.5 and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.					
	19.32.1	With F.P.S. bricks	Each	4.00	21170.82	84683.29	
	D	RAIN WATER PIPE					
50	DSR 12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion,					
	12.41.2	110 mm diameter	Metre	94.00	297.44	27959.42	
51	DSR 12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.					
	12.42.1	Coupler					
	12.42.1.2	110 mm	Each	13.00	107.31	1394.97	
	12.42.2	Single pushfit Coupler:					

Sl. No.	DSR 2023	DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
12.42.2.2		110 mm	Each	13.00	100.57	1307.38	
12.42.3		Single tee with door					
12.42.3.2		110 x 110 x 110 mm	Each	13.00	184.54	2399.05	
12.42.5		Bend 87.5°					
12.42.5.2		110 mm bend	Each	13.00	118.50	1540.50	
52	DSR 12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised -PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.					
12.43.2		110 mm	Each	78.00	292.64	22825.58	
53	DSR 12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	13.00	43.11	560.43	
	E	TUBE WELL					
54	DSR 23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level.					
23.1.1		All types of soil					
23.1.1.1		300 mm dia	Mtrs.	180.00	557.81	100404.92	
55	DSR 23.2	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.					
23.2.1		All types of soil			0.00	0.00	
23.2.1.1		300 mm dia	Mtrs.	60.00	650.76	39045.76	
56	DSR 23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.					
23.3.1		100 mm nominal size dia	Mtrs.	90.00	529.86	47687.80	
23.3.2		150 mm nominal size dia	Mtrs.	60.00	625.19	37511.19	
57	DSR 23.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.					
23.4.1		100 mm nominal size dia	Metre	60.00	541.09	32465.59	
58	DSR 23.8	Gravels packing in tubewell construction in accordance with IS 4097 including providing gravel fine/medium/coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	cu_m	14.16	1595.58	22593.36	
59	DSR 23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by V notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	Hrs	72.00	855.17	61872.20	
60	DSR 23.13	Providing & fixing suitable size threaded mild steel cap or spot welded plate to the top of borewell housing/ casing pipe, removable as per requirement, all complete for borewell of,					
23.13.2		150 mm dia	each	2.00	194.24	388.47	
61	DSR 23.14	Providing & fixing MS clamp of required dia to the top of housing/casing pipe of, removable as per tubewell as per IS:2800(part-I), including necessary bolts & nuts of required size complete					
23.14.2		150 mm dia	each	2.00	1591.29	3182.58	
62	DSR 23.15	Providing & fixing Bail plug/ bottom plug of required dia to the bottom of pipe assembly as per IS:2800(part-I),					
23.15.1		100mm dia	each	2.00	208.93	417.86	
63	MR 23	Establishment of -2HP of submersible pump set of approved brand and make, all complete.	each	2.00	34844.92	69689.83	
	F	TUBE WELL FOR RAIN WATER HARVESTING					
64	DSR 23.1	Boring/drilling borewell of required dia for casing/strainer pipe by suitable method prescribed in IS:2800(part-I), including collecting sample from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants and machineries required for the job, all complete as per direction of engineer in charge, upto 90 metre depth below the ground level					
23.1.1		All type of soil					
23.1.1.1		300 mm dia	metre	80.00	557.81	44624.41	
65	DSR 23.3	Supplying, assembling, lowering and fixing in vertical position in borewell, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS:12818, including required hire and labour charges, fittings and accessories etc. all complete, for all depths, as per direction of Engineer-in-charge					
23.3.2		150 mm nominal dia	metre	74.00	625.19	46263.80	
66	DSR 23.4	Supplying, assembling, lowering and fixing in vertical position in borewell, unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS:12818, including required hire and labour charges, fittings and accessories etc. all complete, for all depths, as per direction of Engineer-in-charge					
23.4.2		150 mm nominal dia	metre	12.00	636.38	7636.58	
67	DSR 23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the Recharge Pit, over the existing layer boulders in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge	cu-m	6.00	1212.35	7274.08	

Sl. No.	DESCRIPTION	UNIT	Qty.	Rate without GST (in Rs.)	Cost without GST (in Rs.)	Remarks
DSR 23.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:					
23.13.2	150 mm dia	each	2.00	194.24	388.47	
69 DSR 23.14	Providing & fixing MS clamp of required dia to the top of housing/casing pipe of, removable as per tubewell as per IS:2800(part-I), including necessary bolts & nuts of required size complete					
23.14.2	150 mm clamp	each	2.00	1591.29	3182.58	
70 DSR 23.15	Providing & fixing Ball plug/ bottom plug of required dia to the bottom of pipe assembly as per IS:2800(part-I),			0.00	0.00	
23.15.2	150 mm dia	each	2.00	253.78	507.56	
G	DRAINAGE FOR RAIN WATER					
71 DSR 2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50m:					
2.10.1	All kinds of soil					
2.10.1.2	Pipes, cables etc, exceeding 80mm dia but not exceeding 300mm dia	Metre	97.00	277.54	26921.61	
72 DSR 19.6	Providing and laying non -pressure NP2 class R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 including testing of joints etc.					
19.6.2	150 mm dia R.C.C. pipe	Metre	97.00	438.56	42540.25	
73 DSR 19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement: 4 coarse sand) R.C.C top slab with 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement: 4 coarse sand: 8 graded stone aggregate 40mm nominal size) inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design:					
19.7.1	Inside size 90x80cm and 45cm deep including C.I cover with frame (light duty) 455x610mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg)					
19.7.1.1	With common burnt clay F.P.S (non modular) bricks of class designation 7.5	Each	1.00	10064.92	10064.92	
74 DSR 19.8	Extra for depth for manholes					
19.8.1	Size 90x80cm					
19.8.1.1	With F.P.S bricks class designation 7.5	Metre	0.15	6955.61	1043.34	
75 DSR 19.30	Constructing brick masonry chamber for underground C.I inspection chamber and bends with 7.5 class designation bricks in cement mortar 1:4 (1 cement: 4 coarse sand) C.I cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) R.C.C top slab with 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size) foundation concrete 1:5:10 (1 cement: 5 fine sand: 10 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:					
19.30.1	Inside dimensions 455x610mm and 45cm deep for single pipe line:					
19.30.1.1	With F.P.S bricks	Each	10.00	5468.01	54680.08	
76 DSR 19.31	Extra for depth beyond 45cm of brick masonry chamber:					
19.31.1	For 455x610mm size					
19.31.1.1	With F.P.S bricks	Metre	1.00	4821.03	4821.03	
Total Cost without GST					91813262.94	0.00
Total GST@18%					16526387.33	
Total Estimated Cost inclusive of GST@18%					108339650.27	
Total cost without GST after deduction-As per LOA 1-16.12%					77012964.95	
Total GST@18%					13862333.69	
Total cost inclusive of GST@18%					90875298.65	

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