



इरकॉन इन्टरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)
An integrated Engineering and Construction Company



No. IRCON/ELECT/5017/NELS.DD/CIVIL/OT/38/02/412

Date: 27.04.2024

To,

M/s MRU Sewak Ram Construction Private Limited

A-108, Flex apartment,

C-58/22, Sector-62,

Noida (UP) - 201 301

Tele/Fax no. : - 0120 - 4124942

Mob - 09213780220

E-mail - sewakram64@yahoo.co.in

Dear Sir,

Sub:-Design, construction of Overhead Water Tank, Pumps & Treatment System, Sewerage Treatment Plant, Sewerage System / Cross Drainage Work, Rain Water Harvesting System, Fire Fighting, Road & Pathway, Landscaping and other Allied balance works, etc. in Connection with setting up of New Electric Loco shed at Daund, Sholapur Division, Central Railway (CR) - **Letter of Acceptance (LOA)**

Ref.:1) e-Procurement No.: IRCON/ELECT/5017/NELS.DD/CIVIL/OT/38 Date: 18.01.2024

2) Your e-Tender opened on 05.02.2024 and financial e-bid opened on 21.03.2024

3) Corrigendum No.01 dated 01.02.2024

1. The competent authority for and on behalf of Ircon International Limited has accepted your offer for a sum of Rs.13,50,06,075.65 (Rupees Thirteen Crore Fifty Lacs Six Thousand Seventy-Five & Sixty-Five Paise Only) inclusive of Goods and Services Tax (GST), other taxes, duties, levies etc. (Detailed Bill of Quantities is enclosed as Annexure-A) as per Clause no.7.0 of Special Conditions of Contract (SCC).



ONE EARTH • ONE FAMILY • ONE FUTURE

पंजीकृत कार्यालय : सी-4, डिस्ट्रिक्ट सेंटर, साकेत, नई दिल्ली - 110017, भारत
Registered Office : C-4, District Centre, Saket, New Delhi - 110017, INDIA
Tel. : +91-11-26530266 Fax : +91-11-26854000, 26522000 | E-mail : info@ircon.org Web : www.ircon.org
CIN : L45203DL1976GOI008171



2. You are requested to submit the following within 21 days of issue of this letter but before signing of the Agreement, whichever is earlier:
 - a. Performance guarantee for an amount of Rs.67,50,500/- (Rupees Sixty Seven Lacs, Fifty Thousand & Five Hundred only i.e. 5% of the contract value Rs.13,50,07,075.65) valid initially up to 27.07.2025 (i.e. stipulated date of completion plus 60 days beyond that) in the form detailed in Clause no.: 11.1 of Special Conditions of Contract (SCC).
 - b. Detail Programme for execution of Works as per Clause no.:9.3 of Special Conditions of Contract.
 - c. Signing of Contract Agreement with requisite value of stamp paper as per Clause no.: 13.0 of Special Conditions of Contract.
3. You are requested to attend office on or before 23.05.2024 for signing of the Contract Agreement (i.e. a date within 28 days of issue of this letter as per Clause no.13.0 of Special Conditions of Contract).
4. Taxes, Duties & Levies etc. and insurance shall be applicable as per Clause 7.0 and 10.0 respectively of SCC (Special Conditions of Contract).
5. The deduction of retention money shall be recovered from your on account bills @ 10% of the gross value of each on account bill till the sum total of retention money reaches 5% of the contract value of the work (Clause No.11.1 of Special Condition of Contract).
6. The mode of payment, payment terms & Tax Deduction at Source (TDS) shall be made in accordance as per Clause 24.0 of SCC. The Contractor should issue Tax Invoice showing IGST/CGST/SGST/UTGST as applicable.
7. You are requested to commence the work immediately. The entire work shall be completed within a period of 13 (Thirteen) months from the date of issue of this LOA. The milestone deliverables shall be as per clause 12.2 of SCC.

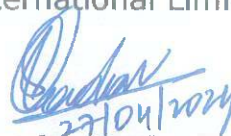


8. This letter of acceptance is being sent in duplicate. One copy may please be signed, stamped and returned to this office in token of unconditional acceptance.
9. All other terms and conditions contained in the e-Tender documents dated 18.01.2024 shall form part and parcel of the contract.
10. You are requested to contact "**Chief General Manager (Electrical) Ircon International Limited, 4th Floor, C-4, District Centre, Saket, New Delhi - 110 017**" for further instructions and future correspondence.

Please acknowledge the receipt,

Thanking You,

Yours Faithfully,
For & on behalf of
Ircon International Limited


27/04/2024

(Surender Yadav)

Chief General Manager/Electrical



Encl: - Annexure-A (Bill of Quantities/Schedule of Items) - 33 Pages

Copy to -

- 1) **Dy. General Manager/Fin:** B-40A, Sector-1, Noida (UP) - 201 301.



Design & Construction of OHT, buildings, drainage system & other ancillary works, etc at Daund

LOA No.:

IRCON/ELECT/5017/NELS.DD/CIVIL/OT/38/02/412

Date: 27.04.2024

SCHEDULE OF QUANTITIES / BILL OF QUANTITIES (BOQ)

Name of work : - Design, construction of overhead Water Tank, Pumps & Treatment System, Sewerage Treatment Plant, Sewerage System / Cross Drainage Work, Rain Water Harvesting System, Fire Fighting, Road & Pathway, Landscaping and other Allied balance works, etc. in Connection with setting up of New Electric Loco shed at Daund, Sholapur Division, Central Railway

Summary Sheet of Bill of Quantities

Sr. No.	Schedule	Description of Schedule	Estimated Cost (in ₹)	Rate quoted by Contractor as percentage above/ below / at par -over the estimated rates		Price (in ₹)
				Percentage in Figures	Percentage in Words	
1	2	3	4	5	6	7
1	("1" + "2"+ "3"+"4")	Design, construction of overhead Water Tank, Pumps & Treatment System, Sewerage Treatment Plant, Sewerage System / Cross Drainage Work, Rain Water Harvesting System, Fire Fighting, Road & Pathway, Landscaping and other Allied balance works, etc.	12,38,58,785.00	9.00	Nine point zero zero	₹ 13,50,06,075.65
					Total Price =	13,50,06,075.65



Bill of Quantities (BoQ)

Subject : - Design, construction of overhead Water Tank, Pumps & Treatment System, Sewerage Treatment Plant, Cross Drainage Work, Rain Water Harvesting System, Fire Fighting, Road & Pathway, Landscaping and other Allied in Connection with setting up of New Electric Loco shed at Daund, Sholapur Division, Central Railway

Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
PART-A - SCHEDULED ITEMS (AS PER DSR-2021)						
Chap-1: Earth Work						
1	1.1.2	Removal of excavated / slip earth / debris / malba from the site of works to any other place outside Railway land/premises, including all excavations, handling, ehandling, loading, unloading & leading etc. all labour and material as a complete job. Removal of Earth (all kinds of soils)/Rocks, Boulders including mud/slush, slipped earth in catch water drains, side drains, over berms in cutting.				
	a)	Upto 1Km lead	Cum	665.80	180.40	1,20,110.32
	b)	Upto 2Km lead	Cum	200.00	203.98	40,796.00
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 lift upto 1.5 m, as directed by Engineer-incharge.		-		
	2.6.1	All kinds of soils	Cum	3,602.99	205.45	7,40,234.83
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, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.		-		
	2.8.1	All kinds of soils	Cum	2,518.87	286.85	7,22,537.42
4	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m.		-		
	2.10.1	All Kind of Soil		-		
a	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. But not exceeding 300 mm dia	Meter	2,640.00	417.35	11,01,804.00
b	2.10.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	Meter	250.00	651.55	1,62,887.50
5	2.11	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).	Meter	400.00	127.00	50,800.00
6	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 m and lift upto 1.5 m.	Cum	853.66	253.95	2,16,788.07
7	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials		-		
	2.26.1	All kinds of soil	Cum	738.28	104.50	77,150.26



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
8	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	cum	336.48	2,161.20	7,27,197.98
9	2.28	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.		-		
	2.28.1	All kinds of soil	sqm	25,200.00	28.15	7,09,380.00
10	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	sqm	1,000.00	14.50	14,500.00
11	2.34.1	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	Litre	250.00	200.90	50,225.00
12	2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :		-		
a	2.35.1.1	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300mm including excavation channel along the wall & rodding etc. complete: With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	Meter	400.00	32.30	12,920.00
b	2.35.2.1	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.: With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	Meter	400.00	44.70	17,880.00
c	2.35.3.1	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: With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	Sqm	450.00	256.15	1,15,267.50
		Total Chap-1:				48,80,478.88
		Chap-3: Plain Concrete Work				
13	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				
	4.1.5	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)	Cum	76.96	6,833.40	5,25,915.55
14	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	686.09	6,326.05	43,40,242.11
15	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	sqm	194.75	370.85	72,224.30
16	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 of cement	623.81	57.15	35,650.85



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
17	4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg 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	70.00	113.85	7,969.50
		Total Chap-3:				49,82,002.31
		Chap-4: RCC Work				
18	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 leads; 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 1.10 times of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement..		-		
	5.33.1	All works upto plinth level :				
a	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	1,508.83	8683.80	1,31,02,374.78
b	5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum	141.87	8825.35	12,52,023.28
	5.33.2	All works above plinth and upto floor V level		-		
c	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	330.88	10306.20	34,10,103.67
d	5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum	231.23	10477.75	24,22,719.76
19	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	quintal	737.69	688.45	5,07,859.90
20	5.38	Extra for R.C.C./ B.M.C/ R.M.C. work above floor V level for each four floors or part thereof.	cum	462.00	280.95	129798.90
		Form work		-		
21	5.9	Centering and shuttering including strutting, propping etc. and removal of form for		-		
a	5.9.1	Foundations, footings, bases of columns, raft foundation of washable aprons, Pile caps, Footings of FOB etc.	Sqm	1,049.14	307.95	3,23,082.36
b	5.9.2	Walls (any thickness) including attached plasters, buttresses, plinth and string courses etc.	Sqm	1,785.44	669.55	11,95,441.35
c	5.9.3	Suspended floors, roofs, landings, balconies, FOB slabs, walkway slabs and access platform	Sqm	1,241.63	766.55	9,51,774.20
d	5.9.5	Lintels, beams, plinth beams, bed blocks, girders, bressumers and cantilevers	Sqm	3,397.89	608.35	20,67,107.84
e	5.9.6	Columns, pillars, , posts and struts	Sqm	1,932.93	804.25	15,54,554.93
f	5.9.7	Stairs (excluding landings) except spiral-staircases	Sqm	18.93	657.75	12,453.18
g	5.9.14	Extra for shuttering in circular work (20 % of respective centring and shuttering items)	Sqm			
	5.9.3	Bottom slab	Sqm	271.36	153.31	41,602.02
	5.9.2	Perpherial wall	Sqm	222.31	133.91	29,769.80
	5.9.6	Columns	Sqm	741.83	160.85	1,19,322.55



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
22	5.11	Extra for additional height in centering, shuttering wherever required with adequate bracing, propping etc. including cost of de-shuttering and de-centering at all levels, over a height of 3.5m, for every additional height of 1 metre or part thereof in Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)		-		
	5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	5,008.66	319.25	15,99,015.73
23	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level/above plinth level		-		
a	5.22.6 & 5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more	Kg	2,23,612.53	89.65	2,00,46,863.01
		Total Chap-4:				4,87,65,867.26
Chap-5: Brick Work						
24	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	24.20	6,658.25	1,61,129.65
25	6.34	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :		-		
	6.34.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	501.89	7676.30	38,52,695.11
26	6.45	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level.		-		
	6.45.2	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	Sqm	35.28	969.65	34,210.61
		Total Chap-5:				40,48,035.36
Chap-7: Wood work						
26	9	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately)				
	9.1.2	Sal wood	Cum	2.20	1,06,720.85	2,34,785.87
27	9.6	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), fixing with butt hinges of required size with necessary screws, all complete as per directions of Engineer- in-charge and panelling with panels of : (Note:- Butt hinges and necessary screws shall be paid separately)				
28	9.6.3	12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade -1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade -1, Type II marked :	Sqm	4.50	3,070.05	13815.23
29	9.83	Providing and fixing IS: 3564 marked aluminium die cast body tubular type universal hydraulic door closer, hardwyn make (Classic Queen) or equivalent with necessary accessories and screws etc. complete	Each	5.00	1,025.65	5128.25
30	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc.		-		



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
	9.96.2	250x16 mm	Each	12.00	234.90	2818.80
31	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 :		-		
a	9.97.2	250 x 10 mm	Each	9.00	104.40	939.60
b	9.97.3	200 x 10 mm	Each	9.00	90.80	817.20
32	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.		-		
	9.100.1	125 mm	Each	14.00	60.05	840.70
33	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.		-		
	9.101.1	Single rubber stopper	Each	14.00	35.50	497.00
34	9.103	Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of 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. (Best make of approved quality).	Each	11.00	739.80	8137.80
				-		
		Total Chap-7:				2,67,780.45
		Chap-8: Steel & Aluminium work				
35	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 :				
	19.15.1	With 20 x 20 mm square bar	Each	75.00	461.35	34,601.25
36	21.1	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS:733 and IS:1285, anodised transparent or dyed to required shade according to IS:1868 (Minimum anodic coating of grade AC 15),		-		
		fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle. Aluminium snap beading for glazing/ panelling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately)		-		
	21.1.1.1	For fixed portion		-		
a	21.1.1.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	Kg	365.03	474.70	1,73,277.65
b	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)		-		



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
c	21.1.2.3	Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	Kg	419.15	573.40	2,40,340.16
37	21.2	Providing and fixing 12 mm thick prelaminate particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge		-		-
	21.2.1	Pre-laminated particle board with decorative lamination	Sqm	27.32	965.10	26,366.53
38	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item)		-		
	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	Sqm	75.22	1,325.55	99,710.52
39	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	86,822.18	111.95	97,19,742.79
40	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.		-		
	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	111.03	3008.80	3,34,073.08
41	10.7	Providing and fixing ball bearing for rolling shutters	Each	16.00	424.26	6,787.20
42	10.8	Extra for providing mechanical device chain and crank operation for operating rolling shutters		-		
a	10.8.1	Exceeding 10.00Sqm and upto 16.80 Sqm. in the area	Sqm	32.20	1108.70	35,700.14
b	10.8.2	Exceeding 16.80 sqm in area	Sqm	48.04	1108.70	53,261.95
43	10.14	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge:		-		
		Profile-B		-		
	10.14.1.1	Fixing with adjustable lugs with split end tail to each jamb	metre	6.00	444.50	2,667.00



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
44	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.		-		
	10.16.1	Hot finished welded type tubes	Kg	100.00	154.90	15,490.00
45	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.		-		
	10.26.1	M.S. tube	Kgs	400.00	157.15	62,860.00
46	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel	Kgs	500.00	612.25	3,06,125.00
47	16.53	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 arbed tape(R.B.T.) / Spring core (2.5mm 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 shall be paid separately)	metre	150.00	303.65	45,547.50
48	16.70	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.		-		
	16.70.1	Made of G.I. wire of dia 4 mm	sqm	672.00	859.50	5,77,584.00
		Total Chap-8:				1,17,34,134.78
Chap-9: Flooring, Paving & Dado						
49	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				
	8.2.2	Granite stone slab of colour black, Cherry/Ruby red				
a	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	29.55	4,679.35	1,38,251.40
b	8.2.2.2	Area of slab over 0.50 sqm	Sqm	109.49	4,425.35	4,84,520.51
49	8.3	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	8.3.2	Granite work	metre	100.00	418.85	41,885.00



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
51	8.4	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete	metre	20.00	475.55	9,511.00
52	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	96.71	1,063.45	1,02,843.06
53	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:		-		
	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	8.16	2015.75	16,448.52
54	11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	1,970.00	855.90	16,86,123.00
55	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge.		-		
a	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)	Sqm	10.00	1,515.45	15,154.50
	11.21.1.1	Acid and alkali resistant tile		-		
b	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof		-		
	11.21.2.1	Acid and alkali resistant tile	sqm	5.00	1,637.70	8,188.50
56	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)		-		
	11.26.1	25 mm thick	Sqm	116.88	1,706.60	1,99,467.41
57	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 and polishing complete.	Sqm	28.21	2,038.55	57,497.30



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
58	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	31.41	935.60	29,384.34
59	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.	-	-	-	-
	11.41.2	Size of Tile 600x600 mm	Sqm	502.51	1,416.65	7,11,875.62
60	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.	-	-	-	-
	11.46.2	Size of Tile 600x600 mm	Sqm	27.48	1,466.50	40,295.02
61	16.45	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:1838 for fibre board and IS: 1834 for hot sealing bitumen compound grade A.)	per cm with per cm depth /mtr.	5,000.00	4.70	23,500.00
62	16.50	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acrylonitrile) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degrees to base .The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity	Each	400.00	175.50	70,200.00
63	16.11	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	sqm	420.00	821.95	3,45,219.00
64	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	150.00	8,613.55	12,92,032.50



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
65	16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper		-		
	16.91.1	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	sqm	600.00	932.35	5,59,410.00
66	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 chieve the desired density, complete as per specifications and		-		
	16.78.2	With material conforming to Grade-II (size range 53 mm to 0.075 mm) having CBR Value-25	Cum	931.87	2,775.65	25,86,551.90
Total Chap-9:						84,18,358.58
Chap-10 : Roofs & Ceiling						
67	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, (i) Single socketed pipes.				
	12.41.2	110 mm diameter	metre	187.00	319.75	59,793.25
68	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.		-		-
	12.42.5.2	Bend 87.5° 110 mm bend	Each	70.00	132.00	9,240.00
69	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	110mm	Each	128.00	309.50	39,616.00
70	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	36.00	47.90	1,724.40
71	12.50	Providing and fixing precast galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired, by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	2,566.20	671.55	17,23,331.61



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
72	12.51	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :		-		-
a	12.51.1	Ridges plain (500 - 600mm)	metre	114.00	450.60	51,368.40
b	12.51.2	Flashings/ Aprons. (Upto 600 mm)	metre	170.00	412.85	70,184.50
c	12.51.3	North light curves	metre	-	465.25	-
d	12.51.4	Barge board (Upto 300 mm)	metre	-	384.20	-
e	12.51.5	Crimp curve	sqm	176.00	422.50	74,360.00
f	12.51.6	Gutter (600 mm over all girth)	metre	248.00	1110.60	2,75,428.80
		Total Chap10:				23,05,046.96
		Chap-11 : Finishing work				
73	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	13.2.2	1:6 (1 cement: 6 fine sand)	Sqm	2,294.18	324.30	7,44,003.87
74	13.1	12 mm cement plaster of mix -		-		-
	13.1.2	1:6 (1 cement: 6 fine sand)	Sqm	2,559.92	282.00	7,21,896.06
75	13.7	12 mm cement plaster finished with a floating coat of neat cement :		-		-
	13.7.2	1:4 (1 cement: 4 fine sand)	Sqm	1,100.00	361.30	3,97,430.00
76	13.16	Cement plaster to ceiling of mix -		-		-
	13.16.1	6 mm thick 1:3 (1 cement: 3 fine sand)	Sqm	1,855.93	253.05	4,69,642.87
77	13.18	Neat cement punning	Sqm	259.95	67.80	17,624.39
78	13.22	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	Sqm	6,205.12	72.80	4,51,732.94
79	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	2,478.25	214.30	5,31,087.92
80	13.29	18 mm thick plain cement mortar band in cement mortar 1:4 (1 cement : 4 fine sand):		-		-
	13.29.3	Raised Band	cm per metre	2,000.00	9.55	19,100.00
81	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade		-		-
	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	3,068.66	162.55	4,98,810.21
82	13.48A	Finishing walls with 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives.		-		-
	13.48A.1	New work (Two or more coats applied @ 1.43 litre/ 10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.	Sqm	14,749.38	154.45	22,78,042.36
83	13.45	Finishing walls with textured exterior paint of required shade :		-		-
	13.45.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	Sqm	2,058.97	245.00	5,04,448.14
84	13.48.3	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand and manufacture	Sqm	1,640.63	140.05	2,29,770.79
		Total Chap-11:				68,63,589.56
		Chap-13: Water Supply				
85	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the				
		Internal work - Exposed on wall				



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
a	18.10.4	32 mm dia. nominal bore	metre	25.00	563.60	14,090.00
b	18.10.5	40 mm dia. nominal bore	metre	25.00	725.15	18,128.75
c	18.10.6	50 mm dia. nominal bore	metre	25.00	893.20	22,330.00
86	18.11	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :		-		-
a	18.11.1	15 mm dia. nominal bore	metre	50.00	485.20	24,260.00
b	18.11.2	20 mm dia. nominal bore	metre	10.00	541.10	5,411.00
87	18	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.		-		-
a	18.12.1	15 mm dia nominal bore	metre	50.00	267.50	13,375.00
b	18.12.3	25 mm dia nominal bore	metre	100.00	417.95	41,795.00
c	18.12.4	32 mm dia nominal bore	metre	40.00	457.70	18,308.00
d	18.12.6	50mm dia. nominal bore	metre	467.00	654.20	3,05,511.40
e	18.12.8	80mm dia. nominal bore	metre	45.00	919.10	41,359.50
88	18.13	Making connection of medium grade G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete		-		-
a	18.13.1	25 to 40 mm nominal bore	Each	21.00	757.10	15,899.10
b	18.13.2	50mm to 80mm nominal bore	Each	6.00	1,513.70	9,082.20
89	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)		-		-
a	18.17.1	25mm nominal bore	Each	10.00	532.35	5,323.50
b	18.17.2	32 mm nominal bore	Each	5.00	589.90	2,949.50
c	18.17.3	40 mm nominal bore	Each	2.00	707.30	1,414.60
d	18.17.4	50 mm nominal bore	Each	9.00	878.25	7,904.25
e	18.17.6	80mm nominal bore	Each	2.00	2,227.60	4,455.20
90	18.19	Providing and fixing gun metal non- return valve of 32 mm nominal bore approved quality (screwed end)		-		-
a	18.19.1	25 mm nominal bore		-		-
b	18.19.1.2	Vertical	Each	2.00	573.50	1,147.00
91	18.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main		-		-
	18.20.3	25mm nominal bore	Each	5.00	447.00	2,235.00
92	18.28	Providing lead caulked joints to spun iron or C.I. pipes and specials, including testing of joints but excluding the cost of pig lead :		-		-
a	18.28.1	100mm dia. Pipe	Each	85.00	410.25	34,871.25
b	18.28.3	150mm dia. Pipe	Each	15.00	615.75	9,236.25
93	18.30	Providing flanged joints to double flanged C.I./ D.I. pipes and specials, including testing of joints :		-		-
a	18.30.2	100mm dia. Pipe	Each	10.00	284.75	2,847.50
b	18.30.4	150mm dia. Pipe	Each	10.00	343.55	3,435.50
				-		-
94	18.31	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :				
	18.31.1	100 mm diameter				
a	18.31.1.2	Class II	Each	13.00	4,500.25	58,503.25
	18.31.3	150 mm diameter				
b	18.31.3.2	Class II	Each	2.00	6,661.80	13,323.60
95	18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal				
	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	25.00	10,102.50	2,52,562.50



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
96	18.35	Constructing masonry Chamber 120x120x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5	Each	3.00	24,388.85	73,166.55
97	18.41	Providing and filling sand of grading zone V or coarser grade, allround the G.I. pipes in external work				
a	18.41.3	25mm dia. Pipe	metre	100.00	164.10	16,410.00
b	18.41.6	50mm dia. Pipe	metre	50.00	176.90	8,845.00
c	18.41.8	80mm dia. Pipe	metre	45.00	287.70	12,946.50
b	18.41.9	100mm dia. Pipe	metre	550.00	304.75	1,67,612.50
d	18.41.10	150 mm dia pipe	metre	45.00	453.95	20,427.75
98	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
a	18.46.3	25mm nominal bore	Each	10.00	369.35	3,693.50
b	18.46.6	50mm nominal bore	Each	8.00	706.70	5,653.60
c	18.46.8	80 mm nominal bore	Each	3.00	1,061.25	3,183.75
99	18.53.1	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931	Each	7.00	500.35	3,502.45
100	18.59	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :				
	18.59.1	50 mm dia	Each	4.00	5,171.75	20,687.00
101	18.72	Providing and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS : 8329 :		-		-
a	18.72.15	100 mm dia Ductile Iron Class K-9 pipes	metre	790.00	1,081.35	8,54,266.50
b	18.72.16	150mm dia. Ductile Iron Class K - 9 pipes	metre	50.00	1,625.05	81,252.50
102	18.73	Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 :		-		-
a	18.73.1	100mm dia. Ductile Iron Double Flanged	metre	45.00	1,541.60	69,372.00
b	18.73.2	150mm dia. Ductile Iron Double Flanged	metre	45.00	2,312.90	1,04,080.50
103	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	6.00	434.20	2,605.20
104	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.		-		-
	18.52.1	15 mm nominal bore	Each	4.00	594.75	2,379.00
105	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.	Each	-		-
	18.50.1	15 mm nominal bore		1.00	715.05	715.05
106	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :		-		-
a	18.46.1	15mm nominal bore	Each	5.00	262.30	1,311.50
b	18.46.2	20mm nominal bore	Each	2.00	289.05	578.10
c	18.46.3	25mm nominal bore	Each	2.00	369.35	738.70
d	18.46.4	32mm nominal bore	Each	3.00	409.45	1,228.35
e	18.46.5	40mm nominal bore	Each	2.00	523.20	1,046.40
f	18.46.6	50mm nominal bore	Each	2.00	706.70	1,413.40
107	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 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.	Per litre	2,000.00	9.70	19,400.00



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
108	19.19	Providing and fixing in position precast R.C.C. manhole cover and frame of required shape and approved quality.		-		-
	19.19.1	LD-2.5		-		-
	19.19.1.1	Rectangular shape 600 x 450 mm internal dimensions	Each	3.00	1,255.25	3,765.75
109	23.10	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part 1), 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	metre	390.00	592.05	2,30,899.50
110	23.2	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part 1), 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		-		-
	23.2.1.1	300 mm dia	metre	60.00	690.70	41,442.00
111	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	metre	90.00	553.20	49,788.00
	23.3.3	200 mm nominal size dia.	Meter	150.00	951.95	1,42,792.50
112	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.		-		-
a	23.4.1	100 mm nominal size dia	metre	60.00	579.95	34,797.00
b	23.4.3	200 mm nominal size dia.	Meter	150.00	1,099.25	1,64,887.50
113	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.	cum	10.00	1,302.30	13,023.00
114	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge	cum	10.00	1,309.00	13,090.00
115	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	10.00	1,309.00	13,090.00
116	23.8	Gravel 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.	cum	25.60	1,479.25	37,865.10



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
117	23.9	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.	each	25.00	1,213.25	30,331.25
118	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	hour	50.00	916.80	45,840.00
119	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:		-		-
	23.13.1	100 mm dia	each	1.00	189.65	189.65
120	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.		-		-
	23.14.1	100 mm clamp	each	1.00	1,522.50	1,522.50
121	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).		-		-
a	23.15.1	100 mm dia	each	1.00	228.25	228.25
b	23.15.3	200 mm dia	each	4.00	308.55	1,234.20
		Total Chap-13:				32,31,060.85
		Chap-15: Sanitary Installation				
122	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:		-		-
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	1.00	5,781.35	5,781.35
123	17.20	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :		-		-
	17.2.1	W.C. pan with ISI marked white solid plastic seat and	Each	1.00	5,540.55	5,540.55
124	17.5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :		-		-
	17.5.1	Single half stall urinal with 5litre P.V.C. automatic flushing cistern	Each	1.00	10,128.30	10,128.30



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
125	17.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:		-		-
	17.7.2	white vitreous china wash basin size 630x450mm with a single 15mm C.P. brass pillar taps	Each	2.00	1,913.75	3,827.50
126	17.35	Providing and fixing soil, waste and vent pipes		-		-
	17.35.1.2	100mm dia. Centrifugally cast (spun) iron S&S pipe as per IS:3989	metre	-	1,077.40	-
127	17.37	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :		-		-
	17.37.1	For 100mm dia pipe	Each	-	308.45	-
128	17.39	Providing and fixing plain bend of required degree				
	17.39.1	100 mm dia				
	17.39.1.1	Sand cast iron S&S as per IS - 1729	Each	-	412.95	-
129	17.40	Providing and fixing heel rest sanitary bend				
	17.40.1	100 mm dia				
	17.40.1.1	Sand cast iron S&S as per IS-1729	Each	-	513.30	-
130	17.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
	17.43.1	100x100x100 mm				
	17.43.1.1	sand cast iron S&S as per IS-1729	Each	3.00	671.20	2,013.60
131	17.57	Providing and fixing collar				
	17.57.1	100 mm				
	17.57.1.1	Sand cast iron S&S as per IS-1729	Each	-	399.60	-
132	17.58	Providing lead caulked joints to sand cast iron/ centrifugally cast (spun) iron pipes and fittings of diameter		-		-
	17.58.1	100mm	Each	-	549.65	-
133	17.59	Providing and fixing M.S. stays and clamps for sand cast iron/ centrifugally cast (spun) iron pipes of diameter				
	17.59.1	100mm	Each	-	128.65	-
134	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
	17.60.1	100mm inlet and 100mm outlet				
	17.60.1.1	Sand cast iron S&S as per IS: 3989	Each	6.00	1,604.10	9,624.60
135	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	3.00	1,411.15	4,233.45
136	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour				
	17.73.1	450 mm long towel rail with total length of 495 mm, 78 mm wide and effective height of 88 mm, weighing not	Each	3.00	573.60	1,720.80
137	19.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design		-		-
a	19.3.2	150 mm diameter S.W. pipe	Metre	270.00	689.75	1,86,232.50
b	19.3.5	300 mm diameter S.W. pipe	Metre	665.00	1089.1	7,24,251.50



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
138	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete ;		-		-
a	19.6.2	150 mm diameter	Metre	295.00	493.1	1,45,464.50
b	19.6.4	300 mm diameter	Metre	935.00	902.05	8,43,416.75
c	19.6.5	450 mm diameter	Metre	130.00	1481.55	1,92,601.50
d	19.6.6	500 mm diameter	Metre	-	1745.2	-
e	19.6.7	600 mm diameter	Metre	120.00	2098.1	2,51,772.00
139	19.7	Constructing brick masonry manhole with bricks in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1 : 4 : 8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick cement mortar 1 : 3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making channels in cement concrete 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :		-		-
	19.7.1	Inside size 90 x 80 and 45 cm deep including C.I. Cover with (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg)		-		-
	19.7.1.2	sewer brick conforming to IS:4885	Each	40.00	11567	4,62,680.00
140	19.8	Extra for depth for manholes				
		Size 90 X 80 cm				
	19.8.1.2	sewer brick conforming to IS:4885	Metre	12.00	7777.7	93,332.40
141	19.9	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4		-		-
	19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :		-		-
	19.9.1.2	With sewer brick conforming to IS:4885	each	66.00	11666.9	7,70,015.40
142	19.10	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m				
	19.10.2	With sewer brick conforming to IS:4885	metre	25.00	6693.95	1,67,348.75



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
143	19.11	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :		-		-
	19.11.1	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :		-		-
	19.11.1.2	With Sewer bricks conforming IS : 4885	each	9.00	22463.9	2,02,175.10
144	19.12	Extra depth for circular type manhole 1.22 m internal dia (at bottom) beyond 1.68 m to 2.29 m :		-		-
	19.12.2	With Sewer bricks conforming IS : 4885	metre	4.00	8686.1	34,744.40
145	19.15	Providing MS foot rests including fixing in manholes with 20x20x10 cm cement concrete block 1:2: 4(1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) as per design.		-		-
	19.15.1	With 20x20mm square bar.	Each	625.00	461.35	2,88,343.75
146	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.	cum	10.00	1,302.30	13,023.00
		Total Chap-15:				44,18,271.70
		Chapter 16 Water proofing				
147	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 a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.				
		b)Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.bs.				



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
		c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge.				
		d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.				
		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 :				
	22.7.1	With average thickness of 120mm and minimum thickness at khurra as 65mm.	Sqm	619.39	1,522.95	9,43,299.25
148	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		-		-
a	22.23.1	For vertical surface two coats @ 0.70 kg per sqm	Sqm	223.36	406.25	90,738.38
b	22.23.2	For horizontal surface one coat @ 1.10 kg per sqm.	Sqm	222.19	311.50	69,213.31
		Total Chap-16:				11,03,250.93
Chapter 17 Dismantling & demolishing						
149	15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge	cum	50.00	2,928.10	1,46,405.00
150	15.5	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-in- charge.	Sqm	48.00	947.10	45,460.80
151	15.7	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.		-		-
	15.7.4	In cement mortar	cum	50.00	1,698.45	84,922.50
152	15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	500.00	45.05	22,525.00
		Total Chap-17:				2,99,313.30
		Total Schedule-1 (Chap-1 to 17):				10,13,17,190.93
Non - schedules Items (Schedule - "2")						



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
153	NS 1	Earthwork in filling in Embankment Fill and Top Layer of formation including trolley refuges, etc with earth of approved quality as per RDSO Guidelines and specifications for Design of Formation For Heavy Axle Load , Nov 2009 for 25 T Axle Load (using SQ1/SQ2/SQ3/ Soil with CBR value of 3 or more in Lower Embankment Fill and using either SQ1 with CBR value of 4 or more generally but not less 3 in isolated cases in Top Layer of 1 meter thickness or SQ2/SQ3 soil with CBR value of 6 or more generally but not less than 5 in isolated cases in Top Layer of 0.5 meter thickness), including site clearances , setting out and demarcation, benching, initial compaction of subsoil after levelling the surface after site clearance, spreading loose earth in 30 CM layers using grader upto extra width of 0.5 meter beyond designed profile, compaction using vibratory compactors so as to achieve minimum in situ dry density of 98% of MDD, top and side dressing and removal of extra earth from sides to provide final formation as per designed profile as per RDSO guidelines. The rate shall include cutting of trees with girth upto 30 CM, required testing, making good the pockets and depressions left in soil during clearing and uprooting of jungle/trees at site and one round of heavy rolling of sub-soil thereafter. The rate shall not include cutting of trees girth beyond 30 CM which shall be paid separately. The minimum Ev2 Criteria as mentioned in the guidelines is not applicable.	cum	3,000.00	713.49	21,40,470.00
154	NS 2	Providing and fixing 75mm dia stabiliser pipe/PVC soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete	Running Metre	25.00	554.26	13,856.50
155	NS 3	Providing and fixing 100mm dia stabiliser pipe/PVC soil vent/waste pipe and with necessary fixtures and fitting such as bends, tees, single junctions, slotted vent, clamps etc. complete	Running Metre	25.00	744.17	18,604.25
156	NS 4	Providing and fixing 8/10 cm rigid PVC Nahani trap including PVC grating , bend connecting piece of UPVC pipe upto the outside face of wall making the good damaged surface and testing etc. complete (Prior approval of sample and brand by Ex. Engr. Is necessary before use)	Each	6.00	522.24	3,133.44
157	NS5	Providing and fixing double flanged CI duck foot bends 90 degree (Heavy class).				
		100 mm dia bend	Each	12.00	635.84	7,630.08
158	NS6	Conducting Low Strain Integrity test on 600 mm diameter R.C.C bored cast in situ piles, data analysis & submission of 2 copies of report.	Each Test	52.00	1,422.44	73,966.88
159	NS7	Pile Testing using High Strain Dynamic Vertical Load Test method as per ASTM D4945 standards, on concrete bored cast- in-situ piles of 600/500mm diameter including all necessary set-up equipment, strain gauges, and preparation of pile head as per specifications and as directed by engineer-in-charge				
		For Single Pile-Routine Test	Each Test	2.00	1,22,324.51	2,44,649.02



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
160	NS 8	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: (Bricks of Class designation 5 to be used)				
		Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	178.72	5,998.69	10,72,105.07
161	NS 9	Supplying Installation, Testing & commissioning submersible pump electric driven complete of 3 phase , 415V,50Hz with 80000 LPH at 120 mtr head including internal 6 inch dia (150 mm) submersible pump complete inclusive of all necessary accessories including LT control pannel comprising Incoming MCCB,star delta starter ,ampere meter,voltmeter etc,complete in all respect (Submersible pump of Make-KSB or equivalent).	each	1.00	7,47,387.00	7,47,387.00
STP Related NS ITEMS						
		MBR Plant Automated System				
162	NS 10	Supplying, installation, testing & ommissioning of Sewage Treatment Plant for the following duty (The Plant shall be automated with a central Control panel fully pre/site wired and with all power and control cables to all pumps and equipment including all instrumentation, level sensor other controls).				
		Nature of Sewage - Sewage from NELS/DD Building				
		Daily average flow - 50 cum/day				
		Nature of effluent - Sewage				
		Influent Characteristics				
		pH - 7-9				
		BOD5 - 300 mg/liter				
		S. Solids - 300 mg/liter				
		COD - 600 mg/liter				
		Oil & Grease - 50 mg/liter				
		Effluent discharge standard :				
		pH - 7.0 - 7.5				
		BOD5 - Less than 10 mg/liter				
		S. Solids - Less than 10 mg/liter				
		Reuse of STP treated water after treatment. Horticulture, Landscaping, irrigation, etc.				
		NOTE				
		(1) Contractor shall ensure submission of detailed GA drawings (Plan & Section), P & I diagram, schematic diagram for the above mentioned components and additional components such as inserts, puddle flanges, vent pipes etc. if so required for the complete automatic working of the STP and have it approved by the Owner / Consultants.				
		MECHANICAL WORKS FOR STP				
		Supply, installation, testing & commissioning of Screens				
		2 Nos.Stainless Steel Suitable Sized Manually operated Perforated Bar Screen made of SS 304 for RCC screen channel. One Screen with perforation of 8 mm should be installed in Screen Chamber and One circular in size with perforation of 4 mm.	Set	1.00	34,700.00	34,700.00



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
163	NS 11	Supply, installation, testing & commissioning of Submersible pumps with solid handling capacity upto 30 mm with C1 casing & C1 impeller complete with all accessories, motor of required capacity. The pumps shall be complete with Delivery header with, pressure gauge on delivery line with isolation level controller (with wiring) to control the level of Sump automatically. Pumps shall have following duty:		-		-
			Nos	2.00	70,350.00	1,40,700.00
		Pumps = 02 Nos.(1w + 1s)				
		Pumps Capacity : 3 m ³ /hr @ 8-10 m head				
		Make = Wilo				
164	NS-12	Supply, installation, testing & commissioning of Agitator Mechanism with Gear Box, suitable drive, SS shaft, SS Blades. The Agitator must provide Agitation in Anoxic Tank for about 30-50 rpm.	Nos	1.00	54,000.00	54,000.00
		Make = Universal / Actinic				
165	NS-13	Supply, installation, testing & commissioning of Fine Bubble Diffused Aeration System, 16 m ³ /hr capacity per diffuser in SBR Tank with piping	Lot	1.00	23,200.00	23,200.00
		Make : Actinic.				
166	NS-14	Supply, installation, testing & commissioning of Coarse Bubble Diffuser/grit , in EQT and SHT Tank with piping	Lot	1.00	18,000.00	18,000.00
		Make : Actinic.				
167	NS-15	Providing and fixing all piping of required MOC as MS for Air Exposed and Balance as uPVC and isolation control valves for making the system complete.	Lot	1.00	2,83,100.00	2,83,100.00
		(Make: Jindal for MS & Prince for uPVC)				
168	NS-16	Supply, installation, testing & commissioning of MBR Package, Automated system with Diffused aeration system comprises of Air Blowers (1w+1s) of 125 m ³ /hr @ 0.5 kg/cm ² , EPDM air diffusers and air grid in PVDF MBR Modules shall be installed in reactor tank for clear water extraction. The Operation shall be automatic and PLC controlled with the help of automatic valves or by equipment arrangement. MBR cycle shall be auto controlled and shall be installed in reactor tank.. HMI shall be provided with PLC to make the system complete including motorised valves, pressure Gauges, Rotameters, etc.	Lot	1.00	20,46,000.00	20,46,000.00
		MBR output 2500 lph		-		
		MBR Module Make: Dupont / Qua		-		
		Blower Make: Everest / Roottech		-		
169	NS-17	Supply, installation, testing & commissioning of Sludge transfer pumps for sludge Feeding to Sludge holding tank complete with all the accessories, motor of required capacity. The pumps shall be complete with Base frame, Delivery header with pressure gauge on delivery line.	Nos	2.00	64,250.00	1,28,500.00
		Pumps = 02 Nos.(1w + 1s) Flow rate (each)				
		= 2 m ³ /hr				
		Head = 10 m				
		Make - kirloskar/M&P				



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
170	NS-18	Supply, installation, testing & commissioning of Sludge feed pumps for sludge Feeding to filter press complete with all the accessories, motor of required capacity. The pumps shall be complete with Base frame, Delivery header with pressure gauge on delivery line. Pumps = 02 Nos.(1w + 1s) Pump Capacity : 1 m ³ /hr @ 10 m head Make - Kirloskar	Nos	2.00	64,250.00	1,28,500.00
171	NS-19	Supplying, installation, testing and commissioning of Chemical dosing system comprising of Sintex Tank with inlet/outlet connection, piping and valves alongwith metering pump for dosing. (pumps 2 No, capacity - 0-4 LPH, tank - 100 lit HDPE) (Make for Dosing Pump ; Milton Roy)	Set	1.00	24,650.00	24,650.00
172	NS-20	Supplying, installing, testing, commissioning of Centrifuge of 18" diameter size for the dewatering of sludge generated per day with poly dosing system. Make: Actinic / Universal	Set	1.00	2,41,900.00	2,41,900.00
173	NS-21	Supplying, installing, testing & commissioning of centrifugal Pumps- CI body, SS Impeller, SS Shaft, MBR Suction Pump & Treated Water Pumps along with motor, pressure gauge with isolation cock, Isolation valve, NRV on delivery line. Isolation valve, stainer at suction. The pump shall be suitable for 415±10% volts 3 phase AC supply. MBR Suction pumps : Capacity : 2.5 Cum/hr, Head : 30 Mtrs No. of Pumps (2 Nos. - 1 W + 1 S) Make : Kirloskar / Wilo	Nos	2.00	64,250.00	1,28,500.00
174	NS-22	Treated water transfer pumps Capacity : 8.0 Cum/hr. Head : 35 Mtrs No. of Pumps (2 Nos. - 1 W + 1 S) Make : Kirloskar/Wilo		-		-
			Nos	2.00	88,900.00	1,77,800.00
175	NS-23	Supplying, installing, testing and commissioning of Oil Skimmer which shall include Belt of atleast 200 mm width, Gear Box, 0.25 hp Motor drive in single phase and standard fittings.	Set	1.00	77,250.00	77,250.00
176	NS-24	Supplying, installing, testing and commissioning of FRP Vessel Dual Media Filter followed by Micron Cartridge Filter / Bag Filter with frontal piping and associated valves and accessories. Filter shall be suitable for minimum working pressure of 2.5 kg / cm ² and shall include media, standard fittings like pressure gauges, sampling cock, rinse drain, vacuum breaker etc. Dual Media Filter Anthracite & Sand Media based Flow rate : 2.5 Cum/hr Filtration velocity : 15 cum/hr/sqm Filter Size : Dia 18" & HOS 65".	Set	1.00	84,350.00	84,350.00
177	NS-25	Supply, installing, testing & commissioning of ultraviolet dis-infection unit. The unit shall have over 99.9 % bacterial reduction from inlet to outlet. The dis-infection chamber shall be constructed of SS on all wetted parts. The Lamp life should be 8000 hours.				



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
		ii)The UV unit shall have with reactor, cabinet housing, cabinet cooling, treatment chamber, electrical panel, lampout alert. The UV Dosage should be > 30,000 uW – Sec / sq.cm. The lamps should be selected based upon the flow requirement of respective unit. Capacity : 2.5 m3/hr Make : Alfa	Set	1.00	1,41,500.00	1,41,500.00
178	NS-26	Design, installation, testing and commissioning of the following integrated, cubicle type, dead front, extensible, sheet steel PLC based with touch screen & in built remote controlling operation control panel anchoring to the foundation. The panel shall be suitable for 500 volts, 50 cycles, 4 wire, supply. Quoted price shall include, 25 mm thick rubber mats, wiring, cabling, cable tray, control wiring and copper earthing from control panel to various equipment like motor starters pump motors etc. The panel shall have separate compartments for bus bar and cable alleys. The following components and accessories shall be mounted within each control panel. i. One No. 160 .amps TP incoming MCCB complete with the following: ii. 0-500 volts 96x96 square mm voltmeter with selector switch and fuses . 1 SET iii. 0-100 amps 96x96 square mm ammeter with 300/5 amps ratio CT's and selector switch 1 SET iv. pH meter with sensor. 1 SET.		1.00	4,63,200.00	4,63,200.00
		iv. Phase indicating lamps with toggle switches.				
		iv. Indication lamps for ON/OFF/TRIP status of motors. Aluminium bus bar sleeves type, rated atamps for three phase & neutral. OUTGOING FEEDERS / STARTERS Complete for the STP equipments as described above Spares TP MCCB's - 2 Nos. Control Panel as described above. The item should be complete with Copper flexible wiring on proper GI cable tray with GI Earthing wire of 8swg from motors to electrical panel. (The Power incomer to the Panel would be provided by Client)	Set			
179	NS-27	Supply, installing, testing & commissioning of Electro-Magnetic Flow meter at Inlet & Outlet of STP. The size should not be lesser than 1" (Make: Flowstar / UPC)	Nos.	2.00	47,600.00	95,200.00
180	NS-28	Supply, installation, testing & commissioning of Sewage Submersible Cutter pumps for Transferring Sewage from various pits to STP lines with CI casing & CI impeller complete with all accessories, motor of required capacity. The pumps shall be complete with Delivery header in uPVC, Cu Wiring within a PVC Conduit with level controller (with wiring) to control the level of Sump automatically & Electrical Panel to run the pump in a logic of One running on Low level & both running on high level. Pumps shall have following duty:				
		Pumps = 01 Set (1w + 1s)	Set	3.00	2,39,350.00	7,18,050.00
		Pumps Capacity : 10 m3/hr @ 15-16 m head				



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
		Make = Crompton				
181	NS-29	SITC of Exhaust Air Fan of atleast 24" Size for Ventilation of Plant Room. (Make: Crompton)	Set	1.00	11,100.00	11,100.00
182	NS-30	SITC of Fresh Air Fan of atleast 24" Size for Ventilation of Plant Room. (Make: Crompton)	Set	1.00	11,100.00	11,100.00
183	NS-31	Operation & Maintenance of STP with One Operator at site for General shift with required chemicals for 36 month period.	Month	36.00	49,300.00	17,74,800.00
FIRE EXTINGUISHERS & MISC. ITEMS						
184	NS-32	Providing and fixing Carbon-di-oxide fire extinguishers consisting of welded M.S cylindrical body, squeeze lever discharge valve fitted with internal discharge tube, 30cms long high pressure discharge hose, discharge nozzle, suspension bracket, conforming to IS : 15683 finished externally with red enamel paint and fixed to wall with brackets with rawl plug/dash fasteners complete with internal charge. Capacity 4.5 kg. ISI Marked.(Contractor should submit test certificate form manufacturer along with serial number of every extinguishers supplied.)	Nos	20.00	12,357.90	2,47,158.00
185	NS-33	Providing and fixing mechanical foam type (ISI marked) fire extinguishers consisting of welded M.S. cylindrical body squeeze lever discharge valve 30 cm long high pressure discharge hose, discharge nozzle suspension bracket ISI marked finished externally with red enamel paint and fixed to wall with brackets complete with internal charger.				
		9 liters capacity. (IS. 15683)	Nos	11.00	4,703.50	51,738.50
186	NS-34	Providing and fixing water Co2 (ISI marked) extinguishers including all accessories as per IS specification with wall bracket with rawl plug				
		Capacity 9 liters.(IS:15683)	Nos	20.00	3,967.50	79,350.00
187	NS-35	Providing and fixing ABC powder type fire extinguishers consisting of welded M.S. cylindrical body automatic modular ABC powder type extinguisher actuated through a sprinkler head mounted on The extinguisher body finished externally with red enamel paint and fixed to ceiling with brackets complete with internal charge. [For Transformer/DG/LT panel room]				
		Capacity 4 Kg.(IS:15683)	Nos	11.00	3,231.50	35,546.50
188	NS-36	Providing and fixing of self illuminated / auto glow "EXIT" signs printed on photoluminescent sheet containing self illuminated base chemical, of appropriate size not less than 400 x 150 mm, suspended from ceiling or fixed to the walls with accessories as required and as directed at site.	Nos	60.00	2,061.00	1,23,660.00
189	NS-37	Providing and fixing Carbon-di-oxide fire extinguishers consisting of welded M.S cylindrical body, squeeze lever discharge valve fitted with internal discharge tube, 30cms long high pressure discharge hose, discharge nozzle, trolley mounted, conforming to IS : 15683 finished externally with red enamel paint and fixed to wall with brackets with rawl plug/dash fasteners complete with internal charge. Capacity 22.5 kg. ISI Marked.(Contractor should submit test certificate form manufacturer along with serial number of every extinguishers supplied.)	Each	2.00	35,256.70	70,513.40



Sl. No.	As Per DSR 2021	Description of item	Unit	Quantity	Rate in Rs.	Amount in Rs.
190	NS-38	Providing and fixing mechanical foam type (ISI marked) fire extinguishers consisting of welded M.S. cylindrical body squeeze lever discharge valve 30 cm long high pressure discharge hose, discharge nozzle, trolley mounted ISI marked finished externally with red enamel paint and fixed to wall with brackets complete with internal charger.				
		50 liters capacity. (IS. 15683)	Each	2.00	26,719.10	53,438.20
		Total cost of NS-Items				1,17,89,306.84
191	DSR/2021	Execution of item(s) of works which is not covered in said BOQ; as per DSR 2021 specifications & rate given in "Government of India, Central Public Works Department (CPWD), DELHI SCHEDULE OF RATES 2021 (DSR 2021; Vol 1 & 2), Published (July 2021 & Updated in Dec 2021) by Director General CPWD, Nirman Bhawan, New Delhi-110011"	LS		At Par	40,00,000.00
		Total schedule 1 & 2				11,71,06,497.77
		Total cost of Schedule - 3				48,33,764.23
		Total cost of Schedule - 4				19,18,523.00
		Grand Total (Sch. - "1" + "2" + "3" + "4")				12,38,58,785.00



Schedule - "3"

Sl. No.	Item No.	Description of item	Unit	Quantity	Rate	Amount
(ELECTRICAL INSTALLATION)						
POINT WIRING						
1	1.3.3	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.	Point	500	1,845.00	9,22,500.00
2	1.7	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required				
	1.7.2	2X2.5 sq. mm + 1X2.5 sq. mm earth wire	Metre	1500	369.00	5,53,500.00
	1.7.3	2X4 sq. mm + 1X4 sq. mm earth wire	Metre	1500	428.00	6,42,000.00
	1.7.5	2X10 sq. mm + 1X10 sq. mm earth wire	Metre	0	710.00	-
3	1.12	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Metre	200	334.00	66,800.00
4	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				-
	1.24.1	5/6 amps switch	Each	30	103.00	3,090.00
	1.24.4	3 pin 5/6 amp socket outlet	Each	30	122.00	3,660.00
	1.24.3	15/16 amp switch	Each	25	156.00	3,900.00
	1.24.5	15/16 amp switch sockets	Each	25	197.00	4,925.00
	1.24.7	TV Antenna Socket Outlet	Each	4	148.00	592.00
	1.24.6	Telephone Socket Outlet	Each	5	148.00	740.00
5	1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	7	369.00	2,583.00
6	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate etc. as required	Each	20	40.00	800.00
7	1.27	Supplying and fixing following size/modules, GI box along with modular base & cover plate for modular switches in recess etc as required				-
	1.27.1	1 or 2 module (75X75mm)	Each	10	298.00	2,980.00
	1.27.3	4 module (125X75mm)	Each	1	343.00	343.00



Sl. No.	Item No.	Description of item	Unit	Quantity	Rate	Amount
	1.27.4	6 module (200X75mm)	Each	1	402.00	402.00
	1.27.5	8 Module (125mmX125mm)	Each	1	454.00	454.00
	1.27.6	12 Module (200mmX150mm)	Each	20	547.00	10,940.00
8	10.18 (Civil)2021	Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 12mm dia M.S. bar bent to shape as per standard drawing.	Nos.	7	185.20	1,296.40
9	1.38	Supplying and fixing Call Bell/Buzzer suitable for DC/AC 230 V complete as required	Nos.	1	99.00	99.00
10	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				-
	1.21.2	25 mm	Metre	50	145.00	7,250.00
	1.21.3	32mm	Metre	50	184.00	9,200.00
	1.21.4	40mm	Metre	50	228.00	11,400.00
11	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, 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 without MCB/RCCB/Isolator)				
	2.4.1	4 way (4 + 12), Double door	Each	0	4,091.00	-
	2.4.2	6 way (4 + 18), Double door	Each	0	4,974.00	-
12	2.12	Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				-
	2.12.1	40Amp	Each	0	435.00	-
13	2.10	Supplying and fixing 5 to 32 Amp rating, 240V B series MCB suitable for lighting and other loads of following poles in existing MCB DB complete with connections, testing and commissioning etc. as req				-
	2.10.1	Single pole	Each	47	256.00	12,032.00
	ii	Double pole	Each	0	656.00	-
	iii	Tripple pole	Each	0	1,007.00	-



Sl. No.	Item No.	Description of item	Unit	Quantity	Rate	Amount
14	1.19	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Metre	50	47.00	2,350.00
15	1.18	Supplying and drawing following pair 0.5 sq mm FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				-
	1.18.2	2 pair	Metre	50	38.00	1,900.00
16	DSR'2022	Electrical items are to be operated as per specifications & rate given in "Government of India, Central Public Works Department (CPWD), DELHI SCHEDULE OF RATES 2022 (E & M) (DSR 2022; E & M), Published (July'2022) by Director General (E & M) CPWD, Nirman Bhawan, New Delhi-110011"	LS		At Par	5,00,000.00
		Total Cost of PART-A DSR Items				27,65,736.40
NON DSR ITEMS						
17	1	Supply, installation, testing & commissioning of LED 1x18W box light fittings equivalent to Bajaj Model No. BCLSB 18W	Nos.	4	1,311.79	5,247.17
18	2	Supply, installation, testing & commissioning of LED 2x18w with box light and acylic cover light fittings equivalent to Bajaj Model No.BIPC-40W	Nos.	150	4,623.11	6,93,466.58
19	3	Supply, installation, testing & commissioning of Ceiling Fan (1200mm sweep) having mini. BEE -3 star rating of energy saving.	Nos.	7	1,948.58	13,640.09
20	4	Supply, installation, testing & commissioning of Exhaust Fan (450mm sweep)	Nos.	10	7,552.35	75,523.54
21	5	Supplying, Laying, Testing and Commissioning of the following 1100 Volt Armoured XLPE Insulated and Sheathed Aluminium Conductor Armoured Cable complete as required				
22	5.1	4 x 400 Sq.mm. Aluminium Cable	RM	100	1,878.54	1,87,853.67
23	5.2	4 x 120 Sq.mm. Aluminium Cable	RM	100	681.37	68,136.75
24	5.3	4 x 95 Sq.mm. Aluminium Cable	RM	100	554.01	55,400.91
25	5.4	4 x 25 Sq.mm. Copper Cable	RM	100	229.25	22,924.52



Sl. No.	Item No.	Description of item	Unit	Quantity	Rate	Amount
26	6	Supplying and making end termination with Brass Compression gland and Aluminium lugs for the following PVC Sheathed/XLPE Aluminium Conductor Cables of 1100 Volt grade				
	6.1	4 x 400 Sq.mm. Aluminium Cable	Nos.	5	2,572.64	12,863.20
	6.2	4 x 120 Sq.mm. Aluminium Cable	Nos.	5	1,069.81	5,349.05
	6.3	4 x 95 Sq.mm. Aluminium Cable	Nos.	5	980.66	4,903.30
	6.4	4 x 25 Sq.mm. Copper Cable	Nos.	5	362.97	1,814.86
27	7	<u>PIPE IN PIPE (CHEMICAL) TYPE GI EARTH PIT</u> :- SITC of Pipe in Pipe (Chemical) type GI Earth Pit Complete with Masonary Chambers and Covers, Chemical Filled, 40x6 mm GI Flat, 3 - Meter Long GI Pipes, Outer GI Pipe - 76 mm dia & Inner GI Pipe - 42 mm dia, with CCM filled in both Pipes and 50 Kg of Moisture Booster as per IS 3043.	Nos.	20	12,036.00	2,40,720.00
28	8	Supply, Installation, testing, commissioning of 300 mm. Sweep, Industrial type Heavy Duty Exhaust Fan.	Nos.	5	5,286.40	26,432.00
29	9	Supply, installation, testing and commissioning of wall mounted single phase 230 V , 50Hz air circulating fan of 700-750mm sweep including all accessories. (The item price includes labour & cost of all material including Supply, installation, connection of single phase 230V, 50Hz air circulating fans of 700-750 mm sweep heavy duty, wall mounted including all accessories with regulators similar to CGL model no. AC750WALL-1. Erection cost shall include cost of GI clamps and fixtures as required for wall/structure mounting of fan and GI fasteners. as approved by engineer. The price also covers supply and erection of suitable clamps/brackets for fixing above.)	Nos.	20	16,994.16	3,39,883.22
30	10	Supply, installation, testing & commissioning of Socket DB comprising of Main MCB of 100Amps, IP 64 and following sizes of sockets controlled by independent MCB's : 3Nos of 32A, 4P-MCB, and 3Nos. of 32A -5 Pin Socket with 4P-MCB's and LED type phase indicating lights on each phase.	Nos.	5	27,229.23	1,36,146.17



Sl. No.	Item No.	Description of Item	Unit	Quantity	Rate	Amount
31	11	Supply, installation, testing & commissioning of 63A Socket DB, IP 64 comprising of the following: Incomer 1x100Amps 4P-MCB and outgoing 63A 4P MCB-2 Nos., 63A 5 Pin Socket-2Nos with LED type phase indicating lights	Nos.	2	32,323.57	64,647.14
32	12	Supply of plug tops suitable for item no. 10 and 11				
	12.1	32A Plug Tops	Nos.	15	987.03	14,805.52
	12.2	63A Plug Tops	Nos.	4	3,725.24	14,900.96
33	13	Earthing				
	13.1	Providing and Fixing 50 x 6 mm G.I. Strip	RM	200	299.30	59,859.27
	13.2	Providing and Fixing 8 SWG G.I. Wire	RM	50	19.10	954.99
34	14	Supplying and fixing following way prewired SP&N MCB distribution board of steel sheet for 240 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required. (But without MCB/ RCCB/ Isolator)				
	i	2 + 12 way Double door	Each	7	3,222.13	22,554.93
	TOTAL COST of PART-A Non-DSR ITEMS					20,68,027.83
	TOTAL COST of PART-A DSR+Non-DSR Items					48,33,764.23



Schedule - "4"

Estimate for Technical Staffs and Vehicles to be provided by Contractor

Sl. No.	Description	Unit	Number required	Months	Unit Rate (In `)	Total Amount (In `)
1	Site Supervisor (Civil/Electrical)	Man-Months	2	12	53,182.51	12,76,380.00
2	Vehicle	Month	1	12	52,199.45	6,26,393.00
2a	Additional running Per Km.	Km.	1000		15.75	15,750.00
Estimate rate per Month (Site Supervisor & Vehicles) =						1,05,381.96
Total						19,18,523.00

