

PRICE BID DOCUMENT

For

**“Construction of EMRS (Eklavya Model Residential School)
at Dudhnoi, Goalpara in the state of Assam”**

Tender No: TCIL/CIVIL/PD(NE-1)/2024-25/EMRS/03
Issued on: 20.06.2024

Volume II: Financial Bid

Issued By:

GM (CIVIL)/ Project Director (NE-1)
Telecommunications Consultants India Limited
Guwahati, Assam- 781033
Email: tapas.swain@tcil.net.in
Visit us at <http://www.tcil.net.in>



Telecommunications Consultants India Ltd.
(A Govt. of India Enterprise)
TCIL Bhawan, Greater Kailash-I
New Delhi – 110048(India)
Telephone no.:011-26201010, Fax:011-26241865
website: www.tcil.net.in
[Email: tcil@tcil.net.in](mailto:tcil@tcil.net.in)
CIN No.:U74999DL1978GOI008911



Volume II

Financial Bid

VOLUME - II
FORWARDING LETTER – PART (A)

CONTRACTOR'S NAME & ADDRESS: _____

CONTRACTOR'S TELEPHONE No.: _____

FAX No.: _____

E-mail _____

To

GM (Civil) / Project Director (NE-1)

Telecommunications Consultants India Limited

H.No. 1421, NH-37 Tetelia, P.O- Gotanagar,

District- Kamrup Metro, Guwahati, Assam, PIN-

781033

Dear Sir,

I/We submit the e-tender for _____ for Tender No:
_____ Date: _____

1. I/We have thoroughly examined and understood instructions to contractors, terms and conditions of the contract given in the NIT and those contained in the general conditions of contract and its appendices, and annexure and agree to abide by all the terms & conditions of the tender document and corrigendum etc.

I/We offer to carry out the work at the price quoted in the price schedule Part (B).

It is confirmed that the rates quoted above are all inclusive of all charges, costs, taxes, levies etc. including GST and excluding EPF & ESI, for this performance of the contract.

2. I/We agree to keep the offer open for acceptance up to and inclusive of the date as mentioned in the tender document. I/ We shall be bound by communication of acceptance of the offer dispatched within the time.
3. I / We do hereby declare that the entries made in the tender and appendices attached therein are true and also that I/We shall be bound by the act of my/our duly constituted attorney Mr./Ms. _____ whose signature is appended here to in the space specified for the purpose and of any other person who in future may be appointed by me/ us to carry out the business of the firm.

Yours faithfully

(Signature of Constituted Attorney)

(Signature of contractor)

(Capacity in which signing along with seal)

NOTE:

(1) If the discrepancy exists between figures & words in quotations, in that case the amount in words will prevail.

(2) Absurd / Abnormal rates will not be considered by the Employer.

Name and address of Bidder

Name _____

Address: _____

Date: _____

Name and address of witness

Name _____

Address: _____

Date: _____

PART – B
Financial Bid
(ON THE BIDDER'S LETTER HEAD)

To

GM (Civil) / Project Director (NE-1)
Telecommunications Consultants India Limited
H.No. 1421, NH-37 Tetelia, P.O- Gotanagar,
District- Kamrup Metro, Guwahati, Assam, PIN-
781033

Sub: “Construction of EMRS (Eklavya Model Residential School) at Dudhnoi, Goalpara in the state of Assam”.

NIT NO: TCIL/CIVIL/PD(NE-1)/2024-25/EMRS/03 DATED: 20.06.2024

Sir,

We offer to perform the Works described above in accordance with the Conditions of Contract accompanying this Bid with Rs. _____ (In figures) and Rupees _____ (In words).

Our Offered cost is inclusive of all charges, costs, taxes, levies etc. including GST, as per the conditions of the proposal. GST shall be paid subject to receipt of the same by owner on back to back terms.

This Bid along with addendums/ corrigenda and written acceptance of it shall constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any Bid you receive.

We hereby confirm that this Bid complies with the Bid Validity, Tender Fee and Bid Security Declaration required as per bidding documents.

Yours faithfully,

Authorized Signatory.....
Name and Title of Signatory.....
Name of bidder.....
Address:
Date:

Construction of EMRS (Eklavya Model Residential School) at Dudhnoi, Goalpara in the							
NIT No. TCIL/CIVIL/PD(NE-1)/2024-25/EMRS/03 DATED: 20.06.2024							
Summary of Cost							
Name of Bidder : M/s							
S. No.	Description	BOQ Cost in INR	Percentage quoted by the tenderer above/ below/ at par the total amount of BOQ			Quoted Amount	
			Above/ Below/ At par	% age in figure	% age in Words	in figure	
[1]	[2]	[3]	[4]	[5]	[6]	[7]	
a)	DSR Items	378651442.90	Above/ Below/ At par				
b)	Non DSR Items	17304922.11					
c)	Total(a+b)	39,59,56,365.00					
NOTE:							
1. The tenderer shall furnish their rate in terms of % above/ below/ at par against Overall Estimated Cost.							
2. If the tenderer chooses to opt "At par" under column 4, then the value against 'percentage' in figures in column 5 shall be zero. In such case, if the tenderer fills any value of percentage (other than '0') under column 5, then it will not be given "At par" option (i.e. "Zero" percent) chosen by the tenderer shall take precedence and the amount will be taken as "At par" in the percentage mentioned under column 5.							
3. Bidder will quote its rates inclusive of all charges, costs, taxes, levies etc. including GST.							
4. Reimbursement of ESI & EPF payments in accordance to Statutory requirements shall be made extra in respect of the receipt of proof of payment, subject to a ceiling of Rs 1,58,38,254.60/- (i.e., @4% on estimated Construction cost of work done on the estimated value of work done under RA & Final Bills from time to time for the works.							
Date:							
Place:							
Seal & Signature of Authorized Signatory							

Cost Estimate (based on DSR 2021/ Market rate basis)		₹ 395,956,365	
Name of work: Construction of Eklavya Model Residential School (EMRS) Boko at Sarupetha, District- Baksa, Assam.			
S. No.	PARTICULARS	AMOUNT (IN Rs.)	
		DSR	NON DSR
CIVIL WORKS			
1	Earth Work	5836055.76	
2	Concrete Work	10788170.99	
3	Reinforced Cement Concrete	140722672.43	
4	Masonry Work	25372363.70	
5	Stone Work	0.00	
6	Cladding Work	4778842.70	
7	Wood & PVC Work	3576107.40	
8	Steel Work	13067506.09	
9	Flooring	17757418.25	
10	Roofing	2525886.40	
11	Finishing	24957474.55	
12	Aluminium Work	279542.85	
13	Water Proofing	5525450.65	
14	Road Work	4432318.81	
15	Non-Schedule Items		3480210.10
TOTAL AMOUNT (DSR)		259619811.00	
TOTAL AMOUNT (NON DSR)			3480210.10
	Add provisional enhancement @ 25 % due to increase in Cost Index of available station i.e. Nalbari as 125 as on 01-10-2022 based on DPAR 2021 (with base 100) considered for district Nalbari as per CPWD letter under file No. 17(6)/अ.महानि(गु.क्षे.)/कार्य/2022/4133(H) dated 17-11-2022.	64904953.00	
GRAND TOTAL (CIVIL WORKS) (In Rs)		324524764.00	
PLUMBING WORKS			
16	Sanitary Installations	2315781.80	611390.35
17	Drainage Installations	626709.10	1276936.15
18	Water supply Installations	1295045.15	17406.80
19	External Sewage Drainage System	3621822.15	
20	External Storm Water Drainage System	2342532.47	
21	External Fresh Water Supply System	1236125.00	
22	Bore well	308150.60	
TOTAL AMOUNT (DSR)		11746166.28	
TOTAL AMOUNT (NON DSR)			1905733.30
	Add provisional enhancement @ 25 % due to increase in Cost Index of available station i.e. Nalbari as 125 as on 01-10-2022 based on DPAR 2021 (with base 100) considered for district Nalbari as per CPWD letter under file No. 17(6)/अ.महानि(गु.क्षे.)/कार्य/2022/4133(H) dated 17-11-2022.	2936542.00	
FIRE FIGHTING WORKS			
23	Piping & Valves	638306.30	2046.00
24	Fire Hydrant Accessories	156150.00	
25	Fire Extinguishers & Miscellaneous Items		164945.00
26	Fire Pumps & Accessories	313341.00	111852.00
TOTAL AMOUNT (DSR)		1107797.30	
TOTAL AMOUNT (NON DSR)			278843.00
	Add provisional enhancement @ 25 % due to increase in Cost Index of available station i.e. Nalbari as 125 as on 01-10-2022 based on DPAR 2021 (with base 100) considered for district Nalbari as per CPWD letter under file No. 17(6)/अ.महानि(गु.क्षे.)/कार्य/2022/4133(H) dated 17-11-2022.	276949.00	
GRAND TOTAL (FIRE FIGHTING WORKS) (In Rs)			

Cost Estimate (based on DSR 2021/ Market rate basis)		₹ 395,956,365	
Name of work: Construction of Eklavya Model Residential School (EMRS) Boko at Sarupetha, District- Baksa, Assam.			
S. No.	PARTICULARS	AMOUNT (IN Rs.)	
		DSR	NON DSR
ELECTRICAL WORKS (Internal)			
27	Internal Wiring	9340146.00	34335.00
28	Distribution Boards & MCB's	993412.00	54575.00
29	Telephone, Television & Data System (socket,wiring & conduting only)	782345.00	17600.00
30	Light Fixtures & Fan	593241.00	1946720.00
TOTAL AMOUNT (DSR)		11709144.00	
TOTAL AMOUNT (NON DSR)			2053230.00
	Add provisional enhancement @ 25 % due to increase in Cost Index of available station i.e. Nalbari as 125 as on 01-10-2022 based on DPAR 2021 (with base 100) considered for district Nalbari as per CPWD letter under file No. 17(6)/अ.महानि(गु.क्ष.)/कार्य/2022/4133(H) dated 17-11-2022.	2927286.00	
GRAND TOTAL (ELECTRICAL WORKS INTERNAL) (In Rs)			
ELECTRICAL WORKS (External)			
31	Transformer and HT Panel		1234006.00
32	LT Panel, Feeder Pillar and Capacitor Panels		1425157.00
33	LT Cables	1367394.00	2294093.00
34	HT Cables	99982.00	219120.00
35	Miscellaneous	9277.00	20063.00
36	Earthing	402718.00	
37	Pole Erection	387300.00	
38	External Lighting System	560290.00	1750824.00
39	UPS - 10 kVA		237111.00
40	Lightning Arrestor System for Transformer		12021.00
41	Pumps		284396.00
42	CCTV System	156385.00	456020.00
43	Lightning Conductor	344322.00	
44	62.5 KVA DG Set and associated works		773738.00
TOTAL AMOUNT (DSR)		3327668.00	
TOTAL AMOUNT (NON DSR)			8706549.00
	Add provisional enhancement @ 25 % due to increase in Cost Index of available station i.e. Nalbari as 125 as on 01-10-2022 based on DPAR 2021 (with base 100) considered for district Nalbari as per CPWD letter under file No. 17(6)/अ.महानि(गु.क्ष.)/कार्य/2022/4133(H) dated 17-11-2022.	831917.00	
GRAND TOTAL (ELECTRICAL WORKS EXTERNAL) (In Rs)		359388233.58	16424565.40
Total Estimated Cost with 18% GST (in Rs.) Multiplying factor 1.0536 (Refer CPWD OM dated 10-08-2022)		378651442.90	17304922.11
			395956365.00

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		CIVIL WORKS				
1	2	Earth Work				
				0		
1.01	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:	Cum	5800	107	620600
1.02	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 50m and for all lift as directed by Engineer-in-charge.		0		
1.02.1	2.6.1	All kinds of soil	Cum	14852	149	2212948
				0		
1.02	2.7	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 50m and lift upto 1.5m, as directed by Engineer-in-charge.				
1.02.1	2.7.1	Ordinary Rock	Cum	0	412.95	0
1.02.02	2.7.3	Hard rock (blasting prohibited)	Cum	0	1184.3	0
1.03	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, 1 for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50m		0		
1.03.01	2.8.1	All kinds of soil.	Cum	933.6	218.6	204084.96
				0		
1.04	2.9	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed within a lead of 50m.		0		
1.04.01	2.9.1	Ordinary Rock	Cum	87	523.5	45544.5
1.04.02	2.9.3	Hard rock (blasting prohibited)	Cum	0	1258.6	0
1.05	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 upto 50m and for all lift.	Cum	8440	161.6	1363904
				0		
	2.25(a)	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20cm in foundation trenches, plinth, sides of foundation etc. complete for	Cum	0	564	0
1.07	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	565	2161.2	1221078
1.08	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 upto a distance of 50m outside the periphery of the area cleared.	Sqm	0	14.5	0
1.09	2.36	Extra for levelling & neatly dressing of disposed soil completely as directed by Engineer-in-charge.	Cum	2189	76.7	167896.3

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		Total of sub-head (1.0)			5836055.76	5836055.76
2	4	Concrete Work				
2.01	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 :				
2.01.1	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	9	6326.05	56934.45
2.01.2	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources: 10 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	1251.1	6050.65	7569968.215
2.01.3	4.1.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size)	Cum	129.787	7365.15	955900.7231
				0		
2.06	Derived from basic rates of DSR 2021	Providing and laying broken autoclaved aerated cement (AAC) blocks and/or bats (light weight, having density 550-650 kg/m ³) of nominal size 25mm to 65mm in the sunken portion of toilets upto floor five level all complete as per the direction of Engineer-in-charge.	Cum	243	2488.2	604632.6
2.02	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level excluding the cost of centering, shuttering and		0		
2.02.1	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	73	9047.3	660452.9
				0		
2.03	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :		0		
2.03.1	4.3.1	Foundations, footings, bases for columns	Sqm	489	332.1	162396.9
				0		
2.04	4.1	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	477	370.85	176895.45
				0		
2.05	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	477	113.85	54306.45
2.07	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth	Sqm	802	681.65	546683.3
		Total of sub-head (2.0)			10788170.99	10788170.99
3	5	Reinforced Cement Concrete				
3.01	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :				
3.01.1	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	3334	332.1	1107221.4

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
3.01.2	5.9.2	Walls (any thickness) including attached pilasters, buttermesses, plinth and string courses etc.	Sqm	1746	702	1225692
3.01.3	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	8593	766.55	6586964.15
3.01.4	5.9.4	Shelves (Cast in situ)	Sqm	428	766.55	328083.4
3.01.5	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	8792.5	608.35	5348917.375
3.01.6	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	8324	804.25	6694577
3.01.7	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	252	657.75	165753
3.01.7A	5.9.14	Extra for shuttering in circular work(20% of respective centering and shuttering items)	Sqm	42	160.85	6755.7
3.01.8	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	Sqm	23	332.1	7638.3
3.01.9	5.9.16	Edges of slabs and breaks in floors and walls				
	5.9.16.1	Under 20 cms wide	Metre	374.4	181.9	68103.36
3.01.10	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	974	814.95	793761.3
3.02	5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be				
3.02.1	5.11.1	Suspended floors, roofs, landings, beams and balconies (Plan area to be measured)	Sqm	3234	319.25	1032454.5
3.03	5.16	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in shelves, including setting in cement mortar 1:3 (1cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from	Cum	46	18038.25	829759.5
3.03	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.		0		
3.03.1	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	259110	89.65	23229211.5
3.04	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
3.04.1	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	474655	89.65	42552820.75
3.05	5.3	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	Metre	850	64.7	54995
3.06	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately).				
	5.33.1	All works upto plinth level				

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
3.06.1	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	2502.554695	8683.8	21731684.46
				0		
	5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum	226	8825.35	1994529.1
				0		
3.06.2	5.33.2	All works above plinth level upto floor V level.				
	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	2696.116	8964.75	24170005.91
				0		
	5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum	94	9106.35	855996.9
3.07	5.34.1 (Modified)	Deduct for providing M-20 grade concrete instead of M-25 grade machine batched and machine mixed design mix for reinforced cement concrete work (Note:- Cement content considered in M-25 and M-20 is @ 330 kg/cum and 300 kg/cum respectively) (this item is applicable for RCC in grade slab only)	Cum	229.9545	-229.85	-52855.04183
3.08	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	quintal	1736.603049	688.45	1195564.369
3.09	5.43	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion				
3.09.1	5.43.1	200 mm wide.	Metre	49	747.25	36615.25
3.1	5.44	Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical localtion in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments.				
		The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self- centering arrangement that freely rotates / moves in all directions. The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in-Charge. (Material shall conform to ASTM 6063)				
3.10.1	5.44.1	Floor Joint of 100 mm gap	Metre	49	5800.15	284207.35
				0		

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
3.11	5.45	Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material shall confirm to ASTM 6063.)		0		
3.11.1	5.45.1	Wall Joint of 100 mm gap	Metre	79	4835.5	382004.5
				0		
3.12	5.46	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering arrangement support plates asper ASTM B221- 02. The system shall be such that it provides watertight roof to roof/roof to corner joint cover expansion control system that is capable of accommodating multidirectional seismic movement without stress to its components. System shall consist of metal profile that incorporates a universal aluminum base member designed to accommodate various project conditions and roof treatments.		0		
		The cover plate shall be designed of width and thickness required to satisfy movement and loading requirements and secured to base members by utilizing manufacturer's preengineered self-centering arrangement that freely rotates / moves in all directions. The Self centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. The Joint System shall resists damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall confirm to ASTM 6063.)				
3.12.1	5.46.1	Roof Joint of 100 mm gap	Metre	17	5424.2	92211.4
		Total of sub-head (3.0)			140722672.4	140722672.4
4	6	Masonry Work				
4.01	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
4.01.1	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	538	6658.25	3582138.5
4.03	6.4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
4.03.1	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	2062	8288.35	17090577.7
4.04	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 :				

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
4.04.1	6.34.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum		7676.3	0
4.05	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
4.05.1	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	4255	1018.05	4331802.75
4.06	6.45	Half brick masonry with non modular fly ash bricks of class designation 10, conforming IS :12894, in super structure above plinth and upto floor V level.				
4.06.1	6.45.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	0	969.65	0
4.07	6.15	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	4255	86.45	367844.75
		Total of sub-head (4.0)		25372363.7		25372363.7
5		Stone Work				
5.01	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
5.01.1	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	0	6653.45	0
5.02	7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at sindow sills, ceiling				
5.02.1	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	0	8275.7	0
		Total of sub-head (5.0)		0		0
6	8	Cladding Work				
6.01	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc				
6.01.1	8.2.2	Granite of any colour and shade		0		
6.01.2	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	37	4679.35	173135.95
6.01.3	8.2.2.2	Area of slab over 0.50 sqm	Sqm	219	4425.35	969151.65
				0		
6.02	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	221	475.55	105096.55
				0		
6.03	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Each	51	808.15	41215.65
				0		
				0		

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
6.04	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	3282	1063.45	3490242.9
				0		
		Total of sub-head (6.0)		4778842.7		4778842.7
				0		
7	9	Wood Work & PVC Work		0		
7.01	9.12	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	112	148.5	16632
				0		
7.02	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:		0		
7.02.1	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	416	2015.75	838552
				0		
7.03	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be	Sqm	656	401.4	263318.4
				0		
7.04	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	Sqm	228	93.65	21352.2
				0		
7.05	9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets :		0		
7.05.1	9.47.2	25 mm dia (heavy type)	Metre	1017	159.35	162058.95
				0		
7.06	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete		0		
7.06.1	9.48.1	Fixed to steel windows by welding	kg	7745	181	1401845
				0		
7.07	9.24	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):		0		
7.07.1	9.24.1	Rectangular or square	Sqm	408	173.95	70971.6
				0		
7.08	9.55	Deduction for not providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :		0		
7.08.1	9.55.2	100x58x1.90 mm	Each	2646	-39.05	-103326.3
				0		
7.09	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.		0		
7.09.1	9.96.1	300x16 mm	Each	146	260.3	38003.8
7.09.2	9.96.2	250x16 mm	Each	365	234.9	85738.5
7.1	9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.		0		
7.10.1	9.68.1	300 mm weighing not less than 200 gms	Each	2510	59.25	148717.5
				0		
				0		

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
7.11	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	Each	70	856.3	59941
				0		
7.12	9.85	Providing and fixing bright finished brass casement window fastener with necessary screws etc. complete.	Each	2510	76.3	191513
				0		
				0		
7.13	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.		0		
7.13.1	9.97.1	300x10 mm	Each	659	117.65	77531.35
7.13.2	9.97.4	150x10 mm	Each	423	75.55	31957.65
				0		
7.13	9.1	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 :		0		
7.13.1	9.100.1	125 mm	Each	1198	60.05	71939.9
7.13.2	9.100.2	100 mm	Each	156	53.25	8307
				0		
7.14	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.		0		
17.4.1	9.101.2	Twin rubber stopper	Each	599	62.05	37167.95
				0		
7.15	9.154	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete. all as per direction of Engineer-in-charge	kg	1154	133.35	153885.9
				0		
		Total of sub-head (7.0)		3422221.5		3576107.4
				0		
8	10	Steel Work		0		
				0		
8.01	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	63	9397.35	592033.05
				0		
8.02	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		0		
8.02.1	10.6.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	27	3008.8	81237.6
				0		

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
8.03	10.7	Providing and fixing ball bearing for rolling shutters.	Each	3	424.2	1272.6
				0		
8.04	10.8	Extra for providing mechanical device chain and crank operation for operating rolling shutters		0		
8.04.1	10.8.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	Sqm	15	1108.7	16630.5
				0		
8.05	10.11.2 (Modified)	Providing and fixing factory made M.S. Tubular shutter for doors, windows and ventilators side /top /centre hung, with Z / T and like tubular profile of required size, made of 1.60mm thick M.S. sheet, joints mitred and flash butt welded, including providing and fixing 95mm long ball type hinges of diameter 16mm, including priming coat of approved steel primer, but excluding the cost of other fittings, all complete as per approved design (sectional weight of only M.S. tubular profile shall be measured for payment).		14219.86	109	1549964.74
	10.12	Providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws in steel doors, windows, ventilators, composite units and M.S. tubular frame etc.	kg	1155	109	125895
8.06	10.13	Providing and fixing T-iron frames for doors of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.		0		
8.06.1	10.13.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	kg	9293	114.65	1065442.45
8.07	10.15	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel				
8.07.1	10.15.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	kg	14121	146.55	2069432.55
				0		
8.08	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.		0		
8.08.1	10.16.1	Hot finished welded type tubes	kg	22857	154.9	3540549.3
				0		
8.09	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.		0		
	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all	kg	100	102.25	10225
8.09.1	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	3752	142.3	533909.6
8.1	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.		0		
8.10.1	10.26.1	M.S. tube	kg	1259	157.15	197851.85
				0		

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
8.11	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 members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	2773	612.25	1697769.25
				0		
8.12	10.29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.		0		
8.12.1	10.29.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	Sqm	570	971.55	553783.5
				0		
8.13	10.3	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with :		0		
8.13.1	10.30.1	4.0 mm thick glass panes	Sqm	1097	940.3	1031509.1
				0		
	10.30.2	5.0 mm thick glass panes (weights not less than 12.50 kg/ sqm)	Sqm	81	1243.5	100723.5
		Total of sub-head (8.0)		13067506.09		13067506.09
				0		
9	11	Flooring		0		
9.01	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.		0		
9.01.1	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	69	545	37605
9.03	11.13	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.		0		
9.03.1	11.13.1	40 mm wide and 4 mm thick	Metre	203	79.5	16138.5
9.01.2	11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	1316	928.65	1222103.4
9.02	11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	Sqm	1216	69.3	84268.8
				0		
9.04	11.23	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with :		0		
9.04.1	11.23.3	Note : Qty. shall be executed in marble strips of width Agaria White	Sqm	474	2608.15	1236263.1

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
				0		
9.04.2	11.23.5	Udaipur green marble	Sqm	0	2100.4	0
				0		
9.05	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) :		0		
9.05.1	11.26.1	25 mm thick.	Sqm	5387	1706.6	9193454.2
				0		
9.06	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	693	2038.55	1412715.15
				0		
9.07	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	1032	157.35	162385.2
				0		0
9.08	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-				
	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
	11.21.1.1	Acid and alkali resistant tile	Sqm	0	1515.45	0
9.09	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)				
	11.21.2.1	Acid and alkali resistant tile	Sqm		1637.7	0
9.08	11.4	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including pointing the joints with white cement and matching pigments etc. complete	Sqm	1015	1225.1	1243476.5
				0		
9.09	11.41	Providing and laying full body (Homogeneous) 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 @ 3.3kg/sqm including grouting the joints with white cement and		0		
9.09.1	11.41.2	Size of Tile 600x600 mm	Sqm	1641	1416.65	2324722.65
				0		
9.1	11.46	Providing and laying full body (Homogeneous) 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 @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete		0		
9.10.1	11.46.2	Size of Tile 600x600 mm	Sqm	170	1466.5	249305
				0		
				0		

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
9.11	16.89	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge	Sqm	369	1250.75	461526.75
				0		
9.12	16.9	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS:15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of	Sqm	66	1719	113454
		Total of sub-head (9.0)		17757418.25		17757418.25
				0		
10	12	Roofing		0		
				0		
10.01	12.21	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :		0		
10.01.1	12.21.1	In 75x75 mm deep chase	Metre	15	260.2	3903
				0		
10.02	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet	Each	151	266.6	40256.6
10.03	12.47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigis incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified.		0		
10.03.1	12.47.2	2 mm thick flat	Sqm	35	1048.5	36697.5
				0		

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
10.04	12.5	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05 mm) 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 caulking softens	Sqm	1492	671.55	1001952.6
10.05	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05 mm) 0.50 mm 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 using self drilling/ self tapping screws complete :		0		
10.05.1	12.51.2	Flashings/ Aprons.(Upto 600 mm)	Metre	62	412.85	25596.7
10.05.2	12.51.4	Barge board (upto 300 mm)	Metre	46	384.2	17673.2
10.05.3	12.51.6	Gutter (600 mm over all girth)	Metre	78	1110.6	86626.8
				0		
10.06	12.52	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all		0		
10.06.1	12.52.2	GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation and backed with a black	Metre	752	1746.25	1313180
		Total of sub-head (10.0)		2525886.4		2525886.4
				0		
11	13	Finishing		0		
				0		

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
11.01	13.4	12 mm cement plaster of mix		0		
11.01.1	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	12601	294.35	3709104.35
				0		
11.02	13.5	15 mm cement plaster on rough side of single or half brick wall of mix:		0		
11.02.1	13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	14357	339.1	4868458.7
11.03	13.16	6 mm cement plaster of mix				
11.03.1	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	12369	253.05	3129975.45
11.04	13.18	Neat cement punning	Sqm	130	67.8	8814
11.05	13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand)	Sqm	9495	442.75	4203911.25
11.06	13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	per bag of 50kg cement used in the mix	1262	60.55	76414.1
11.07	13.37	White washing with lime to give an even shade :				
11.07.1	13.37.1	New work (three or more coats)	Sqm	340	32.45	11033
11.08	13.42	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
11.08.1	13.42.1	Two or more coats on new work	Sqm	33201	92.75	3079392.75
11.09	13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :				
11.09.1	13.43.1	Water thinnable cement primer	Sqm	33201	64.45	2139804.45
11.1	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
11.10.1	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	15522	162.35	2519996.7
11.11	13.5	Applying priming coat:				
11.11.1	13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	Sqm	518	55.5	28749
11.12	13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.				
11.12.1	13.52.2	On concrete work	Sqm	1996	198.4	396006.4
11.13	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
11.13.1	13.61.1	Two or more coats on new work	Sqm	4447	131.45	584558.15
11.14	13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	1625	123.85	201256.25
		Total of sub-head (11.0)		24957474.55		24957474.55
12	21	Aluminium Work				

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
12.01	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
12.01.1	21.1.1	For Fixed Portion				
12.01.2	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	212	466.3	98855.6
12.02	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)				
12.02.1	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	232	553.55	128423.6
12.03	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading				
12.03.1	21.3.1	With float glass panes of 4.00 mm thickness	Sqm	22	1325.55	29162.1
12.03.2	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ sqm)	Sqm	16		0
12.03.3	21.3.3	With float glass panes of 8 mm thickness (weight not less than 20 kg/ sqm)	Sqm	4	1496.15	5984.6
				0		
12.04	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge		0		
12.04.1	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	Each	6	2448.85	14693.1
				0		
12.05	21.13	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	Each	3	449.55	1348.65
				0		
12.06	21.16	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge		0		
12.07	21.16.2	Powder coated minimum thickness 50 micron	Each	12	89.6	1075.2
				0		
		Total of sub-head (12.0)		279542.85		279542.85
13	22	Water Proofing				
13.01	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:				

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		(i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				
		(ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				
		(iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.				
		(iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7	Sqm	1217	774.25	942262.25
13.02	22.4	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete :				
13.02.1	22.4.1	Serrated with central bulb (225 mm wide, 8-11 mm	Sqm		285.6	0
13.03	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 Engineer-in-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 Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including				
		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 Engineerin-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 Engineerin-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-				
13.03.1	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm	2732	1522.95	4160699.4
						0

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
13.05	22.23	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-				0
13.05.1	22.23.1	For vertical surface two coats @ 0.70 kg per sqm	Sqm	744	406.25	302250
13.05.2	22.23.2	For horizontal surface one coat @1.10 kg per sqm.	Sqm	386	311.5	120239
		Total of sub-head (13.0)		5525450.65		5525450.65
14	16	Road Work				
14.01	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with all lead and	Sqm	7330	180.5	1323065
14.02	16.7.1	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.	mtr	536	179.5	96212
14.03	16.6.1	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.	sqm	700	21.8	15260
14.04	16.11	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	Sqm	0	821.95	0
				0		
14.05	16.11 (Modified)	Deduct for using available stone of size 15 cm x 22.5 cm for dry stone pitching. (Rate is below relevant item)		0	-279.1	0
14.05	16.43.2 (M)	Making provision for contraction/ expansion, construction & longitudinal joints of sixe 10 mm wide x 50 mm deep by groove cutting machine. As per direction of Engineer-in-charge.	Cum	150	141.8	21270
				0		
14.06	16.46	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge.		0		
	16.46.1	Using grade 'A' sealing compound conforming to IS: 1834.	per cm depth per cm width	1529	7.5	11467.5

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
14.06	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 barbed 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	Metre	700	303.65	212555
14.07	16.19	Supplying at site Angle iron post & strut of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.	kg	1825	99.95	182408.75
14.08	16.62	Providing and applying 2.5 mm thick road marking strips (retro- reflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications	Sqm	165	623.8	102927
14.09	16.66	Excavating holes upto 0.10 cum, including getting out the excavated soil, then returning the soil as deported in layers not exceeding 20 cm in depth, including consolidating and deposited layer by ramming watering etc., disposing of surplus excavated soil as directed with in a lead of 50 mm and lift upto 1.5 m.				
14.09.1	16.66.1	All kind of soil	each	16	29.95	479.2
14.1	16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of	Sqm	50	951	47550
14.11	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	Cum	38	8613.55	327314.9
14.12	16.75	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator, vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately). (Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable	Cum	55	8964	493020
				0		

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
14.13	16.76	Deduct for using of M-20 grade concrete instead of M-25 grade concrete in C.C. pavement.	Cum	-319	191.1	-60960.9
				0		
14.14	16.3	Supplying and stacking at site.				
14.14.1	16.3.2	63 mm to 45 mm size stone aggregate	Cum	332	1624.5	539334
14.15	16.3.3	53 mm to 22.4 mm size stone aggregate	Cum	125	1837.25	229656.25
14.16	16.3.10	Moorum	Cum	125	888.3	111037.5
14.17	16.3.9	Good Earth	Cum	118	624.55	74095.61
14.18	16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications in uniform thickness, hand picking, rolling with 3 wheeled road/vibratory roller 8-10 tonne capacity in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate, watering and compacting to the required density.	Cum	815	865.8	705627
		Total of sub-head (14.0)		11119532.09		4432318.81
15		Non-Schedule Items - Civil				
15.01	MR 1	Providing signage viz display/name plate and like of required size made out of 20 guage thick stainless steel (304 grade) including engraved subject matter, message (Hindi/English and / or bilingual), symbols, borders and logo etc. The engraved letter, borders etc. to be furnished with paint etc. of required colour scheme and the plate to be fixed to wooden/wall surface with 25mm long stainless steel spacer/stud all complete as per direction of Engineer in Charge.	Sq. inch	2882	17	48999.3
15.02	MR 2	Providing and fixing factory made prelaminate flush door comprises 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 conforming to IS: 2202 (part 1) followed with machine pressed 1.00mm thick lamination on both faces of shutter in required finish and shade with suitable adhesive including providing and fixing 3 to 5 mm thick teak lipping along edges of shutter all complete as per direction of Engineer-in- charge. a) 35 mm thick including ISI marked Stainless Steel butt hinges (heavy weight) 100mm x 60mm x 2.5mm with necessary screws.	Sqm	559	5220	2917980
				0		0
15.03	MR 3	Providing & fixing G.I. chicken wire mesh of nominal size upto 20mm having 24 gauge thick with G.I. nails etc. to wall surface of dissimilar material viz RCC and brick work etc.all complete.	Sqm	472	155.15	73230.8
				0		0
		Total of sub-head (15.0) (Non DSR)		1101910.8		3040210.1
PLUMBING WORKS						
16		Sanitary Installation (As per D.S.R.)				

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
16.01	8.10	Providing & fixing stone slab table rubbed, edges rounded and polished of size 75 X 50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) as per Engineer-in-charge and finished smooth				
16.01.1	8.10.2	Granite Stone of approved shade	sqm	6	3542.85	21257.1
						0
16.02	17.1	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with CI brackets and stainless steel waste with plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required.				0
16.02.1	17.10.2	Sink without drain board				0
16.02.2	17.10.2.2	610X460 mm bowl depth 200mm.	Each	57	3337.85	190257.45
						0
16.03	17.11	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :				
16.03.1	17.11.2	Size 600x450x200 mm	Each	12	5610.85	67330.2
				0		
16.04	17.2	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 :		0		
16.04.1	17.2.1	W.C. pan with ISI marked white solid plastic seat and	Each	57	5540.55	315811.35
16.05	17.16A	Providing and fixing 8 mm dia C.P./S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in-charge	Each	57	299.35	17062.95
16.06	17.7	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
16.06.1	17.70.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260	Each	66	325.1	21456.6
						0
16.07	17.5.1 (M)	Providing and fixing single white vitreous china flat back half stall urinal of size 580x380x350 mm with spreaders, unions, waste fitting and other couplings (all in C.P. brass) including making good the walls	Each	19	3257.8634	61899.4046
						0
16.08	17.72	Providing & fixing PTMT towel ring trapezoidal shape 215 mm long 200 mm wide with minimum distance of 37 mm from wall face with concealed fittings arrangement of approved quality and colour weighing not less than 88 gms	Each	92	204.7	18832.4
				0		0
16.09	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :		0		0
16.09.1	18.49.1	15mm nominal bore	Each	166	434.2	72077.2
16.1	18.5	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				0
16.10.1	18.50.1	15mm nominal bore	Each	321	715.05	229531.05
16.11	18.54	Providing and fixing PTMT bib cock of approved quality and colour.				0

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
16.11.1	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	Each		156.65	0
16.11.2	18.54.3	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	Each		109.85	0
						0
16.12	18.55	Providing and fixing PTMT stop cock of approved quality and colour.				
16.12.1	18.55.3	Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms (For Shower)	Each		183.4	0
16.13	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
16.12.1	18.52.1	15 mm nominal bore (For Shower)	Each	136	594.75	80886
16.14	18.53	Providing and fixing C.P. brass angle valve for basin mixer and points of approved quality conforming to IS:8931				
16.14.1	18.53.1	15 mm nominal bore (For Shower)	Each	439	500.35	219653.65
16.15	18.63	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	Each	0	136.6	0
				0		0
16.14.2	18.75	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour. a) 25mm nominal bore, weighing not less than 62 gms	Each		100.55	0
16.16	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:				
16.16.1	17.7.4	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap	Each	138	1679.6	231784.8
16.17	17.7B	Providing and fixing wash basin with C.I. brackets, 15 mm PTMT pillar cock, 32 mm PTMT waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm PTMT pillar cock.	Each	0	1404	0
				0		0
16.18	17.28	Providing & fixing PVC waste pipe for sink including PVC waste fitting Complete		0		0
16.18.1	17.28.2	Flexible Pipe		0		0
16.18.2	17.28.2.1	32mm Dia	Each	248	104.35	25878.8
				0		0
16.19	17.34	Providing and fixing toilet paper holder :		0		0
	17.34.1	C.P. brass	Each	57	680.8	38805.6
16.19.1				0		0
16.2	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions		0		0
16.20.1	18.21.2	45 cm length		0		0
16.20.2	18.21.2.1	15 mm nominal bore	Each	428	85.2	36465.6
				0		0
16.21	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) IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:		0		0
16.21.1	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580 x 440 mm with integral type foot rests	Each	109	5781.35	630167.15
				0		0

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
16.22	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	101	96.75	9771.75
				0		0
16.23	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	24	146.3	3511.2
16.24	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.		0		0
16.24.1	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	Each	9	600.35	5403.15
				0		
16.25	17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.		0		
16.25.1	17.69.1	Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	Each	34	103	3502
				0		
16.26	18.56	Providing and fixing PTMT pillar cock of approved quality and colour.		0		
16.26.1	18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	Each	0	180.8	0
				0		
16.27	18.22	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	Each	136	106.15	14436.4
16.27.1	18.22.1	100 mm diameter				
		Sanitary Installations work (Non-Scheduled Items)		0		
				0		
16.28	MR 4	Providing and fixing U-shaped stainless steel grab bar (for differently abled person) of size 600mm wall mounted, movable (horizontally and vertically) with necessary dash fastener etc. all complete. (Basic rate of material shall not be less than Rs.3900 each)	Each	5	5703	28515
				0		
16.29	MR 5	Providing and fixing white vitreous china oval shape wash basin (counter top) of size 560x400mm with C.I. brackets/rag bolt of required size, 32 mm C. P. brass waste coupling of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require complete as per direction of Engineer in Charge	Each	34	6298	214132
				0		
16.3	MR 6	Providing and fixing 600 x 450 mm beveled edge mirror of superior glass (of approved quality) fixed with stainless steel studs, complete with cutting, making holes, studs, all fittings, screws, washers and	Each	178	1507	268246
16.32	MR 7	Providing and fixing C.P. brass swan neck foam flow pillar cock of approved quality and conforming to IS standards. a) 15mm nominal bore	Each	34	930.05	31621.7
16.31	MR 8	Providing & fixing stainless steel robe plate/pegs (hook) having three pegs (hook) in one strip (weight shall not be less than 120 grams) of superior quality with necessary screws etc. complete.	Each	144	285	41040
	MR 9	Providing and fixing C.P. brass long body nozzle bib cock (two way) of approved quality conforming to IS standards and weighing not less a) 15 mm nominal bore	Each	29	959.85	27835.65
		Total of sub-head (16.0) (DSR)			0	2315781.805

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		Total of sub-head (16.0) (Non DSR)				611390.35
					0	
17		Internal Drainage Installations (As per D.S.R.)				
17.01	18.58	Providing and fixing PTMT grating of approved quality and colour		0	0	
17.01.1	18.58.1	Circular type		0		
17.01.2	18.58.1.1	100 mm nominal dia	Each	197	33.2	6540.4
				0		
17.01.3	18.58.1.2	125 mm nominal dia with 25mm waste hole.	Each	211	45.25	9547.75
				0	0	
17.02	12.41	Providing & 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		0	0	
17.02.1	12.41.2	110 mm diameter	Metre	1105	319.75	353323.75
				0	0	
17.03	12.42.	Providing, 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.		0	0	
17.03.1	12.42.1.2	Coupler -110 mm diameter	Each	30	119.95	3598.5
17.03.2	12.42.5.2	Bend -87.5 deg -110 mm diameter	Each	266	132	35112
17.03.3	12.42.6.2	Shoe -110mm shoe	Each	30	115.95	3478.5
				0		
18	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.		0		
18.01	12.43.2	110mm	Each	692	310.85	215108.2
19	MR 10	Providing, fixing, jointing and testing in position of ISI marked UV stabilized uPVC pipes for soil, waste, and vent, Type-B as per IS : 13592 suitable for rubber ring joints, including all neccessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, WC connectors, couplers, expansion joints / bellows, cowels, clamps, rubber rings, clean outs etc. fixing at wall/ ceiling/ floor level supported by clamp & hangers etc. in concealed / inside duct / under floor & basement ceiling / external work etc. including chase cutting as required, excavation and back filling in all kind of soils, suspended from floor under false ceiling or embedding the pipes laid under floors / building in 75 mm. around 1:2:4 cement concrete (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cost of shuttering for proper completion of the work, breaking and making good the walls and floors etc. after pipes have been duly laid and tested. The rubber ring shall confirm to IS:5382. The Pipes will be supported with threaded G I rods & U clamps with nuts, washers etc on 50x50x5 mm slotted angle. The cost will include all support arrangements. The work includes commissioning of all pipes lines as per				
		a) 110 mm dia (Wall Thickness - 3.2 to 3.8 mm)	Metre	1667	617	1028539
		b) 75 mm dia (Wall Thickness - 3.2 to 3.8 mm)	Metre	190	483	91770
19.01	MR 11	Providing and fixing UPVC, P or S trap of self cleaning design with / without vent arm setting in cement concrete 1:2:4 mix complete including cost of cutting & making good the wall and floors wherever				
		110 mm inlet & 110 mm outlet	Each	116	235	27260

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
19.02	MR 12	Providing and fixing uPVC inlet fitting (Hopper) maximum with 2 or 3 inlets of 40 to 63 mm OD size fabricated from 110 OD uPVC pipe fixed to uPVC trap jointing with solvent cement joint and set in a cement concrete 1:2:4 mix complete including cost of cutting and making good the walls and floors wherever	Each	87	340.1	29588.7
19.03	MR 13	Providing and fixing uPVC floor drain with uPVC reducing elbow including all fitting and accessories fixed in cement mortar complete in all respect.				
		110 mm OD x 63 mm OD	Each	94	177.4	16675.6
19.04	MR 14	Providing and fixing of uPVC Waste pipes 6 kg/cm2 (IS: 4985:2000) including with all fittings e.g. couplings, tees, bends, reducers and screwed adoptors jointing with solvent cement as per Manufacturer's specifications complete including cutting holes or chases in wall and making good the same wherever required. (Waste pipe from fixtures).				
		a) 40 mm Outer Diameter	Metre	225	268	60300
19.05	MR 15	Providing and fixing uPVC cleanout plug conforming to IS:14735 – 1999 complete with all fitting and accessories all complete. a) 100 mm	Each	127	179.55	22802.85
		Total of sub-head (17.0) (DSR)				626709.1
		Total of sub-head (17.0) (Non DSR)				1276936.15
20		Water Supply Installations (As per D.S.R.)				
				0	0	
20.01	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of engineer in		0	0	
		Internal work -Exposed on Wall		0	0	
20.01.1	18.7.3	25 mm nominal dia pipes	Metre	359	408.55	146669.45
20.01.2	18.7.4	32 mm nominal dia pipes	Metre	243	500.95	121730.85
20.01.3	18.7.5	40 mm nominal dia pipes	Metre	174	674.35	117336.9
20.01.4	18.7.6	50 mm nominal dia pipes	Metre	6	927	5562
21	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having the thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. this includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases and making good the wall same including testing of joints complete as per the direction of engineer incharge		0	0	
		Concealed work including cutting chases and making good the wall etc.		0	0	
21.01.1	18.8.2	20 mm nominal dia pipes	Metre	777	513.75	399183.75
21.01.03	18.8.3	25 mm nominal dia pipes	Metre	301	626.05	188441.05
	18.8.4	32 mm nominal dia pipes	Metre	198	712.75	141124.5
				0		
22	18.1	Providing and fixing G.I. pipes complete with GI fittings and clamps including cutting and making good the walls etc. (internal work)		0		
		Internal work - Exposed on wall		0		
22.01.1	18.10.3	25 mm dia, nominal bore	Metre	0	491.2	0
22.01.2	18.10.4	32 mm dia, nominal bore	Metre	25	563.6	14090
22.01.3	18.10.5	40 mm dia, nominal bore	Metre	15	725.15	10877.25
22.01.4	18.10.6	50 mm dia, nominal bore	Metre	10	893.2	8932
18.03.5	18.12.7	65 mm dia, nominal bore	Metre	25	1007	25175
18.03.6	18.12.8	80mm nominal bore	Metre	0	1158	0
				0	0	0

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
22.01	18.38	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade		0	0	0
		Two more coat on new work	sqm	0		0
22.01.1	18.38.3	25 mm dia, nominal bore	Metre	0	25.6	0
22.01.2	18.38.4	32 mm dia, nominal bore	Metre	25	30.7	767.5
22.01.3	18.38.5	40 mm dia, nominal bore	Metre	15	36.05	540.75
						0
				0	0	0
22.02	18.17	Providing and fixing gun metal gate valve with CI wheel of approved quality (screwed ends)		0	0	0
22.02.1	18.17.1	25mm dia, nominal bore	Each	15	532.35	7985.25
22.02.2	18.17.2	32 mm dia, nominal bore	Each	5	589.9	2949.5
22.02.3	18.17.3	40 mm dia, nominal bore	Each	0	707.3	0
22.02.4	18.17.4	50 mm dia, nominal bore	Each	0	878.25	0
				0	0	
22.03	18.19	Providing and fixing gun metal non- return valve of approved quality (screwed end)		0	0	
22.03.1	18.19.3.1	25 nominal bore	Each	15	815.05	12225.75
22.03.2	18.19.4.1	32 nominal bore	Each	5	1173.65	5868.25
22.03.3	18.19.6.1	40 nominal bore	Each	0	3536.15	0
				0	0	
22.04	18.16	Providing and fixing brass stop cock of approved		0	0	
22.04.1	18.16.1	15mm nominal bore	Each	18	303.85	5469.3
22.04.2	18.16.2	20mm nominal bore	Each	38	327.95	12462.1
22.05	ELECT. DSR 2018 / 16.11	Supplying, fixing, testing and commissioning of following valves, gauges and strainers for condenser water circulation as per specifications.		0	0	
22.05.1	16.11.1	BUTTERFLY VALVE (MANUAL) with C I body SS Disc, Nitrile Rubber Seal & O- Ring PN 16 pressure rating for chilled water/hot eater circulation as		0	0	
22.05.2	16.11.1.6	65 nominal bore	Each	5	3821	19105
22.05.3	16.11.1.5	80 nominal bore	Each	6	4055	24330
22.05.4	16.11.1.4	100 nominal bore	Each	3	5412	16236
				0		
22.06	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats		0		
22.06.1	18.18.3	25 mm nominal bore	Each	20	399.15	7983
		Water Supply Internal Work (Non Scheduled)				
22.07	MR 16	Providing and fixing C.P.V.C. ball valve in C.P.V.C. pipe including jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Astral/Prince/Prakash make or equivalent)				
22.07.1		a) 15 mm dia nominal bore	Each	0	228	0
22.07.2		b) 20 mm dia nominal bore	Each	0	276.15	0
22.07.3		c) 25 mm dia nominal bore	Each	37	377.4	13963.8
	MR 17	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour.		0		
		a) 32 mm nominal bore	Each	10	142.05	1420.5
		b) 40 mm nominal bore	Each	10	202.25	2022.5
		Total of sub-head (18.0) (DSR)				1295045.15
		Total of sub-head (18.0) (Non DSR)				17406.8
						0
23		EXTERNAL SEWERAGE SYSTEM				0
						0

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
23.01	2.1	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, by mechanical/manual means ramming of bottoms, for all depth, 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 :				
23.01.1	2.10.1	All kinds of soils				
23.01.2	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	816	293.4	239414.4
23.02	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :		0	0	0
23.02.1	19.1.2	150 mm diameter	Metre	634	591.4	374947.6
23.02.2	19.1.4	250 mm diameter	Metre	182	1293.9	235489.8
				0		0
23.03	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 :		0		0
23.03.1	19.3.2	150 mm dia S.W pipe	Metre	317	689.75	218650.75
23.03.2	19.3.4	250 mm dia S.W pipe	Metre	91	943.9	85894.9
23.04	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :		0		0
23.04.1	19.2.2	150 mm diameter S.W. pipe	Metre	317	1095.15	347162.55
23.04.2	19.2.4	250 mm diameter S.W. pipe	Metre	91	1476.35	134347.85
						0
23.05	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominalsize), inside plastering 12 mm thick with cement mortar 1:3 (1 cement: 3 coarse sand) finished with floating coat of neat cement andmaking channels in cement concrete 1:2:4 (1 cement : 2 coarsesand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per				0
23.05.1	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :				0
23.05.2	19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	73	11687.1	853158.3
	19.7.2	Inside size 120x90 cm and 90 cm deep including C.I. Cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :				
	19.7.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	14	24405.9	341682.6
						0

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
23.06	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), 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 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 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per				0
23.06.1	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				0
23.06.2	19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	7	11886.45	83205.15
				0	0	0
23.07	19.8	Extra for depth for manhole with F.P.S. bricks		0	0	0
23.07.1	19.8.1	Size 90 X 80 cm				0
23.07.2	19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	5	8127.45	40637.25
	19.8.2	Size 120x90 cm				0
	19.8.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre		9744.25	0
23.08	19.1	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m				0
23.08.1	19.10.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	10	6986.8	69868
	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) :				
	19.11.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each		22951.95	0
	19.12	Extra depth for circular type manhole 1.22 m internal dia (at bottom) beyond 1.68 m to 2.29 m :				
	19.12.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre		9068.35	0
				0	0	0

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
23.09	19.16	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	each	105	487.1	51145.5
				0	0	0
23.1	19.4	Providing and fixing square-mouth S.W. gully trap class SP-I complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70kg as per standard design:		0	0	0
23.10.1	19.4.3.1	180x150 mm size P type With FPS bricks	each	56	2534	141904
						0
23.11	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and				
23.11.1	19.19.1	HD - 10				
23.11.2	19.19.1.1	Circular shape 500 mm internal diameter		6	1494.2	8965.2
				0		
23.12	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.		0		
23.12.1	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	14	28029.15	392408.1
	19.33	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including S.W. drain pipe 100 mm diameter and 1.20 m long complete as per standard design.	Each	1	2940.2	2940.2
24.12	19.21.1	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) cement plastered on both sides with cement mortar 1:3 (1cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete for	each	0	683.7	0
		Total of sub-head (19.0) (DSR)				3621822.15
25		External Storm Water Drainage System				
25.01	2.1	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, by mechanical/manual means ramming of bottoms, for all depth, 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				
25.01.1	2.10.1	All kinds of soil				
25.01.2	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	315	293.4	92421
25.01.3	2.10.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	Metre	23	458.1	10536.3

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
25.02	2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed. within a				
25.02.1	2.13.1	Ordinary rock				
25.02.2	2.13.1.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	Metre	35	825.3	28885.5
25.02.3	2.13.1.3	Pipes, cables exceeding 300 mm dia but not exceeding 600 mm dia	Metre	3	949.6	2848.8
25.03	19.6	Providing and laying non-pressure NP2 class (light duty) RCC 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. (for storm drainage)				
25.03.1	19.6.2	150 mm dia RCC pipe	Metre	150	493.1	73965
25.03.2	19.6.3	250 mm dia RCC pipe	Metre	100	811.15	81115
25.03.3	19.6.4	300 mm dia RCC pipe	Metre	100	902.05	90205
25.03.4	19.6.5	450 mm dia RCC pipe	Metre	25	1481.55	37038.75
25.04	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 :				
25.04.1	19.3.2	150 mm diameter S.W. pipe	Metre	75	629.3	47197.5
25.04.2	19.3.4	250 mm diameter S.W. pipe	Metre	50	861.15	43057.5
25.04.3	19.3.5	300 mm diameter S.W. pipe	Metre	100	993.65	99365
25.03.4	analysed	450 mm dia RCC pipe	Metre	25	1155	28875
25.05	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :				
25.05.1	19.2.2	150 mm diameter S.W. pipe	Metre	75	1095.15	82136.25
25.05.2	19.2.4	250 mm diameter S.W. pipe	Metre	50	1476.35	73817.5
25.06	19.27	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as		0		
25.06.1	19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	79	5589.45	441566.55
25.06.2				0	0	
25.07	9.5	Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.	Sqm	28.26	1484.7	41957.622
25.08	12.41	Providing & fixing on wall face unplasticised -Rigid PVC rain water pipes conforming to IS:13592 Tyape A included jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion. (i)Single socketed pipes.		0	0	
25.08.1	12.41.2	110 mm diameter	Metre	60	319.75	19185
25.09	23.1	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS:2800(Part I), including collecting sample from different strata , preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge upto 90m depth below ground level		0	0	
25.09.1	23.1.1	All types of Soil		0	0	
25.09.1.1	23.1.1.1	300 mm dia	Metre	180	592.05	106569

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
				0		
25.1	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 & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.		0		
25.11.1	23.3.2	150mm nominal size dia	Metre	100	668.5	66850
				0		
25.11	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 required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.		0		
25.12.1	23.4.2	150 mm nominal size dia	Metre	80	681.9	54552
				0		
25.12	23.5	Supplying, filling, spreading & levelling stone boulders of size range 5cm to 20cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	4	1302.3	5209.2
				0		
25.13	23.6	Supplying, filling, spreading & levelling gravel of size range 5mm to 10mm, in recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-	cum	4	1309	5236
				0		
25.14	23.7	Supplying, filling, spreading & levelling coarse sand of size range 1.5mm to 2mm, in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer-in-	cum	4	1309	5236
25.15	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 450x50 mm, 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	Each	300	1213.25	363975
				0		
25.16	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tube well as per IS:2800 (part D).		0	0	
25.17.1	23.15.1	150 mm dia	each	6	228.25	1369.5
25.17	Derived from DSR 2019	Constructing brick masonry open surface drain with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 fine sand) including 10 cm thick bed concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) for filling haunches including 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) with a floating coat of neat cement inside the drain, its top and exposed side including disposal of surplus earth complete as per a) 25 cm drain 30 cm average depth, With F.P.S. bricks		0	0	
			each	300	1452.25	435675
25.18	Derived from DSR 2019	Extra for additional depth for brick masonry open surface drain : a) 25 cm drain 30 cm depth, with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	10	368.75	3687.5
		Total of sub-head (20.0) (DSR)				2342532.472
					0	
26		EXTERNAL WATER SUPPLY SYSTEM AND PUMPS			0	
		DISTRIBUTION NETWORK FOR FRESH WATER SUPPLY			0	

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
					0	
26.01	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including ,trenching and refilling etc.			0	
		external works			0	
26.01.1	18.12.3	25mm nominal bore	Metre	175	417.95	73141.25
26.01.2	18.12.4	32mm nominal bore	Metre	292	457.7	133648.4
26.01.3	18.12.5	40mm nominal bore	Metre	315	558.35	175880.25
26.01.4	18.12.6	50mm nominal bore	Metre	138	654.2	90279.6
26.01.5	18.12.7	65mm nominal bore	Metre	123	768.6	94537.8
26.01.6	18.12.8	80mm nominal bore	Metre	95	919.1	87314.5
				0		
26.02	18.4	Painting GI pipes and fittings with two coats of anti corrosive bitumastic paint of approved quality		0		
26.02.1	18.40.3	25 mm dia, nominal bore	Metre	175	15.25	2668.75
26.02.2	18.40.4	32 mm dia, nominal bore	Metre	292	18.4	5372.8
26.02.3	18.40.5	40mm nominal bore	Metre	315	20.95	6599.25
26.02.4	18.40.6	50 mm dia, nominal bore	Metre	138	25.25	3484.5
26.02.5	18.40.7	65 mm dia, nominal bore	Metre	123	31.3	3849.9
26.02.6	18.40.8	80mm nominal bore	Metre	95	36.4	3458
				0		
26.03	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :		0		
		external works		0		
26.03.1	18.17.1	25mm nominal bore	Each	15	532.35	7985.25
26.03.2	18.17.2	32 mm dia, nominal bore	Each	5	589.9	2949.5
26.03.3	18.17.3	40mm nominal bore	Metre	5	707.3	3536.5
26.03.4	18.17.4	50mm nominal bore	Each	3	878.25	2634.75
26.03.5	18.17.5	65mm nominal bore	Each	2	1490.7	2981.4
26.03.6	18.17.6	80mm nominal bore	Each	2	2227.6	4455.2
				0		
26.04		Providing and filling sand of grading zone V or coarser grade all-round the G.I. pipes in external work.		0		
26.04.1	18.41.3	25mm dia pipe	Metre	175	164.1	28717.5
26.04.2	18.41.4	32mm dia pipe	Metre	292	168.35	49158.2
26.04.3	18.41.5	40mm dia	Metre	315	170.5	53707.5
26.04.4	18.41.6	50mm dia pipe	Metre	138	176.9	24412.2
26.04.5	18.41.7	65mm dia pipe	Metre	123	279.2	34341.6
26.04.6	18.41.8	80mm dia pipe	Metre	95	287.7	27331.5
				0	0	
26.05	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) :		0	0	
26.05.1	18.59.1	50 mm dia	Each	1	5171.75	5171.75
26.05.2	18.59.2	80 mm dia	Each	1	6255.45	6255.45
26.05.3	18.59.3	100 mm dia	Each		8214.1	0
				0	0	
26.06	18.31.1	Providing & Fixing C.I.sluiice valve(with cap) complete with bolts,nuts,rubber insertions etc.(the tail pieces if required will be paid separately)		0	0	
26.06.1	18.31.1.1	100 mm dia.pipe Class I	Each	1	4097.9	4097.9
				0	0	
26.06.2	18.32.1	Constructing masonry chamber 30x30x50 cm,inside with 75 class designation brick work in cement mortar 1:4 (1 cement:4 coarse sand) for stop cock complete with C.I. surface box 100x100x75mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 corase sand: 4 graded stonr aggregate 20mm nominal size) necessary excavation foundation concret 1:5:10 (1 cement:5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortor 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard desion	Each	2	1712.15	3424.3
				0	0	

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
26.07	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 size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard		0	0	
26.07.1	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	4	10102.5	40410
26.08	18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard		0	0	
26.08.1	18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	1	17577.9	17577.9
				0	0	
26.09	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc.				
26.09.1	18.13.2	50 to 80 mm nominal bore	Item	8	1513.7	12109.6
				0	0	
26.1	ELECT. DSR 2018/ 16.11.1	BUTTERFLY VALVE (MANUAL) with C I body SS disc nitrile sheet & O - ring & PN 16 pressure rating as specified.		0	0	
26.10.1	16.11.1.6	65 nominal bore	Each	2	3821	7642
26.10.2	16.11.1.5	80 nominal bore	Each	4	4055	16220
				0		
26.11	ELECT. DSR 2018 / 16.11.2	NON - RETURN VALVE with dual plate of C I body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating as specified.		0		
26.11.1	16.11.2.2	150 nominal bore	Each	2	7899	15798
26.11.2	16.11.2.4	100 nominal bore	Each	2	5094	10188
26.11.3	16.11.2.5	80 nominal bore	Each	2	3477	6954
				0		
26.12	ELECT. DSR 2018 / 14.13	Providing and fixing GI pipes medium class conforming to IS 1239 with GI fittings including cutting hole chase painted with primer, two coats of		0		
26.12.1	14.13.3	100 mm dia, NB	Metre	55	1806	99330
26.12.2	14.13.4	150 mm dia, NB	Metre	25	2740	68500
					0	
		Total of sub-head (21.0) (DSR)				1236125
					0	
27		Bore Well Installations (As per D.S.R)			0	
					0	
27.01	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level			0	
27.01.1	23.1.1	All types of soil			0	
27.01.2	23.1.1.1	300 mm dia	metre	100	592.05	59205
27.01.3	23.1.2	Rocky strata including Boulders		0		

SCHEDULE OF QUANTITIES						
S. No.	DSR 2019	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
27.01.4	23.1.2.1	300 mm dia	metre	30	1416.3	42489
				0		
27.02	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.	Meter			
27.02.1	23.3.3	200mm nominal dia	Meter	80	951.95	76156
27.03	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		0		
27.03.1	23.4.3	200 mm nominal size dia	metre	40	1099.25	43970
27.04	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	8	1479.25	11834
				0	0	
				0	0	
27.05	23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc. all as per	hour	72	916.8	66009.6
27.06	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:				
27.07.1	23.13.3	200 mm nominal size dia	Each	2	280.95	561.9
				0	0	
27.07	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.		0	0	
27.08.1	23.14.3	200 mm clamp	Each	4	1827	7308
				0	0	
27.08	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).		0	0	
27.09.1	23.15.3	200 mm dia	Each	2	308.55	617.1
		Total of sub-head (22.0) (DSR)				308150.6