## PRICE BID DOCUMENT For

"Construction of EMRS (Eklavya Model Residential School) at Aalo, Village (Biru) Distt. West Siang, in the state of Arunachal Pradesh"

Tender No: TCIL/CIVIL/PD(NE-1)/2024/EMRS/04

Issued on: 25-06-2024

#### Volume II: Financial Bid

#### Issued By:

GM (CIVIL)/ Project Director (NE-1)
Telecommunications Consultants India Limited
Guwahati, Assam- 781033
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TEIL OF

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<a href="mailto:cil.net.in">CIN No.:U74999DL1978GOI008911</a>



DATED: 25-06-2024

# Volume II Financial Bid

**DATED: 25-06-2024** 

#### VOLUME - II FORWARDING LETTER – PART (A)

**DATED: 25-06-2024** 

CONTRACTOR'S NAME &ADDRESS:	_
CONTRACTOR'S TELEPHONE No.:  FAX No.:  E-mail	
То	
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 TenderDate:	No:
1. I/We have thoroughly examined and understood instructions to contractors, term conditions of the contract given in the NIT and those contained in the general conditi contract and its appendices, and annexure and agree to abide by all the terms & conditi the tender document and corrigendum etc.	ons of
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, etc. including GST and excluding EPF & ESI, for this performance of the contract.	levies
2. I/We agree to keep the offer open for acceptance up to and inclusive of the date as mention the tender document. I/ We shall be bound by communication of acceptance of the offer dispatched the time.	
3. I / We do hereby declare that the entries made in the tender and appendices attached there true and also that I/We shall be bound by the act of my/our duly constituted attorney M whose signature is appended here to in the space specified for the purpose and of any person who in future may be appointed by me/ us to carry out the business of the firm.	Ir./Ms.
Yours faithfully	
(Signature of Constituted Attorney) (Signature of contractor) (Canacity in which signing along with seal)	

#### TCIL/CIVIL/PD(NE-1)/2024/EMRS/04

NOTE:

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

**DATED: 25-06-2024** 

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

Name a	id address of Bidder	
Name		
Address		
Date:		_
Name a	nd address of witness	
Name_		
Address	<u> </u>	
D-4		_
Date:		_

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

**DATED: 25-06-2024** 

То

#### **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 Aalo, Village (Biru), Distt. West Siang in the state of Arunachal Pradesh".

NIT NO: TCIL/CIVIL/PD(NE-1)/2024-/EMRS/04, DATED: 25-06-2024

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 Aalo, Village (Biru) Distt. West Siang, in the state of Arunachal Pradesh

DATED: 25-06-2024

#### NIT No. TCIL/CIVIL/PD(NE-1)/2024/EMRS/04 DATED: 25-06-2024

#### **Summary of Cost**

Name of Bidder: M/s

S.	S. No. Description	INK	Percentage quoted by the tenderer above/ below/ at par the total amount of BOQ				Quoted Amount (INR)
			Above/ Below/ At par	% age in figure	% age in Words	in figure	in Words
[1]	[2]	[3]	[4]	[5]	[6]	[7]	
a)	DSR Items	47,25,07,686	A 1/				
b)	Non DSR Items	4,34,94,730					
c)	Total(a+b)	51,60,02,416	par				

#### NOTE:

- 1. The tendered 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 inserted as '0' (i.e. zero). In such case, if the tenderer fills any value of percentage (other than '0') under column 5, then it will not be given any cognizance and "At par" option (i.e. "Zero" percent) chosen by the tenderer shall take precedence and the amount will be taken as "At par" irrespective of 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 thew works, as per actuals, on receipt of proof of payment, subject to a ceiling of Rs 1,98,11,377.30 (i.e., @4% on estimated construction cost of works except cost of furniture), 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 of Bidder

# Name of work: Construction of Eklavya Model residential school (EMRS) Aalo, District- West Siang, Arunachal Pradesh.

	SUMMARY SHEET		
S.No	PARTICULARS	AMOUNT	• •
		DSR	NON DSR
	CIVIL WORKS	0.000.005	
1	Earth Work	6,669,965	
2	Concrete Work	9,844,829	
3	Reinforced Cement Concrete	142,136,833	
4	Masonry Work	12,624,781	
5	Stone Work	4,636,898	
6	Cladding Work	4,800,602	
7	Wood & PVC Work	4,003,404 13,039,675	
8	Steel Work	17,889,253	
9	Flooring	2,517,355	
10	Roofing	22,638,709	
11 12	Finishing Aluminium Work	249,633	
13		4,556,287	
14	Water Proofing Road Work	8,891,749	
15	Non-Schedule Items	0,031,743	6,261,470.50
13	TOTAL AMOUNT (DSR)	254,499,972	0,201,470.30
	TOTAL AMOUNT (NON DSR)	204,400,012	6,261,470.5
	Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as	152699983	0,201,470.0
	160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.	10233333	
	GRAND TOTAL (CIVIL WORKS) (In Rs)	407,199,955	
		101,100,000	
	PLUMBING WORKS		
16	Sanitary Installations	2,523,208.40	611,896.00
17	Drainage Installations	508,371.75	1,330,418.10
18	Water supply Installations	1,782,872.60	23,776.20
19	External Sewage Drainage System	2,611,846.44	
20	External Storm Water Drainage System	1,959,426.01	
21	External Fresh Water Supply System	1,070,302.15	
22	Bore well	161,934.00	
	TOTAL AMOUNT (DSR)	10,617,961.35	
	TOTAL AMOUNT (NON DSR)	6370777	1,966,090.30
	Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as	6370777	
	160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.		
	GRAND TOTAL (CIVIL WORKS) (In Rs)	16,988,738	
	FIRE FIGURING WORKS		
22	FIRE FIGHTING WORKS	638,081.30	2,046.00
23 24	Piping & Valves Fire Hydrant Accessories	156,150.00	2,040.00
25	Fire Extinguishers & Miscellaneous Items	130,130.00	89,942.00
	Fire Pumps & Accessories	313,341.00	111,852.00
/ h			111,002.00
26	TOTAL AMOUNT (DSR)	1 107 572 30	
26	TOTAL AMOUNT (DSR) TOTAL AMOUNT (NON DSR)	1,107,572.30	203.840.00
26	TOTAL AMOUNT (NON DSR)	·	203,840.00
20	, ,	1,107,572.30	203,840.00
	Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated	·	203,840.00
	TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.  GRAND TOTAL (CIVIL WORKS) (In Rs)	664543	203,840.00
	TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.  GRAND TOTAL (CIVIL WORKS) (In Rs)  ELECTRICAL WORKS (Internal)	1,772,115	203,840.00
27	TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.  GRAND TOTAL (CIVIL WORKS) (In Rs)  ELECTRICAL WORKS (Internal)	1,772,115 8,066,696.00	
	TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.  GRAND TOTAL (CIVIL WORKS) (In Rs)  ELECTRICAL WORKS (Internal)	1,772,115 8,066,696.00 1,230,613.00 484,772.00	15,444.00 18,614.00
27 28	TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.  GRAND TOTAL (CIVIL WORKS) (In Rs)  ELECTRICAL WORKS (Internal)  Internal Wiring  Distribution Boards & MCB's  Telephone, Television & Data System (socket,wiring & conduting only)  Light Fixtures & Fan	1,772,115 8,066,696.00 1,230,613.00 484,772.00 586,185.00	15,444.00 18,614.00
27 28 29	TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.  GRAND TOTAL (CIVIL WORKS) (In Rs)  ELECTRICAL WORKS (Internal)  Internal Wiring  Distribution Boards & MCB's  Telephone, Television & Data System (socket,wiring & conduting only)  Light Fixtures & Fan  TOTAL AMOUNT (DSR)	1,772,115 8,066,696.00 1,230,613.00 484,772.00	15,444.00 18,614.00 1,908,230.00
27 28 29	TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.  GRAND TOTAL (CIVIL WORKS) (In Rs)  ELECTRICAL WORKS (Internal)  Internal Wiring  Distribution Boards & MCB's  Telephone, Television & Data System (socket,wiring & conduting only)  Light Fixtures & Fan	1,772,115 8,066,696.00 1,230,613.00 484,772.00 586,185.00 10,368,266.00	15,444.00 18,614.00 1,908,230.00
27 28 29	TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.  GRAND TOTAL (CIVIL WORKS) (In Rs)  ELECTRICAL WORKS (Internal)  Internal Wiring  Distribution Boards & MCB's  Telephone, Television & Data System (socket,wiring & conduting only)  Light Fixtures & Fan  TOTAL AMOUNT (DSR)	1,772,115 8,066,696.00 1,230,613.00 484,772.00 586,185.00	15,444.00 18,614.00 1,908,230.00 1,942,288.00
27 28 29	TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.  GRAND TOTAL (CIVIL WORKS) (In Rs)  ELECTRICAL WORKS (Internal)  Internal Wiring  Distribution Boards & MCB's  Telephone, Television & Data System (socket,wiring & conduting only)  Light Fixtures & Fan  TOTAL AMOUNT (DSR)  TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.	1,772,115 8,066,696.00 1,230,613.00 484,772.00 586,185.00 10,368,266.00	15,444.00 18,614.00 1,908,230.00
27 28 29	TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated 27.09.2021.  GRAND TOTAL (CIVIL WORKS) (In Rs)  ELECTRICAL WORKS (Internal)  Internal Wiring  Distribution Boards & MCB's  Telephone, Television & Data System (socket,wiring & conduting only)  Light Fixtures & Fan  TOTAL AMOUNT (DSR)  TOTAL AMOUNT (NON DSR)  Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as 160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated	1,772,115  8,066,696.00 1,230,613.00 484,772.00  586,185.00 10,368,266.00  6220960	15,444.0 18,614.0 1,908,230.0

**TOTAL DSR & NDSR Amount** 

516,002,416.46

## Name of work: Construction of Eklavya Model residential school (EMRS) Aalo, District- West Siang, Arunachal Pradesh.

	SUMMARY SHEET						
S.No	PARTICULARS	AMOUN	Γ (IN Rs.)				
		DSR	NON DSR				
31	Transformer and HT Panel		1,234,006.00				
32	LT Panel, Feeder Pillar and Capacitor Panels		1,443,617.00				
33	LT Cables	596,351.00	1,404,240.00				
34	HT Cables	29,404.00	84,700.00				
35	Miscellaneous	9,277.00	19,867.00				
36	Earthing	1,900,878.00					
37	Pole Erection	294,348.00					
38	External Lighting System	403,460.00	1,490,705.00				
39	UPS - 10 kVA		237,041.00				
40	Lightning Arrestor System for Transformer		11,904.00				
41	Pumps		264,322.00				
42	CCTV System	156,385.00	456,020.00				
43	Lightning Conductor	317,295.00					
44	25 KVA DG Set and associated works		575,120.00				
	TOTAL AMOUNT (DSR)	3,707,398.00					
	TOTAL AMOUNT (NON DSR)		7,221,542.00				
	Add enhancement @ 60% due to increase in cost Index (latest) for Aalo as	2224439					
	160 as on 01.04.2021 with DPAR 2021 (base 100) vide CPWD memo dated						
	27.09.2021.						
		5,931,837					
	GRAND TOTAL (CIVIL WORKS) (In Rs)	5,931,037					
	Equipment etc. for Kitchen & Pantry						
45	Equipment for Kitchen & Pantry, Kitchen ventilation system and Kitchen LPG system	-	2,969,919.00				
	TOTAL AMOUNT (DSR)	-	, ,				
	TOTAL AMOUNT (NON DSR)		2,969,919.00				
	GRAND TOTAL (Equipment etc. for Kitchen & Pantry) (In Rs)		2,969,919.00				
	Furniture						
46	Classroom dual desks, office table, 12-seater meeting table, library table, computer	-	20,717,984.00				
	work station, open book shelf, glass door storage, sofa, steel bed, SS dining table,						
	lab stool, executive chairs, metal locker, writing board etc.						
	TOTAL AMOUNT (DSR)	-					
	TOTAL AMOUNT (NON DSR)		20,717,984.00				
	GRAND TOTAL( Furniture) (In Rs)		20,717,984.00				
	Amount with 12% CST	448,481,871.65	41,283,133.80				
	Amount with 12% GST Basic Amount	400,430,242.54	36,859,940.89				
	Add 18% GST	72,077,443.66	6,634,789.36				
			•				
	Total Amount with 18% GST	472,507,686.20	43,494,730.25				

	SCHEDULE OF O			Vest Siang, Arunacha	al Pradesh.	
DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)	
	CIVIL WORKS					
2	Earth Work					
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:					
	uncered by Engineer-in- Charge.	Cum	5800	107.00	620,600.0	
2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means <b>over areas</b> (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.					
2.6.1	All kinds of soil	Cum	10221	149.00	1,522,929.0	
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.					
2.7.1	Ordinary Rock	Cum		412.95		
2.7.3	Hard rock (requiring blasting)	Cum		1184.30		
2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in <b>foundation trenches</b> 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 ift, including getting out the excavated soil and disposal of surplus excavated soil as directed within al lead of					
2.8.1	All kinds of soil.	Cum	3454	218.60	755,046.3	
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.					
2.9.1	Ordinary Rock	Cum	163	523.50	85,330.5	
2.9.2	Hard rock (requiring blasting)	Cum	81	1258.60	101,946.6	
2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and for all lift.	Cum	12105	161.60	1,956,234.1	
2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.					
2.26.1	All kinds of soil	Cum	2551	104.50	266,579.50	
2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	395	2161.20	853,674.00	
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	35009	14.50	507,624.7	
	Total of sub-head (1.0)			6669964.80	6,669,964.80	
4	Concrete Work					
4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:					
4.1.8	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	101	6326.05	635,768.00	

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural	Cum	1031	6050.65	6,238,825.22
	sources: 10 graded stone aggregate 40 mm nominal size derived from natural sources)				
4.1.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size)	Cum	137	7365.15	1,011,139.35
Derived from basic rates of	Providing and laying broken autoclaved aerated cement (AAC) blocks and/or bats (light weight, having density 550-650 kg/m³) of nominal size 25mm to 65mm in the sunken portion of toilets upto	Cum	249	2488.20	619,561.80
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 finishing:				
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	63	9047.30	569,979.90
4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :				
4.3.1	Foundations, footings, bases for columns	Sqm	305	332.10	101,290.50
4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources: 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	Sqm	421	370.85	156,127.85
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	427	113.85	48,613.95
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	Sqm	680	681.65	463,522.00
	Total of sub-head (2.0)			9844828.588	9,844,828.59
5	Reinforced Cement Concrete				
5.9	Centering and shuttering including strutting, propping etc. and				
5.9.1	removal of form for : Foundations, footings, bases of columns, etc. for mass concrete	Sqm	2446	332.10	812,316.60
5.9.2	Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.	Sqm	1629	702.00	1,143,558.00
5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	7682	766.55	5,888,637.10
0.5.0		Sqm	426	766.55	326,550.30
5.9.4	Shelves (Cast in situ)	- 1			
	Shelves (Cast in situ)  Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	8319	608.35	5,060,559.48
5.9.4			8319 8010	608.35 804.25	
5.9.4	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm			6,442,042.50
5.9.4 5.9.5 5.9.6	Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm Sqm	8010	804.25	6,442,042.50 177,579.00
5.9.4 5.9.5 5.9.6 5.9.7	Lintels, beams, plinth beams, girders, bressumers and cantilevers  Columns, Pillars, Piers, Abutments, Posts and Struts  Stairs, (excluding landings) except spiral-staircases  Extra for shuttering in circular work(20% of respective centering and	Sqm Sqm Sqm	8010 270	804.25 657.70	5,060,559.48 6,442,042.50 177,579.00 4,825.50 6,974.10

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	987	821.35	810,672.45
3,3,13	- Treatment states, enaples, earlies etc., mentaling eagles	Sq.ii		021.55	010,072113
5.11	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).				
5.11.1	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	Sqm	1687	319.25	538,574.75
5.16	Providing, transporting, hoisting and fixing above plinth level up to floor five level precast reinforced cement conarete in shelves, including setting in cement mortar 1:3 (Icement : 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 nomrnal sire derived from naturalsources).	Cum	46	18038.45	829,768.70
5.22	Steel reinforcement for R.C.C. work including straightening, cutting,				
5.22.6	bending, placing in position and binding all complete upto plinth level.  Thermo-Mechanically Treated bars of grade Fe-500D or more.	lea	232899	89.65	20,879,395.35
3.22.0	Thermo-intechanically Treated bars of grade Fe-500D of more.	kg	232899	89.03	20,879,393.33
5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth				
5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	522100	89.65	46,806,265.00
5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	Metre	809	64.70	52,342.30
5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced ceemnt concrete work using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzoloana/ Ordinary Portland, Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate/retard setting of cement, to improve durability and workability without impairing strength, including pumping of concrete to site of laying, curing, carriage for all leads, but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of Engineer-incharge.  (Note: Extra cement upto 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum				
5.33.1.1	All works upto plinth level Concrete of M25 grade with minimum cement content of 330 kg/cum	Cum	2390	8683.80	20,757,028.45
5.55.1.2	Concrete of M30 grade with minimum cement content of 350 kg/cum	Cum	63	8825.35	555,997.05
5.33.2 5.33.2.1	All works above plinth level upto floor V level.  Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	3027	8964.75	27,136,298.25
5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg/cum	Cum	122	9106.35	1,111,430.02
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	224	-229.85	-51486.40
5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	quintal	1757	688.45	1,209,850.62
5.43	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints.				
5.43.1	200 mm wide.	Metre	107	747.30	79,961.10

DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					.
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				
	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.				
5.44.1	Floor Joint of 100 mm gap	Metre	107	5800.15	620,616.05
	g				0_0,000000
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.				
5.45.1	Wall Joint of 100 mm gap	Metre	127	4835.50	614,108.50
5.46	Providing and fiving of expansion joint system of engroved make and				
3.40	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				
	arragement 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				
	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				
5.46.1	Roof Joint of 50 mm gap	Metre	47	5424.20	254,937.40
	Total of sub-head (3.0)		142136832.8		142,136,832.76
			142100002.0		142,150,052.70
6	Masonry Work				
6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of				
6.1.2	class designation 7.5 in foundation and plinth in:  Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	485	6658.25	3,229,251.25
0.1.2	Cement mortal 1.0 (1 cement : 0 coarse sand)	Cum	463	0038.43	3,229,231.23
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				
612	V level in all shapes and sizes in :	Core	627	Q200 25	5 106 705 45
6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	627	8288.35	5,196,795.45

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
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				
6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	1290	1018.05	1,313,284.50
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	1290	86.45	111,520.50
6.38	Providing and laying Autoclaved Aerated concrete (AAC) blocks masonry 100 mm/ 125 mm thick with Grade-I AAC blocks of density 551 to 650 kg/ cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement: 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	Cum	312	8890.80	2,773,929.60
6.47	Providing and laying Autoclaved Aerated concrete (AAC) blocks masonry 150mm/*230mm/300mm thick AAC with Grade-I blocks of density 551 to 650 kg/ cum conforming to IS: 2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for senerately)	Cum	1164	7213.50	8,396,514.00
	Total of sub-head (4.0)		12624781.3		12,624,781.30
	Stone Work				
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 :				
7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	630	6653.45	4,190,010.14
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 level and the				
7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	54	8275.70	446,887.80
	Total of sub-head (5.0)		4636897.938		4,636,897.94
8	Cladding Work				
8.2.2	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. complete at all levels.				
8.2.2.1	Granite of any colour and shade Area of slab upto 0.50 sqm	Sqm	35	4679.35	163,777.25
8.2.2.2	Area of slab over 0.50 sqm	Sqm	218	4425.35	964,726.30
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	213	475.55	101,292.15
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.	Each	51	808.15	41,215.65

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
8.31	Providing and fixing Ist 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	3319	1063.45	3,529,590.5:
	Total of sub-head (6.0)				4,800,601.90
9	Wood Work & PVC Work				
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	148.50	16,632.00
9.21	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	636	2015.75	1,282,017.00
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 measured).	Sqm	648	401.40	260,107.20
9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter to be measured).	Sqm	228	93.65	21,352.20
9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets:				
9.47.2	25 mm dia (heavy type)	Metre	1015	159.35	161,740.25
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				
9.48.1	Fixed to steel windows by welding	kg	7736	181.00	1,400,216.00
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):				
9.24.1	Rectangular or square	Sqm	400	173.95	69,580.00
9.55	Deduction for not providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete:				
9.55.2	100x58x1.90 mm	Each	2650	-39.05	(103,482.50
9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868),				
9.96.1	transparent or dyed to required colour or shade, with nuts and screws 300x16 mm	Each	144	260.30	37,483.20
9.96.2	250x16 mm	Each	352	234.90	82,684.80
9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.  300 mm weighing not less than 200 gms	Dart.	2400	50.25	140.007.57
9.68.1	200 mm weigning not less than 200 gms	Each	2498	59.25	148,006.50
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	71	856.30	60,797.30
	Providing and fixing bright finished brass casement window fastener	Each	2498	76.30	190,597.40

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
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				
9.97.1	etc. complete :	Each	646	117.65	76,001.90
9.97.1	300x10 mm 150x10 mm	Each	398	75.55	30,068.90
9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws				
9.100.1	125 mm	Each	1176	60.05	70,618.80
9.100.2	100 mm	Each	156	53.25	8,307.00
9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
9.101.2	Twin rubber stopper	Each	591	62.25	36,789.75
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 hoards etc_including providing with two coats of approved	Each	1154	133.35	153,885.90
	Total of sub-head (7.0)				4,003,403.60
	Total of Sub-neau (7.0)				4,003,403.00
10	Steel Work				
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	592,033.05
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. ton cover of required thickness for rolling shutters 80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	27	3008.80	81,237.60
10.0.1	ONTIZE THE MICH WAS THE THE WHICK TOP TO THE	Sqiii	27	3000.00	01,237100
10.7	Providing and fixing ball bearing for rolling shutters.	Each	3	424.20	1,272.60
10.8	Extra for providing mechanical device chain and crank operation for operating rolling shutters				
10.8.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	Sqm	15	1108.70	16,630.50
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 dia 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).	kg	14282	109.00	1,556,738.00
10.1	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 erc.	kg	1155	46.00	53,130.00
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				

DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					
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	9080	114.65	1,041,022.00
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 primer.				
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	14182	146.15	2,072,699.30
10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
10.16.1	Hot finished welded type tubes	kg	22857	155.40	3,551,977.80
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.				
10.25.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	3930	102.25	401,842.50
10.25.2	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg	100	142.30	14,230.00
10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.				
10.26.1	M.S. tube	kg	1259	157.15	197,851.85
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-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing	kg	2773	612.25	1,697,769.25
10.29	Providing & fixing fly proof wire gauze to windows, clerestory				
10.29.2	windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete. Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	Sqm	570	971.55	553,783.50
10.30	Providing & fixing glass panes with putty and glazing clips in steel				
10.30.1	doors, windows, clerestory windows, all complete with: 4.0 mm thick glass panes (weights not less than 10 kg/ sqm)	Sqm	1177	940.30	1,106,733.10
10.30.2	5.0 mm thick glass panes (weights not less than 12.50 kg/ sqm)	Sqm	81	1243.50	100,723.50
	Total of sub-head (8.0)				13,039,674.55
11	Flooring				
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.				
11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	69	545.00	37,605.00
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 stens etc. complete	Sqm	1316	928.65	1,222,103.40

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	Sqm	1216	69.30	84,268.80
11.13	Providing and fixing glass strips in joints of terrazo/ cement concrete floors.				
11.13.1	40 mm wide and 4 mm thick	Metre	203	79.50	16,138.50
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 :				
11.23.3	Agaria White	Sqm	476	2608.15	1,241,479.40
11.23.5	Udaipur green marble	Sqm		2100.40	-
11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1:4(1 cement:4 coarse sand):				
11.26.1	25 mm thick.	Sqm	5454	1706.60	9,307,796.40
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	Sqm	703	2038.55	1,433,100.65
11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	1086	157.35	170,882.10
11.40	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	1011	1225.10	- 1,238,576.10
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				
11.41.2	matching pigments etc. complete Size of Tile 600x600 mm	Sqm	1639	1416.65	2,321,889.35
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 light with white cement & matching nigments etc. complete				
11.46.2	Size of Tile 600x600 mm	Sqm	168	1466.50	246,372.00
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	Sqm	367	1250.75	459,025.25
16.90	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 Engineer-in-Charge	Sqm	64	1719.00	110,016.00
	Total of sub-head (9.0)		17889252.95		17,889,252.95

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
12	Roofing				
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				
12.21.1	In 75x75 mm deep chase	Metre	15	260.20	3,903.00
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 complete.	Each	119	266.60	31,725.40
12.47	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'I' 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 rovigs 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				
12.47.2	2 mm thick flat	Sqm	35	1048.50	36,697.50
12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coating thickness 0.50mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever	Sqm	1492	671.55	1,001,952.60

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
12.51	Providing and fixing precoated galvanised steel sheet roofing				
12.31	accessories of total coating thickness 0.50mm (base metal of				
	minimum 0.45mm thickness with total coating thickness of				
	<b>0.05mm)</b> 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 ton coat 15-18 microns using self-drilling/ self-tanning				
12.51.2	Flashings/ Aprons.( Upto 600 mm)	Metre	62	412.85	25,596.70
12.51.4 12.51.6	Barge board (upto 300 mm) Gutter (600 mm over all girth)	Metre Metre	46 78	384.20 1110.60	17,673.20 86,626.80
12.31.0	Gutter (600 mm over an girth)	Metre	/6	1110.60	80,020.80
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				
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 Glass fiber acoustical fleece	Metre	752	1746.25	1,313,180.00
	Total of sub-head (10.0)				2,517,355.20
13	Finishing				
13.4	12 mm cement plaster of mix				
13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	19621	294.35	5,775,441.35
13.5	15 mm cement plaster on rough side of single or half brick wall of mix:				
13.5.2	1:6 (1 cement: 6 coarse sand)	Sqm	4552	339.10	1,543,583.20
					-,,
13.16	6 mm cement plaster of mix				
13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	11591	253.05	2,933,102.55
12.10			120	67.00	0.127.00
13.18	Neat cement punning	Sqm	120	67.80	8,136.00
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	9398	442.75	4,160,964.50
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	1260	18.50	23,310.00
	William and the middle through the common day to				
12 27					
13.37	White washing with lime to give an even shade:  New work (three or more coats)	Sqm	320	32.45	10,384.00

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					
13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade				
13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	31186	162.55	5,069,284.30
13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				
13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	Sqm	13776	142.95	1,969,279.20
13.50	Applying priming coat:				
13.50.3	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/steel works	Sqm	471	55.50	26,140.50
13.50	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including				
13.52.2	appropriate priming coat, preparation of surface, etc. complete. On concrete work	Sqm	1996	198.40	396,006.40
13.61	Painting with synthetic enamel paint of approved brand and				
13.61.1	manufacture to give an even shade : Two or more coats on new work	Sqm	4389	131.45	576,934.05
13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	1180	123.85	146,143.00
	Total of sub-head (11.0)		22638709.05		22,638,709.05
21	Aluminium Work				
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):				
21.1.1	1	kg	182	466.30	84,866.60
21.1.2	micron)  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)				
21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	195	553.55	107,942.25
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.	S	22	1010.00	22.425.00
21.3.1	With float glass panes of 4.00 mm thickness With float glass panes of 5 mm thickness (weight not	Sqm Sqm	22 4	1019.80 1325.55	22,435.60 5,302.20
	less than 12.50 kg/ sqm)	1 -			-,120
21.3.3	With float glass panes of 8 mm thickness (weight not less than 20 kg/ sqm)	Sqm	8	1496.15	11,969.20
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.				

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					
21.4.1	Will all the state of the state	r 1		2440.05	14 (02.10
21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	Each	6	2448.85	14,693.10
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.	Each	3	449.55	1,348.65
21.16	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-				
21.16.2	Powder coated minimum thickness 50 micron aluminium	Each	12	89.60	1,075.20
	Total of sub-head (12.0)		249633		249,632.80
22	Water Proofing				
22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:				
	(i) 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				
	(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				
	(iii) III'd 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 kg/sqm).	Sqm	1047	669.05	700,495.35
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:				
22.4.1	Serrated with central bulb (225 mm wide, 8-11 mm thick)	Sqm		285.60	-

DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					
22.7	Providing and laying integral cement based water proofing treatment				
2217	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				
	adioining walls unto 300 mm height including rounding of junctions 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-				
	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 Engineeringhargo including laying gloss fibra eleth of approved quality in the				
	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				
22.7.1	Engineer-in-Charge: With average thickness of 120 mm and minimum thickness at khurra	Sqm	2300.00	1502.95	3,456,785.00
	as 65 mm.	•			
22.23	Description and applying internal agentalling along of hydrochilis in				
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, reservior,				
	sewage & water treatment plant, tunnels / subway and bridge deck				
	etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral				
	crystalline slurry: 2 parts water) for vertical surfaces and 3:1 (3 parts				
	integral crystalline slurry: 1 part water) for horizontal surfaces and				
	applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as				
	specified in ACI-212-3R-2010 i.e by reducing permeability of				
	concrete by more than 90% compared with control concrete as per				
	DIN 1048 and resistant to 16 bar hydrostatic pressure on negative				
	side. The crystalline slurry shall be capable of self-healing of cracks				
	up to a width of 0.50mm. The work shall be carried out all complete				
	as per specification and the direction of the engineer-in-charge. The				
22.23.1	For vertical surface two coats @ 0.70 kg per sqm	Sqm	700	406.25	284,375.00
22.23.2	For horizontal surface one coat @1.10 kg per sqm.	Sqm	368	311.50	114,632.00
	Total of sub-head (13.0)				4,556,287.35
	Total of sub-nead (13.0)				4,330,207.33
	n ivi				
16	Road Work				
		Sam	9738	180.50	1 757 700 00
16.1	Preparation and consolidation of sub grade with power road roller of 8	Sqm	9738	180.50	1,757,709.00
		Sqm	9738	180.50	1,757,709.00
	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	Sqm	9738	180.50	1,757,709.00
	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	Sqm	9738	180.50	1,757,709.00
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 lift.				
	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 lift.  Brick edging in full brick width and half brick depth including	Sqm	9738	180.50	
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 lift.  Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.				
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 disnosal of surplus earth with all lead and lift.  Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.  Supplying, stacking and Spreading 6 mm thick red bajri, watering and				
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 disnosal of surplus earth with all lead and lift.  Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.  Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.	mtr	1036	179.50	1,757,709.00
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 disnosal of surplus earth with all lead and lift.  Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.  Supplying, stacking and Spreading 6 mm thick red bajri, watering and				
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 disnosal of surplus earth with all lead and lift.  Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres.  Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling.	mtr	1036	179.50	185,962.00

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
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)	Sqm	818	-279.10	(228,420.13)
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	235	141.80	33,323.00
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.				
16.46.1	Using grade 'A' sealing compound conforming to IS: 1834.	per cm depth per cm width per metre	2170	7.50	16,275.00
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 Engineerin-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	923	303.65	280,268.95
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	2813	99.95	281,159.35
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	Sqm	122	623.80	76,103.60
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.		16	22.15	270.40
16.66.1	All kind of soil	each	16	23.15	370.40
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 Engineer-in-charge.	Sqm	400	951.00	380,400.00
16.69	Providing and laying C.C. paveemnt 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 direction of Engineer-in-charge (The panel shuttering work shall be paid for separately) (Note:-Cement content considered in this item is @ 330 kg/cum. xcess/less ceemnt used as per design mix is payable/recoverable separately.	Cum	61	8613.55	525,426.55

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
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 separately).	Cum	235	8964.00	2,106,540.00
16.76	Deduct for using of M-20 grade concrete instead of M-25 grade concrete in C.C. pavement.	Cum	-235	191.10	(44,908.50)
16.3	Supplying and stacking at site.				
16.3.2	63 mm to 45 mm size stone aggregate	Cum	245	1624.50	398,002.50
16.3.3	53 mm to 22.4 mm size stone aggregate	Cum	245	1837.25	450,126.25
16.3.9	Good Earth	Cum	1819	624.55	1,136,118.91
16.3.10	Moorum	Cum	345	888.30	306,322.86
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	602	865.80	521,211.60
	Total of sub-head (14.0)		8842151		8,891,749.03
	Non-Schedule Items - Civil				
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	3750	17.00	63,750.00
MR 2	Providing and fixing 35mm thick factory made Machine pressed pre- laminated flush door exterior grade with SS Butt Hinges along with teak wood lipping on edges. The lamination sheet used shall be decorative high pressure of plain/ wood grain in gloss/ matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS: 2046 Tyne S.	Sqm	1160	5280.00	6,124,800.00
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 dissmilar material viz RCC and brick work etc.all complete.	Sqm	470	155.15	72,920.50
	Total of sub-head (15.0) (Non DSR)		1156260.5		6,261,470.50
			1130200.3		0,201,770.30
	PLUMBING WORKS				
	Sanitary Installation (As per D.S.R.)				
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 patitions 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	00	7	25/12/05	25 240 52
8.10.2	Granite Stone of approved shade	sqm	1	3542.85	25,260.52
17.10	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.				
17.10.2	Sink without drain board			ı l	-

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					
17.11	Providing and fixing white vitreous china laboratory sink with C.I.				-
17.11	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				
17.11.2	the wall wherever required : Size 600x450x200 mm	Each	12	5610.85	67,330.20
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:				
17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	57	5540.55	315,811.35
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 Eureopean type W.C. of quality and make as approved by Engineer - in-charge	Each	57	299.35	17,062.95
17.70 17.70.1	Providing and fixing PTMT Bottle Trap for Wash basin and sink.  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	Each	68	325.10	22,106.80
	not less than 260 gms.				_
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 wherever required.	Each	17	3257.86	55,383.68
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	204.70	18,832.40
18.49	Providing and fixing C.P. brass bib cock of approved quality				
18.49.1	conforming 15mm nominal bore	Each	166	434.20	72,077.20
18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.				-
18.50.1	15mm nominal bore	Each	323	715.05	230,961.15
18.52	Providing and fixing C.P. brass stop cock (concealed) of standard				
18.52.1	design and of approved make conforming to IS:8931.  15 mm nominal bore (For Shower)	Each	136	594.75	80,886.00
18.53	Providing and fixing C.P. brass angle valve for basin mixer and				ŕ
18.53.1	points of approved quality conforming to IS:8931 15 mm nominal bore (For Shower)	Each	442	500.35	221,154.70
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	Each			
17.7.4	wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Each	138	1679.60	231,784.80
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 nillar cock	Each	138	1404.00	193,752.00
17.28	Providing & fixing PVC waste pipe for sink including PVC waste fitting Complete				-
17.28.2 17.28.2.1	Flexible Pipe 32mm Dia	Each	253	104.35	26,400.55
17.34	Providing and fixing toilet paper holder :			606.00	-
17.34.1	C.P. brass	Each	57	680.80	38,805.60

DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					
18.21	Providing and fixing uplasticised PVC connection pipe with brass				-
18.21.2 18.21.2.1	45 cm length 15 mm nominal bore	Each	431	85.15	36,699.65
					-
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:				
17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580 x 440 mm	Each	109	5781.35	630,167.15
	with integral type foot rests				_
18.65	Providing and fixing PTMT soap Dish Holder having length of	Each	101	96.75	9,771.75
	138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.				
	arrangements, weigning not less than 100 gms.				-
17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125	Each	63	146.25	9,213.75
	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.				
17.73	Providing and fixing PTMT towel rail complete with brackets fixed to				
17.73	wooden cleats with CP brass screws with concealed fittings				-
17.72.2	arrangement of approved quality and colour.	Б. 1		600.25	5 402 15
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	5,403.15
17.69	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.				
17.69.1	Waste coupling 31 mm dia of 79 mm length and 62mm breadth	Each	34	103.00	3,502.00
	weighing not less than 45 gms				
18.56	Providing and fixing PTMT pillar cock of approved quality and colour.			100.00	
18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	Each	34	180.80	6,147.20
18.64	Providing and fixing PTMT swivelling shower, 15 mm nominal bore,	Each	136	106.15	14,436.40
	weighing not less than 40 gms				
	Sanitary Installations work (Non-Scheduled Items)				
MR 4	Providing and fixing U-shaped stainless steel grab bar (for differntly	Each	5	5612.00	28,060.00
	abled person) of size 600mm wall mounted, movable (horizontally	Lucii		3012100	20,000.00
	and vertically) with necessary dash fastener etc. all complete. (Basic				
	rate of material shall not be less than Rs.3900 each)				
MR 5	Providing and fixing white vitreous china oval shape wash basin	Each	34	6298.00	214,132.00
	(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				
			1=0	1505.00	220.21
MR 6	Providing and fixing 600 x 450 mm beveled edge mirror of superior glass (of approved quality) fixed with stainless steel studs, complete	Each	178	1507.00	268,246.00
	with cutting, making holes, studs, all fittings, screws, washers and				
	making good the walls.				
MR 7	Providing & fixing stainless steel robe plate/pegs (hook) having three	Each	144	285.00	41,040.00
	pegs (hook) in one strip (weight shall not be less than 120 grams) of				
	superior quality with necessary scres etc. complete.				
MR 8	Providing and fixing C.P. brass swan neck foam flow pillar cock of				
	approved quality and conforming to IS standards. a) 15 mm nominal dia	Each	34	930.05	31,622.00
	a) 13 mm noniniai dia	EdCII	34	930.03	31,022.00
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 than 810 gms.				
	a) 15 mm nominal bore	Each	30	959.85	28,796.00
İ					

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
MR 10	Providing & fixing stainless steel butterfly robe pegs (hook) having three hooks of superior quality with necessary scres etc. complete.	Each	29	207.00	6,003.00
	Total of sub-head (16.0) (DSR) Total of sub-head (16.0) (Non DSR)				2,523,208.40 611,896.00
	Internal Drainage Installations (As per D.S.R.)				
18.58 18.58.1	Providing and fixing PTMT grating of approved quality and colour Circular type				
18.58.1.1	100 mm nominal dia	Each	197.00	33.20	6,540.40
18.58.1.2	125 mm nominal dia with 25mm waste hole.	Each	204.00	51.25	10,455.00
12.41	Providing & fixing on wall face unplasticised -Rigid PVC rain water pipes conforming to IS:13592 Type A included jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion. (i)Single socketed pipes.				
12.41.2	110 mm diameter	Metre	800.00	319.75	255,800.00
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.				
12.42.1.2 12.42.5.2	Coupler -110 mm diameter Bend -87.5 deg -110 mm diameter	Each Each	30.00 198.00	119.95 132.00	3,598.50 26,136.00
12.42.6.2		Each	30.00	115.95	3,478.50
12.43	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement: 4 coarse sand) and making good the wall etc. complete.				
12.43.2	110mm	Each	651.00	310.85	202,363.35
MR 11	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. alround 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 drawings and	Matra	1708 00	603.00	1.084.194.00
	110 mm dia (Wall Thickness - 3.2 to 3.8 mm) 75 mm dia (Wall Thickness - 3.2 to 3.8 mm)	Metre Metre	1798.00 190.00	603.00 483.00	1,084,194.00 91,770.00
MR 12	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 required.				
	110 mm inlet & 110 mm outlet	Each	188.00	235.00	44,180.00
MR 13	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 required.	Each	105.00	340.10	35,710.50
MR 14	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	94.00	177.40	16,675.60

Including   Incl	riding and fixing of uPVC Waste pipes 6 kg/cm2 (IS: 4985:2000) iding with all fittings e.g. couplings, tees, bends, reducers and wed adoptors jointing with solvent cement as per Manufacturer's ifications complete including cutting holes or chases in wall and ing good the same wherever required. (Waste pipe from fixtures). Im OD riding, fixing, testing and commissioning of uPVC cleanout plug forming to IS:14735 – 1999 complete with all fitting, accessories civil works.	Metre	216.00		
Internal	ading with all fittings e.g. couplings, tees, bends, reducers and wed adoptors jointing with solvent cement as per Manufacturer's ifications complete including cutting holes or chases in wall and ing good the same wherever required. (Waste pine from fixtures) and OD riding, fixing, testing and commissioning of uPVC cleanout plug forming to IS:14735 – 1999 complete with all fitting, accessories civil works.	Metre	216.00		
Internal	ading with all fittings e.g. couplings, tees, bends, reducers and wed adoptors jointing with solvent cement as per Manufacturer's ifications complete including cutting holes or chases in wall and ing good the same wherever required. (Waste pine from fixtures) and OD riding, fixing, testing and commissioning of uPVC cleanout plug forming to IS:14735 – 1999 complete with all fitting, accessories civil works.	Metre	216.00		
Screwed specific making 40 mm	wed adoptors jointing with solvent cement as per Manufacturer's ifications complete including cutting holes or chases in wall and ing good the same wherever required. (Waste pine from fixtures). In OD riding, fixing, testing and commissioning of uPVC cleanout plug forming to IS:14735 – 1999 complete with all fitting, accessories civil works.	Metre	216.00		
MR 16	ifications complete including cutting holes or chases in wall and ing good the same wherever required. (Waste pine from fixtures). In OD riding, fixing, testing and commissioning of uPVC cleanout plug forming to IS:14735 – 1999 complete with all fitting, accessories civil works.	Metre	216.00		
MR 16	ing good the same wherever required. (Waste nine from fixtures).  In OD  Inding, fixing, testing and commissioning of uPVC cleanout plug forming to IS:14735 – 1999 complete with all fitting, accessories civil works.	Metre	216.00	1	
MR 16 Providin conform and civil 110 mm  Total o Total o Total o Vater  18.7 Providin having CPVC 1 clamps with onner dire Internal 18.7.4 32 mm 18.7.5 40 mm 18.7.6 50 mm 18.8.8 Providin having tCPVC 1 clamps with onmaking the dire Concea 18.8.2 20 mm 18.8.3 25 mm 18.8.4 32 mm 18.10 Providin includin Internal 18.10.3 25 mm 18.10.4 32 mm 18.10.5 40 mm 18.10.6 50 mm 18.12.7 65 mm 18.12.8 80mm r 18.12.8 80mm r 18.38.4 32 mm 18.38.5 40	riding, fixing, testing and commissioning of uPVC cleanout plug forming to IS:14735 – 1999 complete with all fitting, accessories civil works.	Metre	214.00		
Total o   Tota	forming to IS:14735 – 1999 complete with all fitting, accessories civil works.		216.00	268.00	57,888.00
18.7 Providing the direction of the line relation o	civil works.				
Total o   Total o	mm dia				
18.7 Providing CPVC   clamps with on ner direct linternal 18.7.3   25 mm   18.7.5   40 mm   18.7.6   50 mm   18.8.1   25 mm   18.8.2   20 mm   18.8.3   25 mm   18.8.4   32 mm   18.8.4   32 mm   18.10.5   40 mm   18.12.8   80 mm   18.12.8   25 mm   18.13.3   25 mm   18.14.3   25 mm   18.15.4   32 mm   18.15.5   40 mm		Each		179.55	-
18.7 Providing CPVC   clamps with on ner direct linternal 18.7.3   25 mm   18.7.5   40 mm   18.7.6   50 mm   18.8.4   32 mm   18.8.4   32 mm   18.8.4   32 mm   18.8.4   32 mm   18.10.5   40 mm   18.10.6   50 mm   18.10.7   65 mm   18.10.6   50 mm   18.10.8   80 mm	al of sub-head (17.0) (DSR)				508,371.75
18.7 Providin having CPVC 1 clamps with on ner dire 1st.7.4 32 mm. 18.7.4 32 mm. 18.7.5 40 mm. 18.7.6 50 mm. 18.8 Providin having 1 CPVC 1 clamps with on making the dire. Concea. 18.8.2 20 mm. 18.8.3 25 mm. 18.8.4 32 mm. 18.10 Providin includin 1st.10.3 25 mm. 18.10.4 32 mm. 18.10.5 40 mm. 18.10.6 50 mm. 18.12.7 65 mm. 18.12.8 80mm.r 18.38 Painting two coa for new 18.38.3 25 mm. 18.38.4 32 mm. 18.38.4 32 mm. 18.38.5 40 mm.	al of sub-head (17.0) (Non DSR)				1,330,418.10
18.7 Providin having CPVC 1 clamps with on ner dire 18.7.4 32 mm.  18.7.4 32 mm.  18.7.5 40 mm.  18.7.6 50 mm.  18.8 Providin having 1 CPVC 1 clamps with on making the dire. Concea.  18.8.2 20 mm.  18.8.3 25 mm.  18.10 Providin includin 11.0.4 32 mm.  18.10.4 32 mm.  18.10.5 40 mm.  18.10.6 50 mm.  18.10.7 65 mm.  18.12.8 80mm.r  18.38 Painting two coafor new 18.38.3 25 mm.  18.38.4 32 mm.  18.38.4 32 mm.  18.38.5 40 mm.  18.38.5 40 mm.					
having CPVC 1 clamps with on ner dire Internal 18.7.3 25 mm 18.7.4 32 mm 18.7.5 40 mm 18.7.6 50 mm 18.8 Providin having to CPVC 1 clamps with one making the director of the content of th	ter Supply Installations (As per D.S.R.)				
CPVC   clamps with on ner dire Internal   18.7.3   25 mm   18.7.4   32 mm   18.7.5   40 mm   18.7.6   50 mm   18.8   Providin having to CPVC   clamps with on making the direction of the content of the	riding and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes				
clamps with on ner dire Internal 18.7.3 25 mm 18.7.4 32 mm 18.7.5 40 mm 18.7.6 50 mm 18.8 Providing the direction of the control of the contr	ng thermal stability for hot and cold water supply including all				
with on ner dire Internal 18.7.3 25 mm 18.7.4 32 mm 18.7.5 40 mm 18.7.6 50 mm 18.8.8 Providin having the direction of the content of the cont	C plain and brass threaded fittings including fixing the pipe with				
ner direction   18.7.3   25 mm   18.7.4   32 mm   18.7.5   40 mm   18.7.6   50 mm   18.7.6   50 mm   18.7.6   50 mm   18.8.2   20 mm   18.8.3   25 mm   18.8.4   32 mm   18.10   Providing including including laternal   18.10.3   25 mm   18.10.4   32 mm   18.10.5   40 mm   18.10.6   50 mm   18.12.7   65 mm   18.12.8   80 mm   18.12.8   80 mm   18.38.4   32 mm   18.38.5   40 mm   18.38.5	ups at 1.00 m spacing, this includes jointing of pipes and fittings one step CPVC solvent cement and testing of joints complete as				
18.7.3 25 mm  18.7.4 32 mm  18.7.5 40 mm  18.7.6 50 mm  18.8 Providin having to CPVC to clamps with one making the direction of the content o	direction of engineer in charge.				
18.7.4 32 mm  18.7.5 40 mm  18.7.6 50 mm  18.8 Providin having the direction of the content of t	rnal work -Exposed on Wall	Materia	492.00	408.55	196,921.10
18.7.5 40 mm  18.7.6 50 mm  18.8 Providin having the direction of the content of	nm nominal dia pipes nm nominal dia pipes	Metre Metre	482.00 133.00	500.95	66,626.35
18.8 Providin having to CPVC 1 clamps with one making the director Concea.  18.8.2 20 mm.  18.8.3 25 mm.  18.8.4 32 mm.  18.10 Providing including Internal.  18.10.3 25 mm.  18.10.4 32 mm.  18.10.5 40 mm.  18.10.6 50 mm.  18.12.7 65 mm.  18.12.8 80mm r.  18.38 Painting two coand for new two coand fo	nm nominal dia pipes	Metre	63.00	674.35	42,484.05
having to CPVC 1 clamps with on-making the director Concea 18.8.2 20 mm.  18.8.3 25 mm.  18.10 Providing including the line and the line to concea 18.8.4 32 mm.  18.10 Providing the line and the line	nm nominal dia pipes	Metre		927.00	-
CPVC 1 clamps with on making the direct Conceat 18.8.2 20 mm.  18.8.3 25 mm.  18.8.4 32 mm.  18.10 Providing including line line line line line line line line	riding and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes				
Clamps   with one making the direct	ng the thermal stability for hot and cold water supply including all C plain and brass threaded fittings including fixing the pipe with				
making the direct Conceat 18.8.2 20 mm 18.8.3 25 mm 18.8.4 32 mm 18.10. Providing including Internal 18.10.3 25 mm 18.10.4 32 mm 18.10.5 40 mm 18.12.7 65 mm 18.12.8 80mm r 18.12.8 80mm r 18.38.4 32 mm 18.38.4 32 mm 18.38.4 32 mm 18.38.5 40 mm 18.18.7 Providing quality of quality of the concease of the	ups at 1.00 m spacing. This includes jointing of pipes and fittings				
18.8.2 20 mm  18.8.3 25 mm  18.8.4 32 mm  18.10 Providing including Internal  18.10.3 25 mm  18.10.4 32 mm  18.10.5 40 mm  18.10.6 50 mm  18.12.7 65 mm  18.12.8 80mm r  18.38 Painting two coafor new  18.38.3 25 mm  18.38.4 32 mm  18.38.5 40 mm  18.38.5 40 mm  18.17 Providing quality of quality of page 18.38.5 40 mm	one step CPVC solvent cement and the cost of cutting chases and				
Concea   18.8.2   20 mm   18.8.3   25 mm   18.8.4   32 mm   18.10   Providing including line luding lu	ing good the wall same including testing of joints complete as per				
18.8.2 20 mm 18.8.3 25 mm 18.8.4 32 mm  18.10 Providing including Internal 18.10.3 25 mm 18.10.4 32 mm 18.10.5 40 mm 18.10.6 50 mm 18.12.7 65 mm 18.12.8 80 mm r  18.38 Painting two coars for new 18.38.3 25 mm 18.38.4 32 mm 18.38.5 40 mm  18.17 Providing quality of quality of the second se	lirection of engineer incharge cealed work including cutting chases and making good the wall				
18.8.4 32 mm  18.10 Providing including Internal 18.10.3 25 mm  18.10.4 32 mm  18.10.5 40 mm  18.10.6 50 mm  18.12.7 65 mm  18.12.8 80mm r  18.38 Painting two coard for new 18.38.3 25 mm  18.38.4 32 mm  18.38.5 40 mm  18.17 Providing quality of quality of the providing quality of the provided for the provided f	nm nominal dia pipes	Metre	968.00	512.40	496,003.20
18.10 Providing including later of the later	nm nominal dia pipes	Metre	564.00	624.70	352,330.80
Includin   Internal	nm nominal dia pipes	Metre	251.00	711.40	178,561.40
18.10.3 25 mm 18.10.4 32 mm 18.10.5 40 mm 18.10.6 50 mm 18.12.7 65 mm 18.12.8 80mm r 18.38 Painting two coa for new 18.38.4 32 mm 18.38.5 40 mm	riding and fixing G.I. pipes complete with GI fittings and clamps ading cutting and making good the walls etc. (internal work)				
18.10.4 32 mm 18.10.5 40 mm 18.10.6 50 mm 18.12.7 65 mm 18.12.8 80mm r  18.38 Painting two coafor new 18.38.3 25 mm 18.38.4 32 mm 18.38.5 40 mm 18.38.5 40 mm 18.38.5 40 mm 18.38.7 Providing quality of quality of the state of t	rnal work - Exposed on wall	Materia	207.00	401.20	101 107 20
18.10.5 40 mm 18.10.6 50 mm 18.12.7 65 mm 18.12.8 80mm r  18.38 Painting two coafor new 18.38.3 25 mm 18.38.4 32 mm 18.38.5 40 mm  18.17 Providing quality of	nm dia, nominal bore nm dia, nominal bore	Metre Metre	206.00 164.00	491.20 563.55	101,187.20 92,422.20
18.12.7 65 mm 18.12.8 80mm r 18.38 Painting two coa for new 18.38.3 25 mm 18.38.4 32 mm 18.38.5 40 mm	nm dia, nominal bore	Metre	187.00	725.15	135,603.05
18.38 Painting two coa for new 18.38.3 25 mm 18.38.4 32 mm 18.38.5 40 mm 18.17 Providing quality (quality (1.5))	nm dia, nominal bore	Metre		893.20	-
18.38 Painting two coa for new 18.38.3 25 mm 18.38.4 32 mm 18.38.5 40 mm  18.17 Providing quality (	nm dia, nominal bore m nominal bore	Metre Metre	9.00	768.60 919.10	6,917.40
two coa for new 18.38.3 25 mm 18.38.4 32 mm 18.38.5 40 mm	iii iioiiiiiai oole	Wictic		919.10	
for new 18.38.3 25 mm 18.38.4 32 mm 18.38.5 40 mm 18.17 Providing	ting G.I. pipes and fittings with synthetic enamel white paint with				
18.38.3 25 mm 18.38.4 32 mm 18.38.5 40 mm 18.17 Providinguality	coats over a ready mixed priming coat, both of approved quality				
18.38.4 32 mm 18.38.5 40 mm 18.17 Providing quality	nm dia, nominal bore	Metre	206.00	25.60	
18.17 Providii quality (	ım dia, nominal bore	Metre	164.00	30.70	
quality	nm dia, nominal bore	Metre	187.00	36.05	
quality					
	riding and fixing gun metal gate valve with CI wheel of approved				
IV 1 / 1 175	ity (screwed ends)	E 1	15.00	522.25	# 00# **
	41	Each	15.00	532.35	7,985.25
	m dia, nominal bore	Each Each	5.00	589.90 707.30	2,949.50
	nm dia, nominal bore	Each		878.25	
	am dia, nominal bore am dia, nominal bore am dia, nominal bore				
18.19.3.1 25 nom	am dia, nominal bore am dia, nominal bore am dia, nominal bore am dia, nominal bore riding and fixing gun metal non- return valve of approved quality			1	
18.19.4.1 32 nom	am dia, nominal bore am dia, nominal bore am dia, nominal bore am dia, nominal bore ariding and fixing gun metal non- return valve of approved quality awed end)	Each	15.00	815.05	12,225.75
18.19.6.1 40 nom	am dia, nominal bore am dia, nominal bore am dia, nominal bore am dia, nominal bore riding and fixing gun metal non- return valve of approved quality swed end) ominal bore	Each Each	15.00 5.00	815.05 1173.65	12,225.75 5,868.25

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
18.16 18.16.1	Providing and fixing brass stop cock of approved quality  15mm nominal bore	Each	18.00	303.85	5,469.30
18.16.2	20mm nominal bore	Each	38.00	327.95	12,462.10
16.10.2	2011111 Homiliai Oole	Each	38.00	321.93	12,402.10
DSR E &	Supplying, fixing, testing and commissioning of following valves,				
M 2022 / 16.11	gauges and strainers for condenser water circulation as per specifications.				
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 specified				
16.11.1.6	65 nominal bore	Each	5.00	3821.00	19,105.00
16.11.1.5	80 nominal bore	Each	6.00	4055.00	24,330.00
16.11.1.4	100 nominal bore	Each	3.00	5412.00	16,236.00
18.18	Providing and fixing ball valve (brass) of approved quality, High or				
18.18.3	low pressure, with plastic floats complete 25 mm nominal bore	Each	18.00	399.15	7,184.70
	Water Supply Internal Work (Non Scheduled Items)				
MR 17	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)				
	15 mm dia nominal bore	Each		228.00	-
10.2	20 mm dia nominal bore	Each		276.15	-
10.3	25 mm dia nominal bore	Each	63.00	377.40	23,776.20
	Total of sub-head (18.0) (DSR)				1,782,872.60
	Total of sub-head (18.0) (Non DSR)				23,776.20
	EVTEDNAL CEWEDACE CYCTEM				-
	EXTERNAL SEWERAGE SYSTEM				<u>-</u>
2.10	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:				
2.10.1.2	All kinds of soils  Pipes, cables etc. exceeding 80 mm dia. but not	Metre	594.00	293.40	174,279.60
2.10.1.2	exceeding 300 mm dia	Wietre	394.00	293.40	174,279.00
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				
19.1.2	fine sand) including testing of joints etc. complete: 150 mm diameter	Metre	416.00	591.40	246,022.40
19.1.4	250 mm diameter	Metre	178.00	1293.90	230,314.20
					-
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:				
19.2.2	150 mm diameter S.W. pipe	Metre	208.00	1095.15	227,791.20
19.2.4	250 mm diameter S.W. pipe	Metre	89.00	1476.35	131,395.15
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				
10.2.2	of S.W. pipes including bed concrete as per standard design:		200.00	600.77	
19.3.2 19.3.4	150 mm dia S.W pipe 250 mm dia S.W pipe	Metre Metre	208.00 89.00	689.75 943.90	143,468.00 84,007.10
17.3.4	250 Hill dia 5. W pipe	ivicue	67.00	273.70	04,007.10

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					
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 afloating coat of neat cement complete as				
10.7.1	ner standard design .				
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):				
19.7.1.1	With common burnt clay F.P.S. (non modular) bricks of class	each	60.00	11530.20	691,812.00
17.7.1.1	designation 7.5	Cacii	00.00	11330.20	071,012.00
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)	each	17.00	24193.70	411,292.90
	bricks of class designation 7.5				
19.8	Extra for depth for manhole with F.P.S. bricks				<u> </u>
19.8.1	Size 90 X 80 cm				-
19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class	Metre	5.00	8127.45	40,637.25
	designation 7.5				
19.8.2	Size 120x90 cm				
19.8.2.1	With common burnt clay F.P.S. (non modular) bricks of class	Metre	2.00	9744.25	19,488.50
	designation 7.5				
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				
19.9.1	neat cement, all complete as per standard design.  0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade				
	designation) 560 mm internal diameter conforming to I.S. 12592, total				
	weight of cover and frame to be not less than 182 kg., fixed in cement				
	concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20				
	mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external				
	surface shall be paid for separately):				
19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class	each	2.00	11705.55	23,411.10
	designation 7.5				-
19.10	Extra depth for circular type manhole 0.91m internal dia (at bottom)				
10 10 1	beyond 0.91 m to 1.67 m  With common burnt clay F.P.S. (non modular) bricks of class	Matua	0.20	6006.00	2,006,04
19.10.1	designation 7.5	Metre	0.30	6986.80	2,096.04
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				
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)				

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
19.11.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each		22771.05	-
19.12	Extra depth for circular type manhole 1.22 m internal dia (at bottom)				
19.12.1	beyond 1.68 m to 2.29 m: With common burnt clay F.P.S. (non modular) bricks of class	Metre		9068.35	
17.12.1	designation 7.5	Wietre		7000.55	
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	each	95.00	469.00	44,555.00
19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 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				-
19.4.3.1	cover to be not less than 4.50 kg and frame to be not less than 2.70kg 180x150 mm size P type With FPS bricks	each	42.00	2517.95	105,753.90
19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and				-
19.19.4	frame of required shape and approved quality EHD-35				
19.19.4.1	Circular shape 560 mm internal dia	Each	18.00	1859.5	33,471.00
19.21.1	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement cincrete 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.	each	3.00	683.70	2,051.10
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				
19.32.1	diameter, 1.8 m long complete as per standard design.  With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	14.00	26254.80	367,567.20
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	1.00	2822.15	2,822.15
	Total of sub-head (19.0) (DSR)				2,611,846.44
	External Storm Water Drainage System				
2.10	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.  All kinds of soils				
2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	417.35	293.40	122,450.49
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 lead of 50 m.  Ordinary rock				

2.13.1.2   Pipes, cabbes etc. exceeding 50 mm dis but not exceeding 500 mm dis	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
19.1.1.3   Proc. cinhoc seconding 300 mm dia but not exceeding 600 mm dia	2021					
19.1.1.3   Proc. cinhoc seconding 300 mm dia but not exceeding 600 mm dia	21212			20.00	025.20	16.506.00
19.6   Providing and laying non-pressure NP2 class (light daty) RCC pipes with collars jointed with stiff mixture of cement motar in the proportion of 12 cf venue; 2 face sand) including testing of joints						
with collars jointed with stiff mixture of cement mortar in the proportion of 12 (1 cement 2: 16m sand) including testing of joints set, complete, for storm drinneed 1.2 (1 cement 2: 16m sand) including testing of joints set, complete, for storm drinneed 1.2 (1 cement 2: 100 cm) (1	2.13.1.3	. /	Metre	20.00	949.00	18,992.00
proportion of 12 (1 cerems : 2 fine sand) including testing of joints	19.6					
Second   S		,				
190.6.2   150 mm dia RCC pipe						
19.6.   400 mm dia RCC pipe	19.6.2		Metre	150.00	493.10	73,965.00
19.5   450 mm dia RCC pipe						81,115.00
19.3   Providing and laying cement concrete 1:5:10 (1 cement : 5 course sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of several stage of the providing and laying cement concrete 1:5:10 (1 cement : 5 course sand : 10 graded stone aggregate 40 mm nominal size) up to the providing and laying cement concrete 1:5:10 (1 cement : 5 course sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pips   Mere						
sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W., pipes including bed concrete as per standard design:  19.3.2   150 mm diameter S.W. pipe   Metre   75.00   689.75   51,731,25   19.3.3   300 mm diameter S.W. pipe   Metre   00.00   1089.10   108.910.00   19.3.5   300 mm diameter S.W. pipe   Metre   100.00   1089.10   108.910.00   19.2.1   10 graded stone aggregate 40 mm nominal size) all-round S.W. ribes including bed concrete as per standard design:   19.2.2   150 mm diameter S.W. pipe   Metre   75.00   1095.15   82,136.25   19.2.4   250 mm diameter S.W. pipe   Metre   75.00   1095.15   82,136.25   19.2.4   250 mm diameter S.W. pipe   Metre   50.00   1476.35   73,817.50   19.2.7   Contracting brick many road gally chamber 50x45x60 cm with bricks in cement mortur 1-14 (1 cement : 4 course sand) including 500x45 mm pro-east R.C.C. horizontal grating with france complete as per standard clasim.   19.2.1   Windows of the sand proportion of the sand pr	19.6.5	450 mm dia RCC pipe	Metre	25.00	1481.55	37,038.75
19.3.2   150 mm diameter S.W. pipe	19.3	sand: 10 graded stone aggregate 40 mm nominal size) up to haunches				
193.5.   200 mm diameter S.W. pipe	19.3.2		Metre	75.00	689.75	51,731,25
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. pips including bed concrete as per standard design :  19.2.4 250 mm diameter S.W. pipe  19.2.7 Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 50x45 mm pre-cast R.C.C. brotzonial garding with frame complete as per standard design :  19.2.7 When common burnt clay F.P.S. (non modular) bricks of class designation 7.5  19.19 Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required daine and approved quality  19.19.1 D-2.5  19.19.1 Rectification 1.5  19.19.4 EID-35  19.19.4 EID-35  19.19.4 Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sam to window frames etc. including 62x19 mm beading of second class teak—wood and priming coat with anoroxed steel crimer all coundlete.  12.4.1 Providing & fixing on wall face unplasticised -Rigid PVC rain water pipes conforming to IS:3582 Leaving 10 mm gap for thermal expansion.  12.4.1.2 Providing & fixing on wall face unplasticised of required dain for easing/ strainer pipe, by suitable method prescribed in IS:2800Cpart 1), including collecting sample from different strata , preparing and submitting strata chard bore log, including here & running charges of all equipments, took, plants & machineries required for the job, all complete as per direction of farmed from size direction of from from from from the level and provided dain conforming to IS:1382 leaving 10 mm gap for thermal expansion.  23.1.1 Boring/drilling bore well of required dain for easing/ strainer pipe, by suitable method prescribed in IS:2800Cpart 1), including collecting sample from different strata , preparing and submitting strata chard bore log, including hire & running charges of all equipments, took, plants & machineries required for the job, all complete as per direction of famineries required for the poly all co		250 mm diameter S.W. pipe				47,195.00
sand: 10 graded stone aggregate 40 mm nominal size) all-round 5.W. pines includine bed concrete as per standard design:  19.2.2 150 mm diameter 8.W. pipe  19.2.4 250 mm diameter 8.W. pipe  19.2.7 Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1.4 (1 cement: 4 coarse sand) including 500x45 0m pre-cast R.C.C. horizontal grating with frame complete as per standard design:  19.2.7 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5  19.19 Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality 19.19.1 I.D-2.5  19.19.1 LD-2.5  19.19.1.1 Ernaglust shape 600x450mm internal dimensions  Each 6.00 1255.25 7.531.50  19.19.4 EHD-35  19.19.4.1 Circular shape 560 mm internal dia  Providing and fixing hard drawn steel wire fishric 75x25 mm mesh of weight not less than 7.75 Kg per sgm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with anortowed steel britmer all complete.  12.4.1 Providing & fixing on wall face unplasticised -Rigid PVC rain water pipes conforming to 18.5382 leaving 10 mm gap for thermal expansion.  (ISingle socketed pipes.  12.4.12 Ill om diameter  Metre 60.00 319.75  19.185.00  10.578.00  319.75  32.3.1.1 All types of Soil  32.3.1.1 All types of Soil  32.3.1.1 All types of Soil  32.3.2.1 Indiameter and fixing in vertical position in bore well, unplasticized PVC. medium well casing (CM) pipe of required dia, conforming to 18.518.8, including required hire & labour charges, fitting & accessories, all complete, for all depths, as per direction of Ennineer-in-charge.  23.3.2 Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC. medium well exercen (RMS) pipes with ribs, conforming to 18.5181, including cruited hire, for all depths, as per direction of Ennineer-in-charge.	19.3.5	300 mm diameter S.W. pipe	Metre	100.00	1089.10	108,910.00
19.2.4   250 mm diameter S.W. pipe	19.2	sand: 10 graded stone aggregate 40 mm nominal size) all-round S.W.				
19.2.4   250 mm diameter S.W. pipe   Metre   50.00   1476.35   73,817.50	19.2.2		Metre	75.00	1095.15	82,136,25
bricks in cement mortar 14 (1 cement: 4 coanse sand) including 500x450 mm pre-east R.C.C. horizontal grating with frame complete se per standard design:  19.27.1 With common burnt clay F.P.S. (non modular) bricks of class ear standard designation 7.5 class designa						73,817.50
1927.1   With common burnt clay F.P.S. (non modular) bricks of class designation 7.5   27,028.25	19.27	bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete				
frame of required shape and approved quality  19.191. LD-2.5  19.191. Pc LD-2.5  19.191. EHD-35  19.194.1 Circular shape 560 mm internal dimensions  Each 6.00 1255.25 7,531.50  19.194.1 Circular shape 560 mm internal dimensions  Each 6.00 1882.20 11,293.20  9.50 Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.73 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.  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:3582 leaving 10 mm gap for thermal expansion.  (Gisinele socketed pipes.  12.41.2 Illo mm diameter  Metre 60.00 319.75 19,185.00  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 Envineration-charce unto 90m denth below soround level  23.1.1 All types of Soil  23.1.1 All types of Soil  23.2 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 Envineer-in-charges.  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 Envineer-in-charges.  Each 6.00 1882.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20 11,293.20	19.27.1	With common burnt clay F.P.S. (non modular) bricks of	Each	5.00	5405.65	27,028.25
19.19.1.1   Rectangular shape 600x450mm internal dimensions   Each   6.00   1255.25   7,531.50     19.19.4   EHD-35   19.19.4.1   Circular shape 560 mm internal dia   Each   6.00   1882.20   11,293.20     9.50   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   1484.70   41,957.62     12.41   Providing & fixing on wall face unplasticised -Rigid PVC rain water pipes conforming to 18:13592 Tyape A included jointing with seal ring conforming to 18:5382 leaving 10 mm gap for thermal expansion.   GiSingle socketed pipes.   GiSingle socketed pipes.   Metre   60.00   319.75   19,185.00     12.41.2   Ill mm diameter   Metre   60.00   319.75   19,185.00     12.41.3   Baring/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 charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-sin-charge.   Gistance-sin-charge.   Gista		frame of required shape and approved quality				
19.19.4   EHD-35			Each	6.00	1255 25	7 521 50
19.19.4.1 Circular shape 560 mm internal dia   Each   6.00   1882.20   11,293.20	19.19.1.1	Rectangular shape 000x450mm internal dimensions	Each	0.00	1233.23	7,331.30
9.50 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.  12.41 Providing & fixing on wall face unplasticised -Rigid PVC rain water pipes conforming to 1S:13592 Tyape A included jointing with seal ring conforning to 1S:5382 leaving 10 mm gap for thermal expansion.  (i)Single socketed pipes.  12.41.2 Ill om m diameter Metre 60.00 319.75 19,185.00  23.11 Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in 1S:2800(Part 1), including collecting sample from different strata, preparing and submitting strata chard bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Finnineer-in-charge unto 90m denth below ground level  23.1.1 1300 mm dia Metre 180.00 592.10 106,578.00  23.3.2 Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC. medium well casing (CM) pipe of required dia, conforming to 1S: 12818, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Finnineer-in-charge.  23.4 Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC. medium well screen(RMS) pipes with ribs, conforming to 1S: 12818, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Finnineer-in-charge.  23.4 Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC. medium well screen(RMS) pipes with ribs, conforming to 1S: 12818, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Finnineer-in-charge.	19.19.4					
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.  12.41 Providing & fixing on wall face unplasticised -Rigid PVC rain water pipes conforming to 1S:13592 Tyape A included jointing with seal ring conforming to 1S:5382 leaving 10 mm gap for thermal expansion. (i)Single socketed pipes.  12.41.2 110 mm diameter Metre 60.00 319.75 19,185.00  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 Envincer-in-charge unto 90m denth below ground level  23.1.1 All types of Soil  23.1.1 300 mm dia Metre 180.00 592.10 106,578.00  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.  23.3.2 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.	19.19.4.1	Circular shape 560 mm internal dia	Each	6.00	1882.20	11,293.20
pipes conforming to IS:13592 Tyape A included jointing with seal ring conforming to IS:3882 leaving 10 mm gap for thermal expansion.  (i)Single socketed pipes.  12.41.2 110 mm diameter Metre 60.00 319.75 19,185.00  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 unto 90m denth below ground level  23.1.1 All types of Soil  23.1.1.1 300 mm dia Metre 180.00 592.10 106,578.00  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.  23.3.2 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.  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.	9.50	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	Sqm	28.26	1484.70	41,957.62
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 unto 90m denth below ground level  23.1.1 All types of Soil  23.1.1 300 mm dia Metre 180.00 592.10 106,578.00  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.  23.3.2 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.		pipes conforming to IS:13592 Tyape A included jointing with seal ring conforning to IS:5382 leaving 10 mm gap for thermal expansion. (i)Single socketed pipes.				
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 unto 90m denth below ground level  23.1.1 All types of Soil  23.1.1.1 300 mm dia Metre 180.00 592.10 106,578.00  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.  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.	12.41.2	110 mm diameter	Metre	60.00	319.75	19,185.00
23.1.1.1 300 mm dia Metre 180.00 592.10 106,578.00  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.  23.3.2 150mm nominal size dia Metre 100.00 668.50 66,850.00  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.		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, unto 90m depth below ground level				
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.  23.3.2 150mm nominal size dia Metre 100.00 668.50 66,850.00  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.	H——		Metre	180.00	592.10	106 578 00
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.  23.3.2 150mm nominal size dia  Metre 100.00 668.50 66,850.00  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.	23.1.1.1			100.00	372.10	100,576.00
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.	23.3	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				
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.	23.3.2		Metre	100.00	668.50	66,850.00
23.4.2   150 mm nominal size dia   Metre   80.00   681.90   54,552.00		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.				
	23.4.2	150 mm nominal size dia	Metre	80.00	681.90	54,552.00

DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					
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	4.00	1302.30	5,209.20
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-charge.	cum	4.00	1309.00	5,236.00
23.7	Supplying, filling, spreading & levelling coarse sand of size range 1.5mm to 2mm, in recharge pit, in required thickness over gravel laver, for all leads & lifts, all complete as per direction of Engineer-in-	cum	4.00	1309.00	5,236.00
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 of Engineer-in- charge.	Each	300.00	1213.25	363,975.00
23.15	Providing and fixing <b>Bail plug/ Bottom</b> plug of required dia to the bottom of pipe assembly of tube well as per IS:2800 (part I).				
23.15.1	150 mm dia	each	6.00	228.25	1,369.50
Derived	Constructing brick masonry open surface drain with bricks of class				·
from DSR 2019	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 standard design:				
	a) 25 cm drain 30 cm average depth, With F.P.S. bricks	each	300.00	1452.25	435,675.00
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	10.00	368.75	3,687.50
	Total of sub-head (20.0) (DSR)				1,959,426.01
	EXTERNAL WATER SUPPLY SYSTEM AND PUMPS				
	DISTRIBUTION NETWORK FOR FRESH WATER SUPPLY				
18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.				
	external works				
18.12.3	25mm nominal bore	Metre	146.00	417.95	61,020.70
18.12.4 18.12.5	32mm nominal bore 40mm nominal bore	Metre	253.00 218.00	457.65 558.35	115,785.45 121,720.30
18.12.6	50mm nominal bore	Metre Metre	77.00	654.20	50,373.40
18.12.7	65mm nominal bore	Metre	71.00	768.60	54,570.60
18.12.8	80mm nominal bore	Metre	276.00	919.10	253,671.60
18.40	Painting GI pipes and fittings with two coats of anti corrosive bitumastic paint of approved quality				
18.40.3	25 mm dia, nominal bore	Metre	146.00	15.25	2,226.50
18.40.4	32 mm dia, nominal bore	Metre	253.00	18.40	4,655.20
18.40.5 18.40.6	40mm nominal bore 50 mm dia, nominal bore	Metre Metre	218.00 77.00	20.95 25.25	4,567.10 1,944.25
18.40.7	65 mm dia, nominal bore	Metre	71.00	31.30	2,222.30
	80mm nominal bore	Metre	276.00	36.40	10,046.40
18.40.8	1			+	
18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): external works				
		Each	8.00	532.35	4,258.80
18.17 18.17.1 18.17.2	quality (screwed end): external works 25mm nominal bore 32 mm dia, nominal bore	Each	1.00	589.90	589.90
18.17 18.17.1 18.17.2 18.17.3	quality (screwed end): external works 25mm nominal bore 32 mm dia, nominal bore 40mm nominal bore	Each Metre	1.00 5.00	589.90 707.30	589.90 3,536.50
18.17 18.17.1 18.17.2 18.17.3 18.17.4	quality (screwed end): external works 25mm nominal bore 32 mm dia, nominal bore 40mm nominal bore 50mm nominal bore	Each Metre Each	1.00 5.00 2.00	589.90 707.30 878.25	589.90 3,536.50 1,756.50
18.17 18.17.1 18.17.2 18.17.3	quality (screwed end): external works 25mm nominal bore 32 mm dia, nominal bore 40mm nominal bore	Each Metre	1.00 5.00	589.90 707.30	589.90 3,536.50

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					
18.41	Providing and filling sand of grading zone V or coarser grade all- round the G.I. pipes in external work.				
18.41.3	25mm dia pipe	Metre	146.00	164.10	23,958.60
18.41.4	32mm dia pipe	Metre	253.00	168.35	42,592.55
18.41.5	40mm dia	Metre	218.00	170.50	37,169.00
18.41.6 18.41.7	50mm dia pipe 65mm dia pipe	Metre Metre	77.00 71.00	176.90 279.20	13,621.30 19,823.20
18.41.8	80mm dia pipe	Metre	276.00	287.70	79,405.20
18.59	Providing and fixing C.I. double acting air valve of approved quality	1110110	270.00	207770	72,100.20
	with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately):				
18.59.1	50 mm dia	Each	1.00	5171.75	5,171.75
18.59.2	80 mm dia	Each	1.00	6255.45	6,255.45
18.59.3	100 mm dia	Each		8214.10	-
18.31.1	Providing & Fixing C.I.sluice valve(with cap) complete with bolts,nuts,rubber insertions etc.(the tail pieces if required will be paid separately)				
18.31.1.1	<del>  '                                   </del>	Each	1.00	4097.90	4,097.90
18.32	Constructing masonry chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement:4 coarce sand) for stop cock with C.I. surface box 100x100x75mm (inside) with hinged cover fixed in reinforced ceemnt concrete slab 1:1.5:3 mix (1 cement: 1.5 corase sand: 3 graded stone aggregate 20mm nominal size) including 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 mortor 1:3 (1 cement : 3 coarse sand) 12 mm				
10.22.1	thick finished with a floating coat of neat coment complete as ner	T1.	15.00	1000 20	27.004.50
18.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	15.00	1800.30	27,004.50
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 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 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-				
18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	5.00	9753.05	48,765.25
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 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design:				
18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	1.00	16939.75	16,939.75
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. complete:				
18.13.2	50 to 80 mm nominal bore	Item		1513.65	-
DSR E & M 2022/ 16.11.1	BUTTERFLY VALVE (MANUAL) with C I body SS disc nitrile sheet & O - ring & PN 16 pressure rating as specified.				
16.11.1.6		Each		3821.00	
16.11.1.5	80 nominal bore	Each	2.00	4055.00	8,110.00
DSR E & M 2022/ 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.				

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2021					
16.11.2.2	150 nominal bore	Each		7899.00	-
	100 nominal bore	Each	1.00	5094.00	5,094.00
16.11.2.5	80 nominal bore	Each	2.00	3477.00	6,954.00
DSR E &	Providing and fixing GI pipes medium class conforming to IS 1239				
M 2022 /	with GI fittings including cutting hole chase painted with primer, two				
14.13 14.13.3	coats of enamel paints etc 100 mm dia, NB	Metre	5.00	1806.00	9,030.00
14.13.4	150 mm dia, NB	Metre	5.00	2740.00	13,700.00
	Total of sub-head (21.0) (DSR)				1,070,302.15
					1,070,302.13
	Bore Well Installations (As per D.S.R)				
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 unto 90 metre denth below ground level				
23.1.1	All types of soil		50.00	502.10	20.605.00
23.1.1.1	300 mm dia Rocky strata including Boulders	metre	50.00	592.10	29,605.00
23.1.2.1	300 mm dia	metre	15.00	1416.45	21,246.75
23.3	Supplying, assembling, lowering and fixing in vertical position in bore	Meter			
	well, unplasticized PVC medium well casing (CM) pipe of required				
	dia, conforming to IS: 12818, including required hire and labour				
	charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
23.3.3	200mm nominal dia	Meter	40.00	951.95	38,078.00
22.4					
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				
22.4.2	Engineer-in-charge.		20.00	1000.25	21.095.00
23.4.3	200 mm nominal size dia	metre	20.00	1099.25	21,985.00
23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5	Cum	6	1309.00	7,854.00
	mm to 2 mm in recharge pit, in required thickness over gravel layer,				
	for all leads & lifts, all complete as per direction of Engineer -incharge.				
23.8	Gravel packing in tubewell construction in accordance with IS: 4097,	cum	4.00	1479.25	5,917.00
	including providing gravel fine/ medium/ coarse, in required grading				
	& sizes as per actual requirement, all complete as per direction of				
	Engineer-in-charge.				
22.12	D 1		26.00	016.00	22.004.00
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	hour	36.00	916.80	33,004.80
	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 ner requirement and direction of Engineer-in-charge				
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				
23.13.3	as per requirement, all complete for borewell of: 200 mm nominal size dia	Each	1.00	280.95	280.95
					200.93
23.14	Providing and fixing M.S. clamp of required dia to the top of casing/				
	housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.				
23.14.3	200 mm clamp	Each	2.00	1827.00	3,654.00
23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the				
23.13	bottom of pipe assembly of tubewell as per IS:2800 (part I).				
23.15.3	200 mm dia	Each	1.00	308.50	308.50

DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
	Total of sub-head (22.0) (DSR)				161,934.00
	1	ī			
<b> </b>					

Name o	of work: C	Construction of Eklavya Model resid	ential	school (EN	MRS) Aalo, Di	istrict- West
S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs
		****Electrical v	VOP	ke***	<b>*</b>	
	1		VUI	<u>IV9</u>		
		FIRE FIGHTING WORKS				
23.0	DSR-2022	PIPING & VALVES				
23.01	18.7	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges ,tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required:				
	18.7.1	25 mm dia.	Metre	18.00	744.00	13,392
	18.7.5	65 mm dia.	Metre	60.00	1,614.00	96,840
	18.7.6	80 mm dia.	Metre	170.00	1,885.00	320,450
	7.7	100mm dia	Metre	45.00	2,550.00	114,750
23.02	14	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS:5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required:				
	14.5	80mm dia	Nos	3.00	7,691.00	23,07
23.03	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):				
	18.17.1	25 mm dia.	Nos	18.00	532.35	9,582
23.04	11	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required:				
	11.5	100 mm dia.	Nos	6.00	6,667.00	40,00
23.05	15	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3				,
	15.2	mm dia holes with stainless steel flange.  100mm dia	Each	3.00	6,664.00	19,992
	10.2			5.00	0,001.00	1,,,,,
23.06	MR 1	Providing and fixing 150 mm dial diameter size Pressure gauge (0-15 Kg/Cm2) complete with shut off valve duly calibrated before installation complete as required & as per enclosed specification.	Nos	3.00	682.00	2,040
		Total of sub-head (23.0) (DSR)  Total of sub-head (23.0) (NON DSR)				638,08 2,04

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
24.01	18.17	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipmets on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.				
	17.1	30m	Nos	18.00	8,675.00	156,150.00
		Total of sub-head (24.0) (DSR)				156,150.00
25.0		FIRE EXTINGUISHERS & MISC. ITEMS				
25.01	MR	Providing and fixing Carbon-di-oxide fire extinguishers consisting of welded M.S cylindrical body, squeeze lever discharge valve fitted with internal discharge tube, 30cms long high pressure discharge hose, discharge nozzle, suspension bracket, confirming to IS: 15683 finished externally with red enamel paint and fixed to wall with brackets with rawl plug/dash fasteners complete with internal charge. Capacity 4.5 kg. ISI Marked.(Contractor should submit test certificate form manufacturer along with serial number of every	Nos	2.00	8,228.00	16,456.00
25.02	MR	Providing and fixing (ABC Dry Chemical Powder) type Fire Extinguisher of Capacity 6 kg Confirms to IS 15683, bearing ISI mark complete with brass forged squeeze grip type valve fitted with pressure gauge, pressurize with dry Nitrogen gas filled, with discharge nozzle with wall mounting bracket (rubber gripped) complete with internal charges. (Contractor should submit test certificate form manufacturer along with serial number of every extinguishers	Nos	20.00	3,261.00	65,220.00
25.03	MR	Providing and fixing water Carbon-di-oxide (ISI marked) extinguishers including all accessories as per IS specification with wall bracket with rawl plug complete as reqd.( Contractor should submit test certificate form manufacturer along with serial number of every extinguishers supplied.)  Capacity 9 Litres	Nos	2.00	4,133.00	8,266.00
		Total of sub-head (25.0) (Non DSR)				89,942.00
26.0	18.4	FIRE PUMPS & ACCESSORIES  Supplying, installation, testing and commissioning of electric driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Terrace Pump)				
		(a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical				

S. No.	DSR 2021	Description  b) Suitable HP squirell cage induction motor	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		TEFC type suitable for operation on 415 volts, 3 phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horiziontal foot mounted type with Class-'F' insulation, conforming to IS-325.				
		(c) M.S.fabricated common base plate, coupling, coupling guard, foundation bolts etc.as required.  (d) Suitable cement concrete foundation duly				
	40.4.4	plastered and with anti vibration pads.	Cat	2.00	97 202 00	250 (00 00
	18.4.1	450 lpm at 35 m Head	Set	3.00	86,203.00	258,609.00
26.02	MR	Providing and fixing rubber expansion joint (to provide relief from stresses at pipe flanges) as per specification of the manufacturers and direction of Engineer in chief PN-16 rating				
		(a) 100 mm dia	Nos	3.00	560.00	1,680.00
26.03	18.20	Supplying and fixing air vessel made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia gun metal wheel valve with required accessories, pressure gauge and paintingwith synthetic enamel paint of approved shade as required.	Nos	3.00	18,244.00	54,732.00
26.04	MR	"Providing, fixing, testing and commissioning of control panel for Terrace Booster pumps. Incoming: MCCB 35A 1 set of Phase indicating lamps, 1 set of 35A Al bus bars, 1No Ammeter, 1No Voltmeter with phase selector switch Feeder for Booster Pumps - 1 No. 1 No. 32A TP MCCB without releases. DOL starter with over load relay, single phase preventor and indicating lamps with ON/OFF push buttons. 1 No. Automanual selector switch. Suitable for booster pumps"	Nos	3.00	36,724.00	110,172.00
		Total of sub-head (26.0) (DSR)				313,341.00 111,852.00
		Total of sub-head (26.0) (Non DSR)				111,832.00
	El	LECTRICAL WORKS (Internal)				
27.0		Internal Wiring				
27.0						
		<b>Point wiring</b> in PVC conduit, with modular type switch:-				
27.01	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	1.10.1	Group A	Point	1,149.00	1,015.00	1,166,235.00
	1.10.2 1.10.3	Group B Group C	Point Point	30.00 410.00	1,182.00 1,467.00	35,460.00 601,470.00
	1.10.3	Coroup C	roint	410.00	1,407.00	001,470.00

	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
27.02	1.55	Wiring for group controlled (looped) light point/ fan point/ exhaust fan point/ call bell point (without independent switch etc) with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed PVC conduit, and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc as required.  (Note: To be provided in class rooms in school bldg/common group troilets/corridors etc.)				
	1.55.1	Group A	Point	223.00	649.00	144,727.00
	1.55.2	Group B	Point	2.00	753.00	1,506.00
	1.55.3	Group C	Point	209.00	858.00	179,322.00
27.03	1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable	Point	40.00	1,562.00	62,480.00
		Power plug wiring in PVC conduit (2 x 4				
27.04	1.12	Sq.Mm.):- Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing	Metre	5,399.00	334.00	1,803,266.00
		Power plug wiring in PVC conduit (4 x 4				
		Sq.Mm.) :-				
27.05	1.13	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 2 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing	Metre	998.00	537.00	535,926.00
		Circuit / Sub main wiring in PVC conduit :-				
27.06	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.				
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	Metre	3,804.00	233.00	886,332.00
	1.14.4	2 x 6 sq.mm. + 1 x 6 sq.mm. Earth wire	Metre	675.00	439.00	296,325.00
	1.14.5	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	Metre	990.00	570.00	564,300.00
	1.14.9	4 x 6 sq.mm. + 2 x 6 sq.mm. Earth wire	Metre	900.00	754.00	678,600.00
	1.14.10	4 x 10 sq.mm. + 2 x 6 sq.mm. Earth wire	Metre	360.00	1,005.00	361,800.00
27.07	1.31	S/F light plug point Modular Type Accessories:- Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	931.00	477.00	444,087.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
27.08	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	377.00	586.00	220,922.00
27.09	2.18	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	31.00	1,621.00	50,251.00
27.10	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	33.00	99.00	3,267.00
27.11	1.56	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 nos. of 3 pin 5/6 A modular socket outlet and 2 nos. of 5/6 A modular switch, connections etc. as required.		45.00	676.00	30,420.00
		Total of sub-head (27.0) (DSR)				8,066,696.00
20.0						
28.0 28.01	2.10	Distribution Boards & MCB'S  Supplying and fixing 5 A to 32 A rating, 240/415  V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as Required.				
	2.10.1	Single pole	Each	1 420 00	256.00	366,080.00
	0 10 5			1,430.00		1 220 00
	2.10.5	Triple pole and neutral	Each	1,430.00	1,228.00	1,228.00
28.02	2.10.5	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.				1,228.00 338.00
28.02	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.  Supplying and Fixing Following way, Horizontal Type Three Pole and Neutral, Sheet Steel, MCB Distribution Board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	Each	26.00	1,228.00	338.00
	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.  Supplying and Fixing Following way, Horizontal Type Three Pole and Neutral, Sheet Steel, MCB Distribution Board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).  4 Way (4 + 12), Double Door	Each  Each	1.00 26.00 4.00	1,228.00 13.00 4,091.00	338.00 16,364.00
	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.  Supplying and Fixing Following way, Horizontal Type Three Pole and Neutral, Sheet Steel, MCB Distribution Board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	Each	26.00	1,228.00	338.00
	2.4.1 2.4.1 2.4.2 2.4.3 2.3	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.  Supplying and Fixing Following way, Horizontal Type Three Pole and Neutral, Sheet Steel, MCB Distribution Board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).  4 Way (4 + 12), Double Door  6 Way (4 + 18), Double Door  8 Way (4 + 24), Double Door  Supplying and fixing following way, Single Pole and Neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).	Each Each Each Each	1.00 26.00 4.00 18.00 25.00	1,228.00 13.00 4,091.00 4,974.00 5,967.00	16,364.00 89,532.00 149,175.00
28.03	2.4.1 2.4.1 2.4.2 2.4.3	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.  Supplying and Fixing Following way, Horizontal Type Three Pole and Neutral, Sheet Steel, MCB Distribution Board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).  4 Way (4 + 12), Double Door  6 Way (4 + 18), Double Door  8 Way (4 + 24), Double Door  Supplying and fixing following way, Single Pole and Neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing	Each  Each  Each  Each	1.00 26.00 4.00 18.00	1,228.00 13.00 4,091.00 4,974.00	16,364.00 89,532.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
28.05	2.12	S/F <b>DP Isolator</b> Supplying and fixing following Rating, Double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as Required.				
	2.12.1 2.14.3	40 Amps 63 Amps	Each Each	20.00 28.00	435.00 527.00	8,700.00 14,756.00
28.06	2.13	S/F 4P Isolator  Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as Required.				
	2.13.1 2.13.2 2.13.3	40 Amps 63 Amps 100 Amps	Each Each Each	21.00 26.00	970.00 1,034.00 1,227.00	20,370.00 26,884.00
		S/F DP (RCCB)			,	
28.07	2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as Required.				
	2.14.2 2.14.3	40 Amps 63 Amps	Each Each	20.00 28.00	2,642.00 2,722.00	52,840.00 76,216.00
28.08	2.15	Supplying and fixing following rating, Four pole, (Threee phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc.				
	2.15.2 2.15.3	40 Amps	Each Each	21.00 26.00	3,188.00 2,872.00	66,948.00
28.09	2.15	Supplying and fixing of following ways surface/recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note: Vertical type MCB TPDB is normally used	Lacii	20.00	2,872.00	74,672.00
	2.5.1	4 way (4 + 12), Double door	Each	3.00	7,512.00	22,536.00
28.10	2.23	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 Volts, on surface/ recess, complete with testing and commissioning etc. as required.				
	2.23.1	For 6 way, Double door SPN MCBDB	Each	19.00	752.00	14,288.00
	2.23.2	For 8 way, Double door SPN MCBDB	Each Each	1.00	832.00	832.00 25,256.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
28.11	2.24	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following tripole pole and neutral, sheet steel, MCB distribution board, 415 Volts, on surface/ recess, complete with testing and				
	2.24.1	commissioning etc. as required. For 4 way, Double door TPN MCBDB	Each	4.00	1,080.00	4,320.00
	2.24.2	For 6 way, Double door TPN MCBDB	Each	18.00	1,124.00	20,232.00
	2.24.3	For 8 way, Double door TPN MCBDB	Each	25.00	1,340.00	33,500.00
28.12	2.16	Supplying and fixing DP sheet steel enclosure on surface/recess along with 25/32 A 240V "C" Curve DP MCBcomplete with connections, testing and commissioning etc. as required. (For Otrs Emergency Supply)	Each	31.00	1,169.00	36,239.00
28.13	MR	Supplying and fixing following rating, Single/double/ three pole, 230/415 volts, MCB "C" curve in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
		63 amps FP MCB	Each	9.00	1,716.00	15,444.00
		Total of sub-head (28.0) (DSR) Total of sub-head (28.0) (Non-DSR)				1,230,613.00 15,444.00
29.0		Telephone, Television & Data System (Socket, Wiring & Conduting Only)				10,,,,,,,
29.01	1.27	S/F Modular Boxes, Base & Cover Plate:- Supplying and Fixing Following Size/ Modules, GI Box Alongwith Modular Base & Cover Plate for Modular Switches in Recess etc. as Required.				
	1.27.1 1.27.2	1 or 2 Module (75 mm x 75 mm) 3 Module (100mmX75mm)	Each Each	180.00 45.00	298.00 327.00	53,640.00 14,715.00
	1.21.2	5 Hodge (Toommer/Shim)	Lucii	13.00	327.00	11,713.00
29.02	1.24	S/F Modular Type Switch / Socket :- Supplying and Fixing Following Modular Switch/ Socket on The Existing Modular plate & Switch Box including connections But Excluding Modular Plate etc. as required.				
	1.24.6 1.24.7	Telephone Socket outlet.  TV Antenna socket outlet.	Each Each	61.00	148.00 148.00	9,028.00
	1.44./	1 v Amelina Socket Outlet.	Lacii	38.00	140.00	5,624.00
29.03	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as				
	1.21.1	20 mm.	Metre	1,765.00	128.00	225,920.00
	1.21.2	25 mm.	Metre	380.00	145.00	55,100.00
29.04	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, Unarmored Telephone cable in the existing surface/recessed steel/ PVC conduit as required.  2 Pair	Metre	1,085.00	38.00	41,230.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
29.05	1.19	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Metre	570.00	47.00	26,790.00
29.06	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.		025.00	57.00	52 525 00
29.07	1.53.1 MR 1	1 run of cable  SITC Modular Type Computer jack <b>RJ 45</b> ISI mark 1 Module on existing Mounting plate and box	Metre Each	925.00 82.00	227.00	52,725.00 18,614.00
		Total of sub-head (29.0) (DSR) Total of sub-head (29.0) (Non DSR)				484,772.00 18,614.00
30.0		Internal Lighting Fixtures & Fans				
30.01	MR 2	Supply of 20 Watt LED light Wall Mounted BRACKET light fitting Sutaible for 220 volts Single Phase A C Supply complete with all accessories as required.	Each	1.00	954.00	954.00
30.02	MR 3	Supply of Surface Mounted Energy Efficient, LED Luminaires 12W LED DOWN LIGHT (Round) Sutaible for 220v Single Phase Supply complete with driver circuit including making connections etc.as required. (Technical Data - System power 12W, CRI ≥80, Power Factor ≥0.95, System Luminous Efficacy >94).	Each	60.00	887.00	53,220.00
30.03	MR 4	Supply of Surface Mounted Energy Efficient, LED Luminaires 15W LED DOWN LIGHT (Round) Sutaible for 220v Single Phase Supply complete with driver circuit including making connections etc.as required. (Technical Data - System power 15W, CRI ≥80, Power Factor ≥0.95, System Luminous Efficacy >94)	Each	35.00	951.00	33,285.00
30.04	MR 5	Supplying and fixing brass batten/ angle holder including 20 w LED Lamp, connection etc. as required.	Each	449.00	300.00	134,700.00
30.04	MR 5	Supply, of Linear & Compact 10W Mirror Light with Decorative Grey Caps, Polycarbonate Body & Ribbed Opal Diffuser. (Technical Data - System power 10W, CRI ≥80, Power Factor ≥0.95, System Luminous Efficacy >100)	Each	1.00	327.00	327.00
30.05	MR 6	Supply of LED Luminaires BATTEN 40W LED Tube Light of Box Type prewired Indoor Luminaire with Energy Efficient Electronic Ballast, with End Caps Complete as Required. (Technical Data - System power 40W, CRI ≥80, Power Factor ≥0.95, System Luminous Efficacy >95)	Each	160.00	1,078.00	172,480.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
30.06	MR 7	Supply of LED Luminaires BATTEN 20W LED Tube Light of Box Type Prewired Indoor Luminaire with Energy Efficient Electronic Ballast, with End Caps Complete as Required.(Technical Data - System power 20W, CRI ≥80, Power Factor ≥0.95, System Luminous Efficacy >100)	Each	729.00	455.00	331,695.00
30.07	MR 8	Supplying and fixing of Bulk Head with 10 Watt LED lamp fitting Sutaible for 230 volts Single Phase A C Supply complete with all accessories as	Each	28.00	1,203.00	33,684.00
		SUPPLY FANS & EXHAUST FANS				
30.08	MR 8	Supply, of following size sweep, BEE 5 star rated, white colour ceiling fan with all accessories i.e. 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, safety pin,nut bolts, washers, , suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as (a) 1200 mm Sweep	Each	449.00	2,130.00	956,370.00
30.09	MR9	Supply of following sweep heavy duty metal body exhaust fan/wall fan/ fresh air (ventilating) plastic body fan with guard suitable operation on single phase 230 V, 50Hz. AC Supply, with lowers / shutters in the existing opening. (Crompton - Trans Air 300/200mm/Approved Equivalent in Usha/Hayells/Bajaj)				
		(a) 200 mm sweep 900 RPM (in plastic body)Ventila	Nos	11.00	1,240.00	13,640.00
		(b) 300 mm sweep 900 RPM (in plastic body)Ventilating fan		28.00	1,852.00	51,856.00
		(c) 300 mm sweep 900 RPM ( In metal body) exhaust fan (d) 450 mm sweep 900 RPM ( In metal body)	Nos Nos	35.00 4.00	2,873.00	18,120.00
		exhaust fan	1105	4.00	4,530.00	18,120.00
		e) 400 mm sweep oscillating type four speed wall mounting fan	Nos.	3.00	2,448.00	7,344.00
30.10	1.41	Erection Of Lighting Fixtures And Fans Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as	Each	986.00	206.00	203,116.00
30.11	1.45	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the Fan Box etc. as Required.	Each	449.00	339.00	152,211.00
30.12	1.50	Installation of Exhaust/wall fan in the existing opening, including making good the damage, Connection, Testing, Commissioning etc. as				
	1.50.1	Upto 450 mm sweep	Each	81.00	450.00	36,450.00
		S/F modular type electronic fan regulator:			+	

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
30.13	1.25	Supplying and fixing Two Module Stepped Type Electronic Fan Regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	449.00	369.00	165,681.00
		Fixing Louvers / Shutters for Exhaust Fan:				
30.14	1.51	Extra for Fixing the Louvers/ Shutters Complete with Frame for a Exhaust Fan of all sizes.	Each	39.00	207.00	8,073.00
30.15	1.47	Extra Down GI Pipe 15mm Dia:  Supplying and Fixing Extra Down Rod of 10 cm Length G.I. pipe, 15 mm dia, heavy gauge including painting etc. as required. (Note: More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored).	Each	449.00	46.00	20,654.00
		Total of sub-head (30.0) (Non DSR)				1,908,230.00
		Total of sub-head (30.0) (DSR)				586,185.00
		ELECTRICAL WORKS (External)				
31.0		Transformer and HT Panel				
31.01	MR 1	11KV HT VCB PANEL - IN DOOR TYPE				
		Supplying, installation, testing and commissioning of IN DOOR Type, floor mounting, 11KV HT panel unit made out of M.S sheet steel clad dust and vermin proof with necessary control fuses/MCBs, Termination arrangements for Incoming and Outgoing Cable of 3Cx120 Sq.mm Al.HT XLPE cable, and earthed cable, Terminal Blocks, Earthing, Powder coated painting, Sign writing and Base channels etc. with complete all accessories as required as per Requirements comprising of the				
		INCOMING: i) 630Amps, 11kV, 3 phase 50Hz, 21KA / 3Sec, Draw-out type Vacuum Circuit Breaker. fitted with 230V AC spring charging motor, 110V DC tripping and closing coils, 8NO+8NC Aux. conductor mechanical on off indicator, spring charging / discharge Indication, automatic safety shutter and with anti-numning feature with necessary required ii) 3 phase 11 KV/110 Volts PT, class 1 accuracy and 100 VA burden with 1 No Voltmeter (0-15 kV),		-	-	-
		Digital type, selector switch for voltmeter and protection fuses for HT metering upto 12 kV on incomer.  iii) Dual core dual ratio 3 CTs 400/200/5+5A of 15 VA burden and accuracy class 1.0 for metering and class 5P10 for protection.  iv) (0-400 A) Ammeter, digital type with selector				
		switch for Ammeter. v) Digital Multifunction Meter. vi) Microprocessor based numerical relay for Over current and Earth fault protection with directional control. vii) Phase indicating lamps with HRC fuses.				

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S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		viii) Indicating lamps to indicate, RYB, ON, OFF, OPEN, CLOSE, TRIP, SPRING CHARGED, TRIP CIRCUIT HEALTHY				
		ix) Test terminal block				
		x) Trip/Neutral/close switch				
		xi) Copper bus bar for earthing (common)				
		xii) master trip relay & trip circuit healthy				
		supervision relay.				
		BusBar: 630 Amps, 11kV, 50Hz, 3Phase, 25 KA / 3Sec. Copper busbars.				
		The 11KV HT VCB PANEL shall be complete with	set	1.00	473,557.00	473,557.00
		as per SLD and specifications.				
31.02	MR 2	11KV TRANSFORMER (11 KV /0.433 KV) (250 KVA)		-	-	
		Supplying, installation, testing and commissioning of 250 kVA, (Energy efficiency Level -2) 11kV / 433 Volts, 3 phase, 50Hz,vector group Dyn11 (delta -star connected), Indoor 'ONAN' type, copper wound transformer with OFF load tap changing arrangement on HV side in steps of +/- 2.5%, +/- 5% & +/- 7.5%, on H.V. side with HT cable chamber suitable for Heat shrinkable joint with XLPE cable (cable entry from bottom) and LT connection chamber suitable for connecting Bus duct arrangement and equipped with other essential accessories including providing complete with all fittings, accessories etc. and lifting lugs i/c first filling of filtered dehydrated oil, supplying grouting suitable MS Channel on the plinth for placing the transformer etc., complete and confirming to IS 1180 (Part-1): 2014, level - 2 & section 3 of CPWD General specification for Electrical works (Part -IV Substation 2013 as	set	1.00	760,449.00	760,449.00
		SHALL BE IN COMPLINACE WITH NEW REGUALTION IS 1180 or Equivalent IEC Standard FOR LOSSES AND EFFICIENCY and				
		ammended unto date) Total of sub-boad (21.0) (Non-DSD)				1,234,006.0
		Total of sub-head (31.0) (Non DSR)				1,234,000.00
32.0		DANELS				
32.0	140	PANELS Emergency Panel				
	MR	Line gency Fanel				

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		Supply , installation, testing, Design, manufacture, supply inspection, handling, assembling, affecting proper connections, testing and commissioning of 1.6/2mm CRCA sheet steel fabricated cubical type Main L.T. Panel floor mounting Extensible Type, dust & vermin proof, front operated construction, enclosure class - IP 42, As per IEC 60439 after proper treatment with 9 tank process with top/bottom removable gland plates, as required, double compression type cable glands, earth bus, hinged and lockable doors to achieve dust and vermin proof complete with all inter connections small wiring by min. 1.5-2.5 sq. mm. FR copper wires, ckt labels etc. The panel feeders shall be suitable for				
		terminating suitable nos. 3.5 / 4 core armoured INCOMING:				
		1 nos. 50 A 415V, 4P MCCB of 25kA with thermal magnetic release, overload, short circuit and Earth fault protection.  1 no. Digital type Multifunction Meters to show (V, A, kWh, KVAh, KW, KVA, KVAR, PF, Hz.) with cast resin CTs.  1 Set of phase indicating lamps with MCB protection.				
		OUTGOING				
		9 nos. 20 A 4P MCB				
		4 nos. 32 A, 4P MCB 2 nos. 20 A 415V, 4P MCB of 10kA with 40A 4P Contactor & timer switch.		1.00	83,980.00	83,980.00
32.01	MR 4	Main LT PANEL				-
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inhuilt protections.  Suppy, installation, testing, Design, manufacture, supply inspection, handling, assembling, affecting proper connections, testing and commissioning of 1.6/2mm CRCA sheet steel fabricated cubical type Main L.T. Panel floor mounting Extensible Type, dust & vermin proof, front operated construction, enclosure class - IP 42, As per IEC 60439 after proper treatment with 9 tank process with top/bottom		-		
		removable gland plates, as required, double compression type cable glands, earth bus, hinged and lockable doors to achieve dust and vermin proof complete with all inter connections small wiring by min. 1.5-2.5 sq. mm. FR copper wires, ckt labels etc. The panel feeders shall be suitable for terminating suitable nos. 3.5 / 4 core armoured aluminium cable  All MCCB's shall be Ics = 100% Icu, with rotary handle & pad locking arrangement. All TP MCCB		-		

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		The breaking capacity specified for all MCCB's		-		
		breakers is Ics value (service rating).  Each Incoming (ACB/MCCB) shall have				
		ON/OFF/Trip/ LED indication on panel Front door.		-		
		The incoming MCCB shall be Microprocessor based		-		
		with inbuilt O/L & S/C release with E/F protection				
		and all Outgoings MCCB's shall be thermal-magnetic				
		based with inbuilt O/L & S/C release.				
		Incoming From TRANSFORMER 1 (250 KVA) -				
		1 NOS. (Phase I)				
		Incomer: 1 Nos 400A TP MCCB 36KA with		-		
		Thermal Magnetic Release 1 No. Digital Ammeter		_		
		1 No. Digital Voltmeter		-		
		1 set of 3 CT's of ratio 400/5A, Class 1.0 accuracy		-		
		15 VA burden for Metering. 1 set of 3 CT's of ratio 400/5A, Class 1.0 accuracy		_		
		1 set of 3 CT's of ratio 400/5A, Class 1.0 accuracy 15 VA burden for APFCR.		-		
		3 Nos. LED Type phase indicating lamps, each lamp		-		
		shall be with backup MCB				
		3 Nos. LED Type Indicating lamp for indicating the		-		
		status of feeder - ON / OFF / TRIP. Each lamp shall be with backup MCB.				
		6A SP 10KA MCB				
				-		
		Incoming From Supply Source-2 - 1 Nos 400A				
		TP MCCB 36KA with Thermal Magnetic Release (Phase II) - for future Feeder				
		BUS COUPLER: 1 Nos 400A TP MCCB 36KA.				
		It should be positioned in such manner so that all				
		electrical loads are separated by separate bus				
		Interlocking: Electrical as well as Mechanical				
		Interlocking between incomers and bus coupler				
		shall be executed in such a manner that only two				
		sources should be in circuit at a time.				
		BUS BAR		_		
		TPN Aluminium Bus Bars of Minimum 500 Amp		-		
		with Heat shrinkable coloured sleeves, Shrouds at				
		Joints and including DMC/SMC bus bars supports at				
		required interval complete for cross section, side supports and their spacing etc.				
		subborts and their spacing etc.		-		
		OUT GOING		-		
		19 Nos. Outgoing Feeders:-		-		
		1 Nos. 250A, FP 25KA MCCB (CAPACITOR PANEL)		-		
		9 Nos. 160A, FP 25KA MCCB		_		
		1 Nos. 200A, FP 25KA MCCB		-		
		4 Nos. 100A, FP 25KA MCCB		-		
		4 No 63 AMP 4P 10KA MCCB		-		
		Spare space for 100A MCCB - 02 Nos.		-		
		Complete Panel as Above and complete	set	1.00	471,003.00	471,003.
		Complete I uner us rabore and complete	501	-	1,1,005.00	171,005.

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
32.02	MR 5	AUTOMATIC POWER FACTOR CORRECTION PANEL (CAPACITOR		-		
		PANEL) - 90 KVAR Supplying, Installation, Testing and Commissioning				
		of cubicle type capacitior panel suitable for 415 & 3		-		
		phase 50 HZ A.C. supply System fabricated in				
		design from CRCA Sheet Steel of 2 mm thick for				
		frame work and cover, 3 mm thick for gland plates				
		i/c powder coating in approve shade having 200				
		AMP capacity TPN Aluminium bus bar DMC/SMC bus bar supprot entire pannel should have common				
		Al. earth bar for size 50 mm x 5 mm i/c Providing &				
		fixing following switch gear mounting there on				
		fans,grills for propor ventillation complete with				
		gaskets & inner connection i/c connection with				
		existing CTS in the main CT Panel complete as reqd.				
		a) 250 Amps TP MCCB with Thermal Magnetic		-		
		Based release (Ics=100% Icu) - 1 No. b) 250A, 4 strip Tinned Aluminium busbar -1 Set		_		
		c) Micro processor based automatic Power factor		-		
		control relay i/c power factor metre in 8 steps				
		d) Multi functional meters with suitable CTS and		-		
		protection MCBS 1 set. e) 3 Nos. Phase indicating light (lamp) with MCBs		_		
		protection.				
				-		
		OUTGOINGS -		-		
		2 Set - 63A Amp TP MCCB 10 KA and Capacitor		-		
		duly switching contactor for 20 KVAR capacity auto				
		mannual selector switch start/stop puch button on/off				
		indicatting lamp with protection MCB & delay timer				
		complete i/c 20 KVAR Normal Duty 440V capacitor bank with inter Connection				
		4 Set -32 Amp TP MCCB 10 KA and Capacitor duly		-		
		switching contactor for 10 KVAR capacity auto				
		mannual selector switch start/stop puch button on/off indicatting lamp with protection MCB & delay timer				
		complete i/c 10 KVAR Normal Duty 440V capacitor				
		bank with inter Connection				
		2 Set - 16 Amp TP MCCB 10 KA and Capacitor		-		
		duly switching contactor for 5 KVAR capacity auto mannual selector switch start/stop puch button on/off				
		indicatting lamp with protection MCB & delay timer				
		complete i/c 5 KVAR Normal Duty 440V capacitor				
		bank with inter Connection  Capacitor, panel should switch OFF, when DC		_		
		Capacitor panel should switch OFF when DG starts. Control wiring should be done for it.		-		
		complete panel as above and complete	set	1.00	172,515.00	172,515.00
22.02	MD (	COUCOL BUILDING MAIN DISTRIBUTION		-		-
32.03	MR 6	SCHOOL BUILDING MAIN DISTRIBUTION PANEL		-		

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		Design, manufacture, supply, installation, testing and commissioning of cubicle type panel fabricated out of CRCA sheet steel, floor mounted totally enclosed switchbaord suitable for use of 415 volts, 3 phase, 50 HZ complete with aluminium bus bar and all accessories including supply and fixing of following incoming and outgoing switchgears, Panel Should Have Double Earthing Provision which connected to		-		
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections.		-		
		INCOMER: 160 AMP FP MCCB  3 Nos. Phase Indication light (lamp) with MCBs				
		protection.  Multi functional meters (VAF) with suitable CTS		-		
		and protection MCBS 1 set.  BUS BAR: 200 AMP, 500 Volts, 3 phase 50 HZ 4P high conductivity electrolytic Aluminium bus bar of suitable length, insulated by heat shrinkable sleeves. The current density of bus		-		
		The Maximum allowable temperature for the Bus bar to be restricted to 90 deg C. The temperature rise should be restricted to 45 deg C above ambient temperature.		-		
		OUT GOINGS: 18 No 63 AMP FP MCB		-		
		2 No 40 AMP DP MCB 2 No 63 AMP DP MCB		-		
		complete panel as above and complete	set	1.00	138,864.00	138,864.00
32.04	MR 7	UPS PANEL		-		
		Design, manufacture, supply, installation, testing and commissioning of cubicle type panel fabricated out of CRCA sheet steel, floor mounted totally enclosed switchbaord suitable for use of 415 volts, 3 phase, 50 HZ complete with aluminium bus bar and all accessories including supply and fixing of following incoming and outgoing switchgears, Panel Should Have Double Earthing Provision which connected to the pearest earth grid.		-		
		INCOMER : 1 Nos 63 AMP FP MCCB (Thru Bypass Switch 10 KVA UPS)		-		
		BUS BAR: 100 AMP, 500 Volts, 3 phase 50 HZ FP high conductivity electrolytic Aluminium bus bar of suitable length, insulated by heat shrinkable sleeves. The current density of bus bar shall be minimum 06 sq mm/amp.  The Maximum allowable temperature for the Bus bar		-		
		to be restricted to 90 deg C. The temperature rise should be restricted to 45 deg C above ambient temperature.				
		OUT GOINGS: 3 No 63 AMP DP MCB i/c spare		-		
		3 No 40 AMP DP MCB i/c spare		-	-	

S. No.	DSR 2021	Description  complete panel as above and complete	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
				2.00		-
32.05	MR 8	BOYS HOSTEL MAIN DISTRIBUTION BOARD		-		
		Design, manufacture, supply, installation, testing and commissioning of cubicle type panel fabricated out of CRCA sheet steel, floor mounted totally enclosed switchbaord suitable for use of 415 volts, 3 phase, 50 HZ complete with aluminium bus bar and all accessories including supply and fixing of following incoming and outgoing switchgears, Panel Should Have Double Earthing Provision which connected to		-		
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections.		-		
		INCOMER: 125 AMP FP MCCB  3 Nos. Phase Indication light (lamp) with MCBs		-		
		protection.  Multi functional meters (VAF) with suitable CTS		-		
		and protection MCBS 1 set.  BUS BAR : 160 AMP, 500 Volts, 3 phase 50 HZ 4P high conductivity electrolytic Aluminium bus bar of suitable length, insulated by heat shrinkable sleeves. The current density of bus bar shall be minimum 0.6 sq mm / amp		-		
		The Maximum allowable temperature for the Bus bar to be restricted to 90 deg C. The temperature rise should be restricted to 45 deg C above ambient temperature.		-		
		OUT GOINGS: 14 No 63 AMP FP MCB		-		
		2 No 40 AMP DP MCB		-		
		2 No 63 AMP DP MCB		-		
		complete panel as above and complete	set	1.00	108,206.00	108,206.00
32.06	MR 9	GIRLS HOSTEL MAIN DISTRIBUTION		-		
		Design, manufacture, supply, installation, testing and commissioning of cubicle type panel fabricated out of CRCA sheet steel, floor mounted totally enclosed switchbaord suitable for use of 415 volts, 3 phase, 50 HZ complete with aluminium bus bar and all accessories including supply and fixing of following incoming and outgoing switchgears, Panel Should Have Double Earthing Provision which connected to NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections.  INCOMER: 125 AMP FP MCCB		-		
		3 Nos. Phase Indication light (lamp) with MCBs protection.  Multi functional meters (VAF) with suitable CTS and protection MCBS 1 set.		-		

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		BUS BAR : 160 AMP, 500 Volts, 3 phase 50 HZ 4P high conductivity electrolytic Aluminium bus bar of suitable length, insulated by heat		-		
		shrinkable sleeves. The current density of bus				
		The Maximum allowable temperature for the		-		
		Bus bar to be restricted to 90 deg C. The				
		temperature rise should be restricted to 45 deg C above ambient temperature.				
		OUT GOINGS :		_		
		14 No 63 AMP FP MCB		-		
		2 No 40 AMP DP MCB 2 No 63 AMP DP MCB		1.00	108,206.00	108,206.00
		complete panel as above and complete		1.00	108,206.00	108,206.00
		eomplete panel as above and complete				
32.07	MR 10	TYPE -II & III STAFF QTRS. DISTRIBUTION BOARD				
		Design, manufacture, supply, installation, testing and				
		commissioning of cubicle type panel fabricated out of CRCA sheet steel, floor mounted totally enclosed				
		switchbaord suitable for use of 415 volts, 3 phase,				
		50 HZ complete with aluminium bus bar and all				
		accessories including supply and fixing of following				
		incoming and outgoing switchgears, Panel Should				
		Have Double Earthing Provision which connected to				
		NOTE:- MCCB's wherever specified upto 250A				
		shall be Thermal Magnetic & Above 250A will be				
	(4)	Microprocessor based inbuilt protections.				
	(A)	INCOMER: 125 AMP FP MCCB  3 Nos. Phase Indication light (lamp) with MCBs				
		protection. Multi functional meters (VAF) with				
		suitable CTS and protection MCBS 1 set.				
		<b>BUS BAR</b> : 160 AMP, 500 Volts, 3 phase 50 HZ				
		4P high conductivity electrolytic Aluminium bus bar				
		of suitable length, insulated by heat shrinkable				
		sleeves. The current density of bus bar shall be minimum 0.6 sq mm / amp  The				
		Maximum allowable temperature for the Bus bar to				
		be restricted to 90 deg C. The temperature rise				
		should be restricted to 45 deg C above ambient OUT GOINGS:				
		12 Nos 63 AMP DP MCB (For each Qtr.DBs and		2.00	55,775.00	111,550.00
		Spare )			,.,	
		complete panel as above and complete				
	(B)	INCOMER : 125 AMP FP MCCB				
		3 Nos. Phase Indication light (lamp) with MCBs protection. Multi functional meters (VAF) with				
		suitable CTS and protection MCBS 1 set.  BUS BAR : 160 AMP, 500 Volts, 3 phase 50 HZ				
		4P high conductivity electrolytic Aluminium bus bar				
		of suitable length, insulated by heat shrinkable				
		sleeves. The current density of bus bar shall be				
		minimum 0.6 sq mm / amp The				
		Maximum allowable temperature for the Bus bar to				
		be restricted to 90 deg C. The temperature rise should be restricted to 45 deg C above ambient				
		OUT GOINGS :				

S. No.	DSR 2021	Description  7. Nos. 62. AMP. DP. MCP. (For each Ots DPs. and	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		7 Nos 63 AMP DP MCB (For each Qtr.DBs and Spare )		1.00	44,183.00	44,183.00
		complete panel as above and complete				
32.08	MR 11	EXTERNAL LIGHT FEEDER PILLAR  Design, Manufacture, Supply, Installation, Testing and Commissioning of Panel Fabricated out of 16 SWG CRCA sheet steel, IP 54, wall / floor mounting type with rain canopy The sheet steel shall undergo minimum 7 tank treatment followed by finishing powder coating of min 60 micron thickness. the board includes 415 /240 V electrolitic Aluminium Bus Bar, removable gland plates, cable glands, including connection with outgoing feeders complete in all respect, Panel Should Have Double Farthing Provision Which Connected to the Nearest INCOMER:  1 no. 100A, 25KA 4P MCCB with Thermal Magnetic based releases, ON indication, + 3 Nos 63A DP MCB For each Phase.with 3 Nos Astronomical Weekly programmable time switch (SST- 1min) ON Phase for automaite switching of landscape light fixtures at sun set and sun rise or twilight (auto on/ auto off and auto mode) with manual override faiclity with 12/24 hour display format with suitable battery and indication for relav BUS BAR  TPN Aluminium bus bar with heat Shrink Sleeve rated for 125A.  OUTGOING  18 nos 16A DP MCB (For Compound Group Light + Spare)  4 Nos 16KA 40A FP MCCB (Spare)  1 nos 40A FP MCCB (BORE WELL STAND BY)  Other items such as				
		1 Set of control wiring				
		1 Set of designation plates				
		All Items complete as above	set	2.00	89,623.00	179,246.00 1,443,617.00
		Total of sub-head (32.0) (Non DSR)				1,775,017.00
33		Supply Of L.T. Cable: Supplying of Following Sizes of 1.1 kV Grade Multicore Aluminium Conductor XLPE Power Cable Insulated armoured cable conforming to IS:7098 (Part - I) or as per Relevant IS Code complete with all Amendments etc and should be NABL certified as required.				
	MR	3.5 C X 300 Sq.mm Al. XLPE arm.	Metre	30.00	2,365.00	70,950.00
	MR	3.5 C X 150 Sq.mm Al. XLPE arm.	Metre	185.00	1,192.00	220,520.00
	MR MR	3.5 C X 120 Sq.mm Al. XLPE arm. 3.5 C X 95 Sq.mm Al. XLPE arm.	Metre Metre	565.00	1,015.00 827.00	573,475.00
	MR	3.5 C X 70 Sq.mm Al. XLPE arm.	Metre	135.00	661.00	89,235.00
	MR	3.5 C X 50 Sq.mm Al. XLPE arm.	Metre	45.00	489.00	22,005.00
	MR	3.5 C X 35 Sq.mm Al. XLPE arm.	Metre	155.00	365.00	56,575.00
	MR	3.5 C X 25 Sq.mm Al. XLPE arm.	Metre	1,255.00	296.00	371,480.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
	DSR 7	LT Cable Laying				
33.01	DSR 7.1	Laying of One Number PVC Insulated And PVC Sheathed / XLPE Power Cable of 1.1 kV Grade of Following Size Direct in Ground Including Excavation, Sand Cushioning, Protective Covering and Refilling the Trench etc. as required.		-	-	
		Upto 35 sq. mm	Metre	350.00	387.00	135,450.00
		Above 35 sq. mm and upto 95 sq. mm	Metre	50.00	405.00	20,250.00
	DSR 7.1.3	Above 95 sq. mm and upto 185 sq. mm	Metre	250.00	422.00	105,500.00
33.02	DSR 7.2	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc		-	-	
	DSR 7.2.1	Upto 35 sq. mm	Metre	350.00	269.00	94,150.00
		Above 35 sq. mm and upto 95 sq. mm	Metre	50.00	286.00	14,300.00
	DSR 7.2.3	Above 95 sq. mm and upto 185 sq. mm	Metre	200.00	304.00	60,800.00
33.03		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation and refilling the trench etc as required, but excluding sand cushioning and protective covering.	Matus	200.00	200.00	<b>CO 000 00</b>
	DSR 7.3.1 DSR7.3.2	Upto 35 sq. mm Above 35 sq. mm and upto 95 sq. mm	Metre	300.00 40.00	200.00	60,000.00
		Above 95 sq. mm and upto 93 sq. mm Above 95 sq. mm and upto 185 sq. mm	Metre Metre	200.00	217.00 234.00	8,680.00 46,800.00
	DSK 7.3.3	Above 93 sq. min and upto 183 sq. min	Metre	200.00	234.00	40,800.00
33.04	DSR 7.5	Laying of one number PVC insulated & PVC sheathed/ XLPE Power cable of 1.1 KV grade of following size in the existing RCC/HUME/METAL pipe as required.				
		Upto 35 sq. mm	Metre	200.00	37.00	7,400.00
		Above 35 sq. mm and upto 95 sq. mm	Metre	15.00	57.00	855.00
	DSR 7.5.3	Above 95 sq. mm and upto 185 sq. mm	Metre	40.00	77.00	3,080.00
33.05	DSR 7.7.1 DSR 7.7.3	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.  Upto 35 sq. mm (clamped with 1mm thick saddle) Above 35 sq. mm and upto 95 sq. mm (clamped)	Metre Metre	10.00	55.00 130.00	550.00 650.00
	טאנע	with 25x3mm MS flat clamp)	ivicute	3.00	130.00	030.00
	DSR 7.7.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Metre	10.00	153.00	1,530.00
33.06	DSR 7.6	Laying of one number PVC insulated & PVC sheathed/ XLPE Power cable of 1.1 KV grade of following size in the existing masonary open duct as required.				
	DSR 7.6.1	Upto 35 sq. mm	Metre	200.00	28.00	5,600.00
		Above 35 sq. mm and upto 95 sq. mm	Metre	20.00	45.00	900.00
		Above 95 sq. mm and upto 185 sq. mm	Metre	50.00	63.00	3,150.00
	DSR 7.6.4	Above 185 sq. mm and upto 400 sq. mm	Metre	30.00	115.00	3,450.00
	1		ı l			

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
33.07	DSR 9.1	Supplying and Making End Termination With Brass Compression Gland and Aluminium lugs for Following Size of PVC Insulated and PVC Sheathed / XLPE Aluminium Conductor Cable of 1.1 kV Grade as Required.		-	-	
	DSR 9.1.20	3½ X 25 sq. mm (28mm)	Each	32.00	313.00	10,016.00
	DSR 9.1.21	3½ X 35 sq. mm (32mm)	Each	2.00	369.00	738.00
		3½ X 50 sq. mm (35mm)	Each	4.00	413.00	1,652.00
		3½ X 70 sq. mm (38mm)	Each	2.00	468.00	936.00
		3½ X 95 sq. mm (45mm)	Each	10.00	588.00	( 120.00
		3½ X 120 sq. mm (45mm) 3½ X 150 sq. mm (50mm)	Each Each	10.00	613.00 697.00	6,130.00 1,394.00
		3½ X 300 sq. mm (70mm)	Each	2.00	1,195.00	2,390.00
	DSR 7.1.30	572 A 500 sq. mm (70mm)	Lacii	2.00	1,175.00	2,370.00
		Total of sub-head (33.0) (Non DSR)				1,404,240.00
		Total of sub-head (33.0) (DSR)				596,351.00
24.0		HT Calls And Annual Con				
34.01 34.01	MR 18	HT Cable And Accessories Supply of H.T. Cable		+		
		Supply & Testing of following 11 KV( UE) grade multicore Aluminium conductor XLPE insulated cable, insulation screening with extruded semi conducting compound in combination with copper tape armoured cores laid up, inner sheath of PVC tape, galvanised steel flat strip armoured and overall PVC sheathed cable conforming to IS: 7098 (Part - ID) and complete with all latest amendments etc.				
		3 C x 70 Sq. mm 11 KV (UE)	Metre	70.00	1,210.00	84,700.00
34.02	DSR 8	H.T. Cable Laying-DSR Item H V CABLE LAYING Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of				
		size upto 120 sq.mm. as under:-  (a) direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.	Metre	30.00	525.00	15,750.00
	DSR 8.2.1	(b)direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.	Metre	-	362.00	-
	DSR 8.3.1	(c) in the existing RCC/HUME/METAL pipe as required.	Metre	10.00	77.00	770.00
	DSR 8.4.1	(d) in the existing masonary open duct as required.	Metre	30.00	63.00	1,890.00
34.03	DSR 10.1 DSR 10.1	H.T Termination: DSR Item Supply and making Indoor cable end jointing with cast resin compund, including lugs and other jointing materials for following size of 3 core, XLPE				
		aluminium conductor cable of 11KV (UE) grade as required.				
	10.1.1	3 C x 70 Sq.mm (11KV UE)	Sets	3.00	2,075.00	6,225.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
34.04	DSR 10.2	Supply and making Outdoor cable end jointing with cast resin compund, including lugs and other jointing materials for following size of 3 core, XLPE aluminium conductor cable of 11KV (UE) grade as required.				
	10.2.2	3 C x 70 Sq.mm (11KV UE)	Sets	1.00	4,769.00	4,769.00
		Total of sub-head (34.0) (Non DSR)				84,700.00
		Total of sub-head (34.0) (DSR)		-		29,404.00
35.0	DSR 2	Miscellaneous Items - DSR		-		
35.01	2.21	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single red colour on front side as required.	Nos.	12.00	269.00	3,228.00
35.02	2.22	Providing and fixing H.T. danger notice plate of 250 mm X 200 mm, made of mild steel, at least 2 mm thick, and vitreous enameled white on both sides, and with inscription in single Red colour on front side as required.	Nos.	2.00	292.00	584.00
35.03	7.90	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required.	Each	5.00	585.00	2,925.00
35.04	7.10	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Each	5.00	508.00	2,540.00
		Miscellaneous Items - MR Items			-	
35.05	MR 19	SITC of <b>shock treatment chart</b> (prescribed under I.E.rules) duly framed with glass and supported from back with hard board with supply of all material labour T & P etc for proper completion of work. (Approx front area = 1.20 sq M)	Nos.	2.00	450.00	900.00
35.06	MR 20	SITC of First aid box as approved by Indian red	Nos.	2.00	331.00	662.00
35.07	MR 21	cross conforming to IS: 2217.  SITC of Fire Bucket stand made of M S angle suitable for and with 4 Nos Fire Buckets of 9.5 Ltrs capacity filled with	Set	2.00	3,245.00	6,490.00
35.08	MR 22	SITC of of rubber gloves of 11 KV grade as per IS:	Set	2.00	424.00	848.00
35.09	MR 23	4770.  Supplying and fixing of high voltage insulation mat of class B having 11 KV dielectric strength, 1000mm width and thickness of 2.5mm ISI approved as required including cutting to required lengths.	Metre	1.00	3,614.00	3,614.00
35.10	MR 24	Supplying and fixing of high voltage insulation mat of class B having 1.1 KV dielectric strength, 1000mm width and thickness of 2.0 mm ISI approved as required including cutting to required	Metre	3.00	2,451.00	7,353.00
		Total of sub-head (35.0) (DSR)		-		9,277.00
		Total of sub-head (35.0) (Non DSR)		-	-	19,867.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
26.0	Don 5	B. di		-	-	
36.0 36.01	DSR 5 5.4	Earthing  Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required (For BODY EARTHING of each Electrical Panels & Generator Neutral & Body Farthing)	Set	18.00	7,472.00	134,496.00
36.02	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 meter long etc. with charcoal/ coke and salt as required (For Transformer BODY & NEUTRAL EARTHING)	Set	4.00	13,838.00	55,352.00
36.03	5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required	SET	2.00	6,855.00	13,710.00
36.04	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	215.00	244.00	52,460.00
36.05	5.18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/recessed conduit/submain wiring/cable as	Metre	7,170.00	42.00	301,140.00
36.06	5.14	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	Metre	40.00	1,162.00	46,480.00
36.07	5.12	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble excavation and re-filling as	Metre	4,520.00	287.00	1,297,240.00
		Total of sub-head (36.0) (DSR)				1,900,878.00
37.0	DSR 11	Dala Evention		-	-	
37.01	11.3	Pole Erection  Erection of metallic pole of following length in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc. as		-	-	
37.02	11.3.1 11.6	Above 4.5 metre and upto 6.5 metre  Supplying and embedding following dia G.I. pipe (medium class) in pole collar/ foundation (during casting) for cable entry including bending the pipe to the required shape, Hole Seeling to be done complete as required.	Each	38.00	5,121.00	194,598.00
	11.6.1	32 mm dia	Metre	190.00	525.00	99,750.00
		Total of sub-head (37.0) (DSR)		-	_	294,348.00
38.0		External Lighting System		_	_	
38.01	MR 26	Supply , Installation, Testing & Commissioning of Integrated Post Top Lantern With 45W LED Lamp including suitable size dia G.I.Pipe Pole i/c connection with 3 x 2.5 sq.mm single core PVC insulated copper conductor cable from junction box to fixture as required	Nos.	2.00	5,344.00	10,688.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
38.02	MR 27	Supply , Installation, Testing & Commissioning of 60 W LED with complete with pot optic reflector i/c connection with 3x2.5sq.mm single core PVC insulated copper conductor cable from junction box to fixture as required	Nos.	26.00	3,879.00	100,854.00
38.03	MR 28	SITC of Hybrid All In One Integrated Solar LED Street Light fitting rated for 40W output with integrated solar laminate of 80 Wp (or more) based on Mono crystalline cell technology, along with battery of rating 12.8V 30Ah (or more) based on Lithium Ferro Phosphate Chemistry (LiFePO4), with a light output of greater than 6000 Lumens (>6000), LEDs with a life greater than >50000Hrs and Lumen efficacy greater than 150Lm/W, with an autonomy of 2 days (24 hrs.)or more with dimming, INBUILT PROTECTIONS FOR LONGER RELIABILITY - Over Charge Protection, Deep Discharge Protection, Battery Reverse Polarity Protection, Load Short Circuit Protection, Load Open Circuit Protection, Reverse Polarity Protection for Panel and Over Temperature Protection. Surge Protection for Hybrid Models. The housing of the street light should be made of Extruded Aluminium / Die Cast Aluminium, equipped with battery charge controller of efficiency greater than 92%, hybrid controller efficiency of greater than 85% and motion detection sensor with atleast 12mtr range. The light fitting shall be complete with all accessories in all respect as per manufacturer design. The light should also be tested for its performance (LM 79), Ingress protection (IP 65 or more), Impact resistance (IK08 or more) from	Nos.	13.00	44,470.00	578,110.00

( B )The following certificates/documents are mandatory at the time of supply and after execution as and where applicable : 1. ENS0530 - MPPT Efficiency 2. IEC61947 3. IEC61903-32-EMC 4. IEC 60598 - Part 1 - General requirement 5. IEC 62109 6. LM 79 REPORT 7. IK 08 8. IP 65 The Executant must submit the TDS, LM 79 report, IK 08 8. IP 65 The Executant must submit the TDS, LM 79 report, IK 08 8. IP 65 The Executant must submit the approval from the authority prior to start of work/ procurement of Solar street lights. Reports of inhouse lighting company Lab having NABL accrediation will not be acceptable.  Test reports like EN50530 - MPPT Efficiency, IEC61947 /IEC61000-3-2 - EMC, IEC 60598 - Part 1 - General requirement , IEC 62109 obtained from Third party NABL Lab/ TUV/UL/MNRE Lab's test report are required to be submitted by the executant along with manufacturer's warranty certificate in the name of concerned department for providing 5 years comolete system warranty & providing and testing of building outer lighting luminaire aerodynamically shaped single piece pressure die-cast Aluminum luminaire with high edic-cast Aluminum luminaire with high edic-cast Aluminum luminaire with concerned department for providing 5 years comolete system warranty & providing outer lighting luminaire aerodynamically shaped single piece pressure die-cast Aluminum luminaire with night was so cover, with 61 long 40mm dia G.I. pipe with 3 Nos. of fron clamps, anchor nut bots with double washers as per drawing prescribed reflector and heat resistant toughened flat glass cover, (Make: - Philips/Trilux/Hevells-Endura	S. No. DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
mandatory at the time of supply and after execution as and where applicable :- 1. EN50530 - MPPT Efficiency 2. IEC61547 3. IEC61003-32 - EMC 4. IEC 60598 - Part 1 - General requirement 5. IEC 62109 6. LM 79 REPORT 7. IK 08 8. IP 65 The Executant must submit the TDS, LM 79 report, IK 08 8. IP 65 The Executant must submit the providing the authority prior to start of work/ procurement of Solar street lights. Reports of inhouse lighting company Lab having NABL accrediation will not be acceptable.  Test reports like EN50530 - MPPT Efficiency , IEC61547 JEC61000-32 - EMC, IEC 60598 - Part 1 - General requirement , IEC 62109 obtained from Third party NABL Lab/ TUV/UL/MNRE Lab's test report are required to be submitted by the executant along with manufacturer's warranty certificate in the name of concerned department for providing 5 years complete system warranty & certificate in the name of concerned department for providing 5 years complete system warranty & providing outer lighting luminaire aerodynamically shaped single piece pressure die-cast Aluminum luminaire with high power LEDs as light source and electronic driver (IP66), along with 60W LED Lamp as Energy saving as per drawing prescribed reflector and heat resistant toughened flat glass cover, with 5ft long 40mm dia G1, pipe with 3 Nos. of iron clamps , anchor nut bolts with double washers as per direction of E7 or consultant as per drawing prescribed reflector and heat resistant toughened flat glass cover, with 5ft long 40mm dia G1, pipe with 3 Nos. of iron clamps , anchor nut bolts with double washers as per direction of E7 or consultant as per drawing prescribed reflector and heat resistant toughened flat glass cover, with 5ft long 40mm dia G1, pipe with 3 Nos. of iron clamps , anchor nut bolts with double washers as per direction of E7 or consultant as per drawing prescribed reflector and heat resistant toughened flat glass						
38.04 MR 29 Building Outer Light (60W LED): - Supply, fitting, fixing and testing of building outer lighting luminaire aerodynamically shaped single piece pressure die-cast Aluminum luminaire with high power LEDs as light source and electronic driver (IP66), along with 60W LED Lamp as Energy saving as per drawing prescribed reflector and heat resistant toughened flat glass cover, with 5ft long 40mm dia G.l. pipe with 3 Nos. of iron clamps , anchor nut bolts with double washers as per direction of E/I or consultant as per drawing prescribed reflector and heat resistant toughened flat glass		mandatory at the time of supply and after execution as and where applicable:- 1. EN50530 – MPPT Efficiency 2. IEC61547 3. IEC61000-3-2 – EMC 4. IEC 60598 – Part 1 – General requirement 5. IEC 62109 6. LM 79 REPORT 7. IK 08 8. IP 65 The Executant must submit the TDS, LM 79 report, IK 08 & IP 65 report of third party NABL lab, LM80 report of chip manufacturer in the department for obtaining the approval from the authority prior to start of work/ procurement of Solar street lights. Reports of inhouse lighting company Lab having NABL accrediation will not be acceptable.  Test reports like EN50530 – MPPT Efficiency, IEC61547, IEC61000-3-2 – EMC, IEC 60598 – Part 1 – General requirement, IEC 62109 obtained from Third party NABL Lab/TUV/UL/MNRE Lab's test report are required to be submitted by the executant along with manufacturer's warranty certificate in the name of concerned department for providing 5 years				
	38.04 MR 29	fitting, fixing and testing of building outer lighting luminaire aerodynamically shaped single piece pressure die-cast Aluminum luminaire with high power LEDs as light source and electronic driver (IP66), along with 60W LED Lamp as Energy saving as per drawing prescribed reflector and heat resistant toughened flat glass cover, with 5ft long 40mm dia G.I. pipe with 3 Nos. of iron clamps, anchor nut bolts with double washers as per direction of E/I or consultant as per drawing prescribed reflector and heat resistant toughened flat glass	Each	13.00	5,330.00	69,290.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
38.05	MR 30	Supply, Installation, Testing and Commissioning of 200x160x98 (KVPC) Polycarbonate thermoplastics enclosure - junction box with I.P - 65 Protection with Terminals & cable hinged cover of approved design complete having gasket of internally embedded & made of polyeutherene & should be weather proof, rust proof, dust proof, water proof - box shall be tested as per IEC - 60670-2/60670-22. the box shall have self threaded holes & provision for mounting din rail. with 2 Nos cable gland including supplying & fixing crimping 2 nos lugs & 1 nos 32A connector 6 way for looping the incoming & outgoing cables and also connection of the street light one 6A SP MCB Including Connection of 2x6 sqmm Cable etc as	Nos.	13.00	1,258.00	16,354.00
38.06	MR 31	Supply and fixing of GI/MS swaged round/octagonal tubular pole of 6 Metre length (Above Ground) with Top-70 mm, bottom-135 mm, Base Plate 220x220x12 mm, PCD-205 mm, Foundation Bolts-M20X600, suitable for single/double arm bracket for Solar/ LED fitting. The pole shall be provided with suitable base plate arrangement for fixing on pedestal and looping box complete with MCB, brass connectors etc complete i/c making c.c.foundation as required. The street lighting pole shall be in accordance with IS 2713.		38.00	7,279.00	276,602.00
38.07	MR 32	Supplying/fixing of following light pole arm Bracket fabricated out of GI pipe having thickness and length as per manufacturer design complete etc as read. Single arm bracket		24.00	860.00	20,640.00
	b	Double arm bracket		1.00	1,457.00	1,457.00
			1			
38.08		Supplying of Following sizes 1100 volt grade XLPE insulated PVC sheathed aluminium conductor armoured cables as per specification in existing laid in ground including cost of digging upto required depth, 150 mm sand all around the cable, brick protection and back filling, clamped to wall with suitable clamps including saddles fixing bolts, Connection				
38.08	a	XLPE insulated PVC sheathed aluminium conductor armoured cables as per specification in existing laid in ground including cost of digging upto required depth, 150 mm sand all around the cable, brick protection and back filling, clamped to wall with suitable clamps including saddles fixing bolts, Connection	Metre	2,030.00	137.00	278,110.00
38.08	a	XLPE insulated PVC sheathed aluminium conductor armoured cables as per specification in existing laid in ground including cost of digging upto required depth, 150 mm sand all around the cable, brick protection and back filling, clamped to wall with suitable clamps including saddles fixing bolts, Connection Testing and commissioning as Dequired 2x6 sqmm  Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size up to 35 sq. mm		2,030.00	137.00	278,110.00
	a 7.3.1	XLPE insulated PVC sheathed aluminium conductor armoured cables as per specification in existing laid in ground including cost of digging upto required depth, 150 mm sand all around the cable, brick protection and back filling, clamped to wall with suitable clamps including saddles fixing bolts, Connection  Testing and commissioning as Populicad 2x6 sqmm  Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade		2,030.00	200.00	278,110.00 280,000.00

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
38.10	7.5.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
		Upto 35 sq. mm	Metre	100.00	37.00	3,700.00
38.11	14.15.1	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc. in the existing trench complete as required				
		63 mm dia (OD-63 mm & ID-51 mm nominal)	Metre	100.00	127.00	12,700.00
38.12	5.18	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	Metre	1,855.00	42.00	77,910.00
		Total of sub-head (38.0) (DSR)				403,460.00
		Total of sub-head (38.0) (Non DSR)		-	-	1,490,705.00
39.0 0.01	MR 34	10KVA Online UPS 3PH input/ 3PH output Supply of 10 kVA Online UPS, IGBT UPS		-	-	
		(Transformer-less Design).  Supply of SMF Batteries (12Volt VRLA, 26 Ah, 40 Numbers or as per standard Nos to provide 30 Minutes Backup in total for 10 kVA UPS at 0.8PF and ECV=1.7V.  Fully rated Inbuilt static switch at the inverter output and 100% rated Inbuilt static switch at the static bypass line integrated in UPS module.		-	-	
		Supply of Local Accessories (like Cabling Between UPS and the Battery onsidering Cable Routing Battery Interlinks, Battery Rack etc).		-	-	
		Backfeed protection at Mains & Bypass (Inbuilt / External).		-	-	
		Installation and Commissioning of 10 kVA UPS, Battery and Accessories.	set	1.00	230,193.00	230,193.00
39.01	MR 35	Supply, installation, testing and commissioning 63A FP MCB of 10kA breaking Capacity in metal sheet enclosure with ON/OFF, TYB Indication lamps for Incoming of UPS Complete in All Respect as Required.	set	2.00	3,424.00	6,848.00
		Total of sub-head (39.0) (Non DSR)				237,041.00
40.0	MR 36	Lightening Arrester System For Transformer				
10.0	19110 300	Supply, Installation, Testing & Commissioning of Lightening Arrester HT-12 kV expulsion type complete with all Fitting transission class discharge capacity 10 kA complete all as as specified	Each	3.00	3,968.00	11,904.00
		Total of sub-head (40.0) (Non DSR)				11,904.00
41.0		Pumps (Non Schodulad Itams)	-			
+1.0		Pumps (Non Scheduled Items)				

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
41.01	MR	Borewell Submersible Pump	Set	2.00	58,039.00	116,078.00
		Supplying & Installation of suitable borewell submersible pump set coupled with 6" motor and complete with lowering in existing borewell with the help of chain pulley block including supplying and fixing motor starter suitable for the selected pump complete as required.( Note: The suction/delievery nine lines are not included in this item.)  Flow Rate: 350 to 400 LPM  min. Head: 60 M		-	-	
		Min. Motor HP : 7.5 H.P.				
41.02	MR	Supplying and Fixing of PVC covered 6 mm dia flexible steel rope for handling/protecting the submersible Pump set including U-lock arrangement etc. complete as required.	Metre	300.00	58.00	17,400.00
41.03	MR	Supplying and Fixing of suitable size of MS clamp set suitable for holding submersible pump & 40 mm dia pipe assembly lowered in bore well including suitable drilled hole and nut bolts etc. complete as	Each	4.00	732.00	2,928.00
41.04	MR	Supplying and Fixing of following size of PVC insulated PVC sheathed Copper conductor flat submersible cable including fixing the cable with nylon tie along with GI pipes in existing borewell, connection with submersible pump cable with the help of water proof jointing kit provided with the pump, complete as required.				
		(a) 3 x 2.5 sqmm	Metre	150.00	123.00	18,450.00
		S/Fixing of 8 " dia MS cover with locking arrangement i/c drilling hole and s/f nut bolts etc.		2.00	1,032.00	2,064.00
41.05	MR	Openwell Submersible Monobloc Pump Set  S.I.T.C. of 7.5/5.5 (H.P./Kw) Openwell Submersible  Monobloc Pump Set comprising of Electrical Driven inline pumping with all accessories as per manufacturer's design. such as C.I. Base, S.S. /bronze impeller, shaft, mechanical seal, S.S. Shaft directly coupled to motor suitable for operation on 400/440 volts, 3 phase 50c/s A.C.Supply complete in the existing G.I.Pipelines fittingsi/c s/fixing motor starter suitable for this pump set i/c connections testing, commissing etc as reqd. ( Note: The suction/delievery pipe lines are not included in I	Set	2.00	53,701.00	264 322 00
		Total of sub-head (41.0) (Non DSR)				264,322.00
		CCTV SYSTEM				

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
42.01	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.				
	1.53.1	1 run of cable	Mtr.	1,230.00	57.00	70,110.00
42.02	1.21	Supply and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as				
	1.21.2	25 mm	Mtr.	595.00	145.00	86,275.00
42.03	MR36	1/2.8" Progressive Scan CMOS, PAL:1920 * 1080, 0.1 Lux/ F1.2 (0Lux, IR ON), 10~15 Meters (With Min. 24 units IR LED), 2 MP Fixed IR DOME CAMERA With Options Of 2.8mm, 4mm, 6mm Lens, IP66, POE with installation.	Each	8.00	6,488.00	51,904.00
42.04	MR37	1/2.8" Progressive Scan CMOS, PAL:1920 * 1080, 0.1 Lux/ F1.2 (0Lux, IR ON), 10~15 Meters (With Min. 24 units IR LED), 2 MP Fixed IR Bullet CAMERA With Options Of 2.8mm, 4mm, 6mm Lens, IP66, POE with installation.	Each	17.00	6,488.00	110,296.00
42.05	MR38	Supplying, installation, fixing, testing and commissioning of 16 ch Linux, H. 264 / H.265 NVR with Minimum 1080p / UXGA / 720p / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF rec. resolutions, 4 HDD slot supports upto 4 TB Each, RS 485 x 1 & USB2.0 x1, HDMI ,Local And Remote Access Over Internet In complete in all respect with installation (Make: - CP PLUS , Dahua ,Hikvision or equivalent )	Each	4.00	28,413.00	113,652.00
42.06	MR39	4 TB Surveillance Sata HDD (WD Purple , Seagate Surveillance or Equivalant)	Each	1.00	10,526.00	10,526.00
42.07	MR40	16 Port POE Switch (Cisco , Netgear , Dlink or Equivalant)	Each	1.00	17,716.00	17,716.00
42.08	MR41	Supply, installation, testing and commissioning of Independent 1 kVA UPS system with 230V single phase input and 230V Single phase output with all required accessories & battery bank for 30 mins back up with covered SMF battery and battery rack for all new required loads covered as required, including connections as per specifications etc.	Each	3.00	28,899.00	86,697.00
42.09	MR42	S.I.T.C.32" Color flat panel LED Monitor,Full HD Professional Series 1920 x 1080 resolution, inputs. 100-230VAC/50 Hz.	Each	3.00	21,743.00	65,229.00
		Total of sub-head (42.0) (DSR)				156,385.00
		I O OUI OI DUN IICUU (T#OU) (DDIN)	i l			

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
43		LIGHTNING CONDUCTOR				
43.01	6.2	Providing and fixing of lightning conductor finial, made of 25mm dia 300mm long, G.I tube, having single prong at top with 85mm dia 6mm thick G.I base plate including holes etc. complete as required.	Each	30.00	518.00	15,540.00
43.02	6.7	Providing and fixing G.I tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (for horizontal run )	Mtrs.	1,100.00	126.00	138,600.00
43.03	6.8	Providing and fixing G.I tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (for vertical run )	Mtrs.	245.00	197.00	48,265.00
43.04	6.4	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required.	Each	76.00	113.00	8,588.00
43.05	6.12	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	Each	14.00	121.00	1,694.00
43.06	5.4	Earthing with G.I. earth plate 600mm x 600mm x 6mm thick including accessories, and providing masonary enclosure with cover plate having locking arrangement and watering pipe of 2.7Mtr long etc. with charcoal/ coke and salt as required.	Set.	14.00	7,472.00	104,608.00
		Total of sub-head (43.0) (DSR)		-	-	317,295.00
44		D.G.Set and associated works				
44.01	A	D.G.Set and associated works  D.G.Set 25 KVA  Providing, Installing, Testing and Commissioning of 'Silent Type' Diesel Generating set alongwith having Prime Power Rating of 25 KVA, 415 volts at 1500 RPM, 0.8 lagging power factor at 415 V suitable for 50 Hz, 3 phase system & for 0.85 Load Factor and consisting of the followings				
	(a)	Diesel Engine:  Diesel engine 4 stroke water cooled, electric start, of suitable BHP at 1500 RPM suitable for above output of alternator at 40 Degree C, 50% RH & at 1000 Meter MSL and conforming to BS 5514, BS 649, IS 10000, capable of taking 10% over loading for one hour after 12 hours of continuous operation. The engine will be fitted complete with all the required				
	(b)	Engine mounted Instrument Panel fitted with and having digital display for following:  (i) Start-stop switch with key  (ii) Water temperature indication  (iii) Lubrication oil pressure indication  (iv) Lubrication oil temperature indication  (v) Battery charging indication  (vi) RPM indication  (vii) Over speed indication				

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		(viii) Low lub. Oil trip indication (ix) Engine Hours indication				
	(c)	Alternator:				
	(4)	Synchronous alternator rated at 25 KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 Degree C, 50% RH & at 1000 Meter MSL. The alternator shall be having SPDP enclosure, brushless, continuous duty, self-excited and self-regulated through AVR conforming to IS: 4722/BS 2613 suitable for tropical conditions and with class- E/H insulation				
	(d)	Base Frame & Foundation:				
		Both the engine and alternator shall be mounted on suitable base frame made of MS channel with necessary reinforcement which shall be installed on suitable cement concrete foundation and vibration isolation arrangement as per recommendations of manufacturer.				
	(e)	Fuel Tank:				
		Daily service fuel tank of minimum 60 liters capacity fabricated out of 3 mm thick M.S. sheet complete with all standard accessories and fuel piping between fuel tank and diesel engine with MS class 'C' pipes of suitable dia. Complete with valves, level indications & accessories as required as per				
	(f)	Exhaust System:  Dry exhaust mainfold with hospital exhaust silencer				
	(g)	and catalytic convertor.  Starting System:				
	(5)	12V/24V DC starting system comprising of starter motors: voltage regulator and arrangement for initial excitation complete with suitable nos. of batteries (25 plates, 180 Amp. Hour capacity lead acid type) as required as per specifications.				
	(h)	Accoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine & alternator, extraction, discharging hot air in to the atmosphere as per specifications & CPCB Engine & Alternator stands warranty for minimum period of 24 months or 5000 hours of operation				
		whichever earlier				
	В	AMF system for 25 KVA DG Set Part of DG.  Fabricating, Installing, Testing & Commissioning of automatic mains failure control including auto bypass panel, suitable for 25 KVA silent type DG set complete with relays, timers, set of CTs for metering & protection and energy analyser to indicate currents, phase and line voltages, frequency, power factor, KWH, KVARH & provision for overload, short circuit, restricted earth fault, under frequency, control cabling from AMF panel to diesel engine and elsewhere if required, all complete and inter locking including the following:				
	(a)	(i) 1 No. 63 415V, 4P MCCB of 35kA.				
	(b)	(ii) 2 Nos. 63 A, 415V 4P Contactor Auto/Manual/Test/Off selector switch				
	(c)	2 Nos over voltage relay, 2 Nos reverse power relay				
		and 2 Nos under voltage relay.				

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
	(d)	3 Sets of current transformers 15 P 10 accuracy for protection and 15 VA class-I for metering				
	(e)	Energy analyser unit to indicate current voltage frequency power factor and KWH				
	(f)	Indicating lamps for load on mains and load on set				
	(g)	Fuse for instruments				
	(h)	Battery charger, complete with transformer/ rectifier,				
		D.C. voltmeter and ammeter, selector switch for				
		trickle, off and boost and current adjustment.				
	(i)	Main supply failure monitor				
	(j)	Supply failure timer				
	(k)	Restoration timer				
	(1)	Control unit with three impulse automatic engine				
		start/stop and failure to start lockout.				
	(m)	Impulse counter with locking and reset facility.				
	(n)	ON/OFF/Control circuit switch with indicator				
	(o)	Audio/Video annunciation for				
		(i) High water temperature				
		(ii) Low lubricating oil pressure				
		(iii) Engine over speed				
		(iv) Engine fails to start		1.00	569,752.00	569,752.00
		(v) Full load/maximum load warning				
44.02	MD	0 1 1 1 5 1 4 1 5 75		4.00	1 242 00	5 269 06
44.02	MR	Supplying and fixing exhaust gas piping of 75mm		4.00	1,342.00	5,368.00
		dia. welded black MS, B Class pipe conforming to				
		IS:3589 cut to required lengths and installed with				
		necessary bends, supports and clamps, anti-vibration				
		mountings, insulation of exhaust system with mineral				
		wool/Rockwool, 50 mm thick wiremesh & aluminum				
		cladding etc., as required as per specifications.		+		575,120.00
	-	Total of sub-head (44.0) (Non DSR)				373,120.00