



**Telecommunications Consultants India Ltd.**

**(A Govt. of India Enterprise)**

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Aizawl - 796012 , Mizoram



CIN: U74999DL1978GO1008911

No. TCIL/CIVIL/PD(NE)/EMRS-DARLAWN/2024-25/03

Date : 22.07.2024

## **CORRIGENDUM NO. – 1**

Date of Publishing Corrigendum No. 1: - 22.07.2024

NIT No: TCIL/CIVIL/PD(NE)/EMRS-DARLAWN/2024-25/03 Dated 03.07.2024

Name of work:-Construction of Eklavya Model Residential School (EMRS) at Block - Darlawn, District - Aizawl in the State of Mizoram			
Sl. No.	Description of Clause	Existing Clause	Amended Clause
<b>VOLUME-I Technical Bid</b>			
1	<b>1.1.11 - Last Date &amp; Time for submission of Online Bid documents</b>	23.07.2024; 1500 Hrs	<b>06.08.2024; 1500 Hrs</b>
2	<b>1.1.12 - Online opening of Technical bid</b>	25.07.2024; 1500 Hrs.	<b>08.08.2024; 1500 Hrs.</b>
3	<b>NIT NOL-2 Financial Bid</b>	PAGE – 6 Summary of Cost	<b>PAGE – 6 Summary of Cost- As Attached</b>
		MICROSOFT PDF FORMAT	<b>MICROSOFT EXCEL FORMAT</b>
<b>VOLUME-6</b>			
4	<b>Detailed Estimate</b>	Detailed Estimate EMRS Darlawn, Aizawl, Mizoram	Detailed Estimate EMRS Darlawn, Aizawl, Mizoram

**Project Director (NE)**

TCIL/CIVIL/PD(NE)/EMRS-DARLAWN/2024-25/03 DATED: 03.07.2024

<b>"Construction of EMRS (Eklavya Model Residential School) at Block – Darlawn, District – Aizawl in the State of Mizoram"</b>							
NIT No. TCIL/CIVIL/PD(NE)/EMRS-DARLAWN/2024-25/03 DATED: 03.07.2024							
<u>Summary of Cost</u>							
Name of Bidder: M/s							
S.No.	Description	BOQ Cost in INR	Percentage quoted by the tenderer above/ below/ at par the total			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	40,89,50,342.00	Above/ Below/ At par				
b)	Non DSR Items	2,73,77,595.00					
c)	Total (a+b)	43,63,27,937.00					
NOTE:							
1. The tendered shall furnish their rate in terms of % above/ below/ at par against Overall Estimated Cost.							
2. If the tenderer choose 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 the works, as per actuals, on receipt of proof of payment, subject to a ceiling of Rs 1,74,53,117/- (i.e., @4% on estimated Construction cost of works), 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) at BLOCK -Darlawn  
DISTRICT- Aizawl, STATE- Mizoram

## SUMMARY SHEET

S.No	PARTICULARS	AMOUNT (IN RS)	
		DSR	NON DSR
<b>CIVIL WORKS</b>			
1	Earth Work	71,67,506.79	
2	Concrete Work	88,20,942.63	
3	Reinforced Cement Concrete	10,08,97,505.61	
4	Masonry Work	1,87,78,494.40	
5	Stone Work	-	
6	Cladding Work	33,69,302.72	
7	Wood & PVC Work	40,51,953.11	
8	Steel Work	1,02,91,318.01	
9	Flooring	1,26,73,757.75	
10	Roofing	1,83,103.19	
11	Finishing	1,82,29,371.38	
12	Aluminium Work	1,82,963.00	
13	Water Proofing	74,18,742.15	
14	Road Work	57,50,084.48	
15	Non-Schedule Items		27,12,944.22
<b>TOTAL AMOUNT (DSR)</b>		<b>19,78,15,045.21</b>	
<b>TOTAL AMOUNT (NON DSR)</b>			<b>27,12,944.22</b>
<b>Add enhancement of 77.72% due to increase in cost index i.e. nearest location</b>		<b>15,37,41,853.14</b>	
<b>GRAND TOTAL (CIVIL WORKS) (In Rs)</b>		<b>35,15,56,898.35</b>	<b>35,42,69,842.57</b>
<b>PLUMBING WORKS</b>			
16	Sanitary Installations	20,26,777.89	2,35,867.91
17	Drainage Installations	2,61,738.12	14,02,893.34
18	Water supply Installations	14,46,179.70	60,506.74
19	External Sewage Drainage System	28,55,389.38	
20	External Storm Water Drainage System	20,79,504.36	
21	External Fresh Water Supply System	6,15,700.24	
22	Bore well	4,07,058.53	
<b>TOTAL AMOUNT (DSR)</b>		<b>96,92,348.21</b>	
<b>TOTAL AMOUNT (NON DSR)</b>			<b>16,99,267.99</b>
<b>Add enhancement of 77.72% due to increase in cost index i.e. nearest location</b>		<b>75,32,893.03</b>	
<b>GRAND TOTAL (PLUMBING WORKS) (In Rs)</b>		<b>1,72,25,241.24</b>	<b>1,89,24,509.23</b>
<b>FIRE FIGHTING WORKS</b>			
23	Piping & Valves	3,09,835.17	
24	Fire Hydrant Accessories	1,04,278.70	
25	Fire Extinguishers & Miscellaneous Items		33,958.19
<b>TOTAL AMOUNT (DSR)</b>		<b>4,14,113.87</b>	
<b>TOTAL AMOUNT (NON DSR)</b>			<b>33,958.19</b>
<b>Add enhancement of 77.72% due to increase in cost index i.e. nearest location</b>		<b>3,21,849.30</b>	
<b>GRAND TOTAL (FIRE FIGHTING WORKS) (In Rs)</b>		<b>7,35,963.18</b>	<b>7,69,921.37</b>
<b>ELECTRICAL WORKS (Internal)</b>			
26	Internal Wiring	58,37,413.67	
27	Distribution Boards & MCB's	9,15,550.49	13,189.60
28	Telephone, Television & Data System (socket,wiring & conducting only)	2,49,475.53	297.51
29	Light Fixtures & Fan	4,31,407.31	12,89,512.86
<b>TOTAL AMOUNT (DSR)</b>		<b>74,33,847.01</b>	
<b>TOTAL AMOUNT (NON DSR)</b>			<b>13,02,999.97</b>
<b>Add enhancement of 77.72% due to increase in cost index i.e. nearest location</b>		<b>57,77,585.90</b>	
<b>GRAND TOTAL (ELECTRICAL WORKS INTERNAL) (In Rs)</b>		<b>1,32,11,432.90</b>	<b>1,45,14,432.88</b>
<b>ELECTRICAL WORKS (External)</b>			

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn  
DISTRICT- Aizawl, STATE- Mizoram

## SUMMARY SHEET

S.No	PARTICULARS	AMOUNT (IN RS)	
		DSR	NON DSR
30	LT Panel, Feeder Pillar and Capacitor Panels		7,09,150.78
31	LT Cables	8,86,935.46	15,07,620.63
32	Earthing	5,07,687.03	
33	Pole Erection	3,72,446.27	
34	External Lighting System	8,58,406.06	19,20,332.91
35	Pumps		1,84,438.07
36	CCTV System	84,369.59	1,43,330.63
37	Lightning Conductor	3,43,667.45	
38	25 KVA D.G.Set and associated works		8,42,773.27
<b>TOTAL AMOUNT (DSR)</b>		<b>30,53,511.85</b>	
<b>TOTAL AMOUNT (NON DSR)</b>			<b>53,07,646.30</b>
<b>Add enhancement of 77.72% due to increase in cost index i.e. nearest location</b>		<b>23,73,189.41</b>	
<b>GRAND TOTAL (ELECTRICAL WORKS EXTERNAL) (In Rs)</b>		<b>54,26,701.27</b>	<b>1,07,34,347.57</b>
<b>Equipment etc. for Kitchen &amp; Pantry</b>			
39	Equipment for Kitchen & Pantry, Kitchen ventilation system and Kitchen LPG system	-	24,26,215.88
<b>TOTAL AMOUNT (DSR)</b>		-	
<b>TOTAL AMOUNT (NON DSR)</b>			<b>24,26,215.88</b>
<b>GRAND TOTAL (Equipment etc. for Kitchen &amp; Pantry) (In Rs)</b>			<b>24,26,215.88</b>
<b>Furniture</b>			
40	Classroom dual desks, office table, 12-seater meeting table, library table, computer work station, open book shelf, glass door storage, sofa, steel bed, SS dining table, lab stool, executive chairs, metal locker, writing board etc	-	1,25,02,501.00
<b>TOTAL AMOUNT (DSR)</b>		-	
<b>TOTAL AMOUNT (NON DSR)</b>			<b>1,25,02,501.00</b>
<b>GRAND TOTAL( Furniture) (In Rs)</b>			<b>1,25,02,501.00</b>
<b>Total Amount with 12% GST (In Rs) (A)</b>			<b>41,41,41,770.50</b>
<b>Total Amount with 18% GST using multiplying factor of (118/112) on A (in Rs) (C)</b>			<b>43,63,27,937.00</b>
Add ESI & EPF @ 4% on C			<b>1,74,53,117.00</b>

**SCHEDULE OF QUANTITIES**

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		<b>CIVIL WORKS</b>				
1.0	2	<b>Earth Work</b>				
	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:				
	2.1.1	All kinds of soil	sqm	8898	107.00	9,52,069.94
1.01	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50m and for all lift as directed by Engineer-in-charge.				
1.01.1	2.6.1	All kinds of soil	Cum	6656	205.45	13,67,558.86
1.02	2.7	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50m and lift upto 1.5 m, as directed by Engineer-in-charge.				
1.02.1	2.7.1	Ordinary Rock	Cum	482	412.95	1,99,176.76
1.02.02	2.7.3	Hard rock (blasting prohibited)	Cum	30	1184.30	35,589.99
1.03	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 lift, including getting out the excavated soil and disposal of surplus excavated soil as directed by Engineer-in-charge.				
1.03.1	2.8.1	All kinds of soil.	Cum	2830	286.85	8,11,857.28
1.04	2.9	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soils as directed within a lead of 50m.				
1.04.01	2.9.1	Ordinary Rock	Cum	45	523.50	23,597.94
1.04.02	2.9.3	Hard rock (blasting prohibited)	Cum	45	1258.60	56,734.23
1.05	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and for all lift.	Cum	10331	253.95	26,23,669.87
1.06	2.25 (a)	Excavating, supplying, stacking and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20cm in foundation trenches, plinth, sides of foundation trenches, etc. as directed by Engineer-in-charge.	Cum	90	368.65	33,235.46
1.07	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	295	2161.20	6,36,483.55
1.08	2.31	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50m outside the periphery of the area to be cleared.	Sqm	29485	14.50	4,27,532.92
1.09	2.36	Extra for levelling & neatly dressing of disposed soil completely as directed by Engineer-in-charge.	Cum		76.70	
		<b>Total of sub-head (1.0)</b>				<b>71,67,506.79</b>
2.0	4	<b>Concrete Work</b>				

**SCHEDULE OF QUANTITIES**

**Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram**

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
2.01	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :-				
	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		6326.05	-
	4.1.10	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources: 10 graded stone aggregate 40 mm nominal size derived from natural sources)	Cum	891	6050.65	53,92,201.48
	4.1.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	195	7365.15	14,36,312.52
2.02	Derived from basic rates of DSR 2021	Providing and laying broken autoclaved aerated cement (AAC) blocks and/or bats (light weight, having density 550-650 kg/m <sup>3</sup> ) of nominal size 25mm to 65mm in the sunken portion of toilets upto floor five level all complete as per the direction of Engineer-in-charge.	Cum	174	2488.20	4,33,690.02
2.02	4.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of				-
2.02.1	4.2.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	26	9375.20	2,39,478.00
2.03	4.3	Centering and shuttering including strutting, propping etc. and removal of form work for :-				-
2.03.1	4.3.1	Foundations, footings, bases for columns	Sqm	1174	307.95	3,61,382.73
2.04	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	554	370.85	2,05,617.85
2.05	4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in	Sqm	553	113.85	62,953.08
2.06	4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	1011	681.65	6,89,306.95
		<b>Total of sub-head (2.0)</b>				<b>88,20,942.63</b>
3.0	5	<b>Reinforced Cement Concrete</b>				
3.01	5.9	Centering and shuttering including strutting, propping etc. and removal of form work for :-				
3.01.1	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	1761	307.95	5,42,305.46
3.01.2	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	1316	669.55	8,81,299.00
3.01.3	5.9.3	Suspended floors, roofs, landings, balconies and access platform	Sqm	6180	766.55	47,37,348.70
3.01.4	5.9.4	Shelves (Cast in situ)	Sqm	129	766.55	99,054.70
3.01.5	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	11469	608.35	69,77,260.37
3.01.6	5.9.6	Columns, Pillars, Piers, Abutments, Posts and	Sqm	6437	804.25	51,76,982.38
3.01.7	5.9.7	Stairs, (excluding landings) except spiral-staircases	Sqm	149	657.75	97,843.55

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
3.01.7A	5.9.14	Extra for shuttering in circular work(20% of respective centering and shuttering items)	Sqm		160.85	-
3.01.8	5.9.13	Vertical and horizontal fins individually or forming box louvers band, fascia and eaves boards	Sqm		1100.40	-
3.01.9	5.9.15	Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	Sqm	26	307.95	7,866.21
3.01.10	5.9.16	Edges of slabs and breaks in floors and walls				-
	5.9.16.1	Under 20 cms wide	Metre	466	181.90	84,728.70
3.01.11	5.9.19	Weather shade, Chajjas, corbels etc., including edges	Sqm	1083	814.95	8,82,881.43
						-
	5.16	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete in shelves, including setting in cement mortar 1:3 (1cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but , excluding the cost of reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	Cum	39	18644.60	7,28,387.55
						-
3.02	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level				-
	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	131266	89.65	1,17,68,037.56
						-
3.03	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level				-
	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	332992	89.65	2,98,52,701.73
						-
3.04	5.30	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	Metre	21652	64.70	14,00,891.23
						-
3.05	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately.				-
	5.33.1	<b>All works upto plinth level</b>				-
	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	1253	7997.30	1,00,21,796.82
						-
	5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum	135	8599.35	11,62,905.14
						-
	5.33.2	<b>All works above plinth level upto floor V level.</b>				-
	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	Cum	2333	10080.85	2,35,23,652.96
						-
	5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	Cum	131	10221.70	13,36,221.76
						-
	Derived from DSR 2021 basic rates	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	Cum	159	-229.85	(36,608.89)

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
3.07	5.35	Add for using extra cement in the items of design mix over and above the specified cement content therein.	quintal	1271	688.45	8,75,266.93
3.08	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	15	747.25	11,227.99
3.09	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				-
	5.44.1	The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self- centering arrangement that freely rotates / moves in all directions. The Self - centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in- Charge. (Material shall confirm to ASTM 6063)				-
	5.44.1	Floor Joint of 100 mm gap	Metre	15	5800.15	87,151.60
3.10	5.45	Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement. (Material				-
	5.45.1	Wall Joint of 100 mm gap	Metre	66	4835.50	3,19,690.86
3.11	5.46	Providing and fixing of expansion joint system of approved make and manufactures for various roof locations as per approved drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members with, self aligning and self centering 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				-



## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		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 resist damage or deterioration from the impact of falling ice, exposure to UV, airborne contaminants and occasional foot traffic from maintenance personnel. Provision of Moisture Barrier Membrane in the Joint System to have water tight joint is mandatory requirement. (Material shall conform to ASTM 6062)				-
	5.46.1	Roof Joint of 100 mm gap	Metre	66	5424.20	3,58,611.76
		<b>Total of sub-head (3.0)</b>				<b>10,08,97,505.61</b>
4.0	6	<b>Masonry Work</b>				
4.01	6.1	Brick work with common <b>burnt clay</b> F.P.S. (non modular) bricks of class designation 7.5 in <b>foundation</b> and plinth in:				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum		6658.25	-
4.02	6.1 (Modified)	Brick work with <b>non modular fly ash bricks</b> conforming to IS:12894, class designation 10 average compressive strength in <b>foundation</b> and				
	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	126	6046.20	7,63,128.99
4.03	6.4	Brick work with common <b>burnt clay</b> F.P.S. (non modular) bricks of class designation 7.5 in <b>superstructure</b> above plinth level up to floor V level in all shapes and sizes in :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	272	8288.35	22,54,150.00
OTHER THAN TOILET	6.38	Providing and laying autoclaved aerated concrete AAC blocks masonry with 100 mm/125 mm thick with grade 1 AAC blocks of density 551 to 650 kg/cum confirming to IS:2185 (Part-3) 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	374	8890.80	33,26,414.33
4.04	6.47	Providing and laying autoclaved aerated concrete blocks masonry with 150mm/230mm/300 mm thick with grade 1 AAC blocks of density 551 to 650 kg/cum confirming 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	Cum	1617	6994.15	1,13,07,936.70
4.05	6.13	<b>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.</b>				
ONLY TOILET	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	1020	1018.05	10,38,663.90
4.06	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	1020	86.45	88,200.48
		<b>Total of sub-head (4.0)</b>				<b>1,87,78,494.40</b>

**SCHEDULE OF QUANTITIES**

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
5.0		<b>Stone Work</b>				
5.01	7.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :				
	7.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum		6653.45	-
5.02	7.2	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at sindow sills, ceiling level and the like.				
	7.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum		8275.70	-
		<b>Total of sub-head (5.0)</b>				-
6.0	8	<b>Cladding Work</b>				
6.01	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc.				
	8.2.2	Granite of any colour and shade				
6.01.1	8.2.2.1	Area of slab upto 0.50 sqm	Sqm	14	4679.35	67,498.31
6.01.2	8.2.2.2	Area of slab over 0.50 sqm	Sqm	99	4425.35	4,38,861.73
6.02	8.4	Extra for fixing marble /granite stone, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete	Metre	66	475.55	31,440.18
6.03	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	Sqm	2663	1063.45	28,31,502.49
		<b>Total of sub-head (6.0)</b>				<b>33,69,302.72</b>
7.0	9	<b>Wood Work &amp; PVC Work</b>				
7.01	9.12	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	72	148.50	10,710.35
7.02	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both				
	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	430	2015.75	8,66,241.24
7.03	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	Sqm	436	401.40	1,74,908.74
7.04	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	915	159.35	1,45,816.11

**SCHEDULE OF QUANTITIES**

**Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram**

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
7.05	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	11977	181.00	21,67,841.57
7.06	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	180	173.95	31,364.75
7.07	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	1965	-39.05	(76,741.76)
7.08	9.96	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete :				-
	9.96.1	300x16 mm	Each	20	260.30	5,084.56
	9.96.2	250x16 mm	Each	473	234.90	1,11,180.78
7.09	9.68	Providing and fixing oxidised M.S. casement stays (straight peg type) with necessary screws etc. complete.				-
	9.68.1	300 mm weighing not less than 200 gms	Each	2248	59.25	1,33,185.24
7.10	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	Each	65	856.30	55,326.16
7.11	9.85 (M)	Providing and fixing bright finished brass and/or customised M.S. casement window fastener with necessary screws etc. complete	Each	2248	76.30	1,71,511.12
7.12	9.97	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :				-
	9.97.1	300x10 mm	Each	494	117.65	58,159.94
	9.97.4	150x10 mm	Each	358	75.55	27,017.65
7.13	9.100	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				-
	9.100.1	125 mm	Each	1017	60.05	61,085.46
	9.100.2	100 mm	Each	3	53.25	160.02
7.14	9.101	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete				-
	9.101.2	Twin rubber stopper	Each	362	62.25	22,542.01
7.15	9.154	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near opening, with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including	Kg	649	133.35	86,559.14
		<b>Total of sub-head (7.0)</b>				<b>40,51,953.11</b>
8.0	10	<b>Steel Work</b>				

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
8.01	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	Sqm	65	9397.35	6,07,169.59
						-
8.02	10.11.2 (M)	Providing and fixing factory made M.S. Tubular shutter for doors, windows and ventilators side /top /centre hung, with Z / T and like tubular profile of required size, made of 1.60mm thick M.S. sheet, joints mitred and flash butt welded, including providing and fixing 95mm long ball type hinges of diameter 16mm, including priming coat of approved steel primer, but excluding the cost of other fittings, all complete as per approved design (sectional weight of only M.S. tubular	kg	10291	109.15	11,23,266.02
						-
8.03	10.12 (Modified)	Providing and fixing steel beading of size 10 x 10 x 1.6 mm (box type), approved shape and section with screws in steel doors, windows, ventilators, composite units and M.S. tubular frame etc.	Metre	1626	45.95	74,731.11
						-
8.04	10.13	Providing and fixing T-iron frames for doors of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				-
8.05	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	9041	114.65	10,36,549.93
						-
8.06	10.15 (M)	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				-
8.07	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	22309	146.55	32,69,344.51
						-
8.08	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete				-
	10.16.1	Hot finished welded type tubes	kg	4658	154.90	7,21,521.48
						-
8.09	10.25	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required				-
	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	kg	150	102.25	15,363.83
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	5286	142.30	7,52,206.17
						-
8.10	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		157.15	-
						-

**SCHEDULE OF QUANTITIES**

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S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
8.11	10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered	kg	1968	612.25	12,05,136.51
8.12	10.29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.				-
	10.29.2	Stainless steel (grade 304) wire gauze of 0.5 mm dia wire and 1.4 mm aperture on both sides	Sqm	612	971.55	5,94,149.48
8.13	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows all complete with -				-
	10.30.1	4.0 mm thick glass panes (weights not less than 10 kg/sqm)	Sqm	873	940.30	8,20,878.20
	10.30.2	5.0 mm thick glass panes (weights not less than 12.50 kg/ sqm)	Sqm	57	1243.50	71,001.18
		<b>Total of sub-head (8.0)</b>				<b>1,02,91,318.01</b>
9.0	<b>11</b>	<b>Flooring</b>				
9.01	11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of stone etc. complete.				
	11.3.1	40 mm thick with 20 mm nominal size stone aggregate	Sqm	18	545.00	9,826.84
9.02	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	90	79.50	7,167.28
9.03	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 : Note : Qty. shall be executed in marble strips of				
	11.23.3	Agaria White	Sqm	159	2608.15	4,15,407.74
9.04	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	3046	1706.60	51,98,132.62
9.05	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	344	2038.55	7,01,444.00
9.06	11.31	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Metre	601	157.35	94,572.07
9.07	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	957	1225.10	11,72,592.54

**SCHEDULE OF QUANTITIES**

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S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
9.08	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 matching pigments etc.,				-
	11.41.2	Size of Tile 600x600 mm	Sqm	2034	1416.65	28,82,155.35
9.09	11.46	Providing and laying full body (Homogeneous) Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching				-
	11.46.2	Size of Tile 600x600 mm	Sqm	219	1466.50	3,21,714.83
9.10	11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc.	Sqm	1977	855.90	16,92,446.97
	11.8	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	Sqm	1827	69.30	1,26,620.19
9.11	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer-in-charge	Cum		1309.00	-
9.12	16.89	Providing and laying matt finished vitrified tile of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-	Sqm	33	1250.75	41,345.60
9.13	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-	Sqm	6	1719.00	10,331.71
		<b>Total of sub-head (9.0)</b>				<b>1,26,73,757.75</b>
10.0	12	<b>Roofing</b>				
10.01	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	180	266.60	48,070.38

**SCHEDULE OF QUANTITIES**

**Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram**

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
10.02	12.50	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) of total coated thickness 0.50 mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05 mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses	Sqm	144	671.55	96,869.21
10.03	12.51	Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness 0.50 mm (base metal of minimum 0.45mm thickness with total coating thickness of 0.05 mm) 0.50 mm with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete				-
	12.51.2	Flashings/ Aprons.( Upto 600 mm)	Metre	60	412.85	24,813.52
	12.51.6	Gutter (600 mm over all girth)	Metre	12	1110.60	13,350.08
		<b>Total of sub-head (10.0)</b>				<b>1,83,103.19</b>
11.0	<b>13</b>	<b>Finishing</b>				
11.01	13.4	12 mm cement plaster of mix				
	13.4.2	1:6 (1 cement: 6 coarse sand)	Sqm	17801	294.35	52,39,726.08
11.02	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	565	339.10	1,91,580.72
11.03	13.16	6 mm cement plaster of mix				
	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	8931	253.05	22,60,066.91
11.04	13.18	Neat cement punning	Sqm		67.80	-
11.05	13.11	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand)	Sqm	8372	442.75	37,06,857.00
11.06	13.21	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers	per bag of 50kg cement used in the mix	691	60.55	41,851.22
	13.27	Extra for lining out plaster to imitate stone or concrete blocks walling.	sqm		93.75	-
11.07	13.37	White washing with lime to give an even shade :				
	13.37.1	New work (three or more coats)	Sqm	421	32.45	13,652.40
11.08	13.41	Distemping 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	27218	162.55	44,24,227.92
11.09	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 @ 2.20 kg/10 sqm)	Sqm	9217	162.35	14,96,346.66
11.10	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	421	55.50	23,350.02

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S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
11.11	13.52	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.				-
	13.52.2	On concrete work	sqm	2102	198.40	4,17,131.65
11.12	13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				-
	13.61.1	Two or more coats on new work	Sqm	3154	131.45	4,14,580.80
		<b>Total of sub-head (11.0)</b>				<b>1,82,29,371.38</b>
12.0	21	<b>Aluminium Work</b>				
12.01	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all				
	21.1.1	For Fixed Portion				
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	165	466.30	77,071.58
12.02	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				-
	21.1.2.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	96	564.80	54,313.88
12.03	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	21.3.2	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/ sqm)	Sqm	9	1325.55	11,950.43
	21.3.3	With float glass panes of 8 mm thickness (weight not less than 20 kg/ sqm)	Sqm	15	1496.15	22,480.78
12.04	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the				
	21.4.1	With stainless steel cover plate minimum 1.25 mm thickness	Each	6	2448.85	14,718.32
12.05	21.13	Providing and fixing Brass 100mm mortice latch and lock with 6 levers without pair of handles (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete	Each	3	449.55	1,350.97
	21.16	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-in-charge				
	21.16.2	Powder coated minimum thickness 50 micron aluminium	Each	12	89.60	1,077.05
		<b>Total of sub-head (12.0)</b>				<b>1,82,963.00</b>



## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
13.0	22	<b>Water Proofing</b>				
13.01	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of:				-
		(i) Ist course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface.				-
		(ii) IInd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface.				-
		(iii) IIIrd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.				-
		(iv) IVth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).	Sqm	1298	774.25	10,05,150.54
						-
13.02	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following				-
		a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.				-
		b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of				-
		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				-
		d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.				-
		e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test."All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				-
	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm	3836	1522.95	58,42,148.81
						-
						-

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
13.03	22.23	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance				-
	22.23.1	For vertical surface two coats @ 0.70 kg per sqm	Sqm	899	406.25	3,65,031.81
	22.23.2	For horizontal surface one coat @ 1.10 kg per sqm.	Sqm	663	311.50	2,06,410.98
						-
		<b>Total of sub-head (13.0)</b>				<b>74,18,742.15</b>
14.0	16	<b>Road Work</b>				
14.01	16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus	Sqm	11834	180.50	21,36,087.65
14.02	16.11	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete	Sqm	218	821.95	1,78,834.01
14.03	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	99	141.80	14,062.30
14.04	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 length	804	7.50	6,029.08
14.05	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	54	623.80	33,743.03
14.06	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-	Sqm	150	951.00	1,42,894.88
						-

**SCHEDULE OF QUANTITIES**

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
14.07	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	Cum	27	8613.55	2,32,965.09
						-
14.08	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	Cum	99	8277.55	8,20,884.21
						-
14.09	16.76	Deduct for using of M-20 grade concrete instead of M-25 grade concrete in C.C. pavement.	Cum	-99	191.10	(18,951.38)
						-
14.10	16.3	Supplying and stacking at site.				-
	16.3.2	63 mm to 45 mm size stone aggregate	Cum	110	1624.50	1,78,188.11
						-
14.11	16.3.3	53 mm to 22.4 mm size stone aggregate	Cum	110	1837.25	2,01,524.23
						-
14.12	16.3.7	Stone screening 11.2 mm nominal size (Type B)	Cum		2065.70	-
						-
14.13	16.3.9	Good earth	Cum	1830	624.55	11,43,011.65
						-
14.14	16.3.10	Moorum	Cum	126	888.30	1,12,117.94
						-
14.15	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	269	865.80	2,32,866.37
						-
14.16	16.7	Brick edging in full brick width and half brick depth including excavation, refilling and disposal of surplus earth lead upto 50 metres				-
	16.7.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Mtr.	1557	179.50	2,79,421.85
						-
14.17	16.66	Excavating holes upto 0.10 cum, including getting out the excavated soil, then returning the soil as deposited 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				-
	16.66.1	All kind of soil	Cum	24	29.95	720.03
14.18	16.6	Supplying, stacking and Spreading 6 mm thick red bajri, watering and rolling complete including preparation of the surface and rolling	Sqm			-
	16.6.1	With road roller/ hand roller		2554	21.80	55,685.43
		<b>Total of sub-head (14.0)</b>				<b>57,50,084.48</b>
15.00		<b>Non-Schedule Items - Civil</b>				
15.01	MR 1	Providing signage viz display/name plate and like of required size made out of 20 guage thick stainless steel (304 grade) including engraved subject matter, message (Hindi/English and / or bilingual), symbols, borders and logo etc. The engraved letter, borders etc. to be furnished with paint etc. of required colour scheme and the plate to be fixed to wooden/wall surface with 25mm	Sq. inch	2855	9.00	25,694.03

**SCHEDULE OF QUANTITIES**

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
15.02	MR 2	Providing and fixing factory made prelaminate flush door comprises core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters conforming to IS: 2202 (part 1) followed with machine pressed 1.00mm thick lamination on both faces of shutter in required finish and shade with suitable adhesive including providing and fixing 3 to 5 mm thick teak lipping along edges of shutter all complete as per direction of Engineer-in- charge. a) 35 mm thick including ISI marked Stainless Steel butt hinges (heavy weight) 100mm x 60mm x	Sqm	523	5050.00	26,40,625.28
15.03	MR 3	Providing & fixing G.I. chicken wire mesh of nominal size upto 20mm having 24 gauge thick with G.I. nails etc. to wall surface of dissimilar material viz RCC and brick work etc all complete	Sqm	301	155.15	46,624.90
		<b>Total of sub-head (15.0) (Non DSR)</b>				<b>27,12,944.22</b>
<b>PLUMBIN</b>						
16.0		<b>Sanitary Installation (As per D.S.R.)</b>				
16.01	8.10	Providing & fixing stone slab table rubbed, edges rounded and polished of size 75 X 50 cm deep and 1.8 cm thick fixed in urinal 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 aggregste 6mm nominal size) as per Engineer-in-charge and finished smooth				
	8.10.2	Granite Stone of approved shade	sqm	5	3542.85	15,970.19
16.02	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	Kitchen Sink without drain board				
	17.10.2.2	610X460 mm bowl depth 200mm.	Each	47	3337.85	1,55,476.47
16.03	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				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	51	5540.55	2,83,053.12
16.04	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 Euroean type W.C. of quality and make as approved by Engineer - in-charge	Each	51	299.35	15,293.06
16.05	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
	17.70.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms.	Each	83	325.10	26,866.79
16.06	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	18	3257.86	58,742.21
16.07	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	113	204.70	23,068.28

**SCHEDULE OF QUANTITIES**

**Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram**

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
16.08	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	Each			-
	17.7.4	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap		140	1679.60	2,34,706.42
						-
16.09	17.28	Providing & fixing PVC waste pipe for sink including PVC waste fitting Complete				-
	17.28.2	Flexible Pipe				-
	17.28.2.1	32mm Dia	Each	146	104.35	15,208.99
						-
16.10	17.34	Providing and fixing toilet paper holder :				-
	17.34.1	C.P. brass	Each	39	680.80	26,596.78
						-
16.11	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions				-
	18.21.2	45 cm length				-
	18.21.2.1	15 mm nominal bore	Each	398	85.20	33,925.14
						-
16.12	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				-
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580 x 440 mm with integral type foot rests	Each	77	5781.35	4,43,032.51
						-
16.13	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	Each	183	96.75	17,735.64
						-
16.14	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour				-
	17.73.2	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	140	600.35	83,892.59
						-
16.15	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				-
	18.49.1	15mm nominal bore	Each	113	434.20	48,931.35
						-
16.16	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	269	715.05	1,92,320.51
						-
16.17	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931				-
	18.52.1	15 mm nominal bore	Each	237	594.75	1,41,197.72
						-
16.18	18.53	Providing and fixing C.P. brass angle valve for basin mixer and points of approved quality conforming to IS:8931				-
	18.53.1	15 mm nominal bore	Each	397	500.35	1,98,478.74
						-
16.15	18.64	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	Each	116	106.15	12,281.37
						-
		<b>Sanitary Installations work (Non-Scheduled Items)</b>				-
16.16	MR 4	Providing and fixing U-shaped stainless steel grab bar (for differently abled person) of size 600mm wall mounted, movable (horizontally and vertically) with necessary dash fastener etc. all complete. (Basic rate of material shall not be less than Rs. 3000 / m)	Each	6	5700.00	34,258.71
						-
16.17	MR 5	Providing and fixing 600 x 450 mm beveled edge mirror of superior glass (of approved quality) fixed with stainless steel studs, complete with cutting, making holes, studs, all fittings, screws, washers and making good the walls.	Each	116	850.00	98,343.53

**SCHEDULE OF QUANTITIES**

**Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram**

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
16.18	MR 6	Providing & fixing stainless steel robe plate/pegs (hook) having three pegs (hook) in one strip (weight shall not be less than 120 grams) of superior quality with necessary screws etc. complete.	Each	222	281.00	62,489.09
						-
16.19	MR 7	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				-
		15 mm nominal bore	Each	39	828.80	32,378.69
						-
16.20	MR 8	Providing & fixing stainless steel butterfly robe pegs (hook) having three hooks of superior quality with necessary screws etc. complete.	Each	41	207.00	8,397.89
						-
		<b>Total of sub-head (16.0) (DSR)</b>				<b>20,26,777.89</b>
		<b>Total of sub-head (16.0) (Non DSR)</b>				<b>2,35,867.91</b>
						-
17.0		<b>Internal Drainage Installations (As per D.S.R.)</b>				
						-
17.01	18.58	Providing and fixing PTMT grating of approved quality and colour				
	18.58.1	Circular type				
	18.58.1.2	125 mm nominal dia with 25mm waste hole.	Each	422	45.25	19,105.62
						-
17.02	12.41	Providing & fixing on wall face unplasticised - Rigid PVC rain water pipes conforming to IS:13592 Type A including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion. (i)Single socketed pipes.				
	12.41.2	110 mm diameter	Metre	454	319.75	1,45,095.40
						-
17.03	12.42.	Providing, fixing on wall face unplasticised - PVC moulded fittings /accessories for unplasticised - Rigid PVC rain water pipes conforming to IS ; 13592 Type A including jointing with seal ring conforming to IS ; 5382 leaving 10 mm gap for thermal expansion.				
	12.42.1.2	Coupler -110 mm diameter	Each	111	119.95	13,337.31
	12.42.5.2	Bend -87.5 deg -110 mm diameter	Each	75	132.00	9,916.99
	12.42.6.2	Shoe -110mm shoe	Each	75	115.95	8,711.18
						-
17.04	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	212	309.50	65,571.62
						-
17.05	MR 9	Providing and fixing in position of ISI marked UV stabilized uPVC pipes Type-B for soil, waste, and vent including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion. (i)Single socketed pipes.				
		110 mm dia (Wall Thickness - 3.2 to 3.8 mm)	Metre	2216	536.00	11,87,935.79
						-
17.06	MR 10	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	51	225.00	11,494.70
						-
17.07	MR 11	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	140	334.50	46,742.85
						-

**SCHEDULE OF QUANTITIES**

**Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram**

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
17.08	MR 12	Providing and fixing uPVC floor drain with uPVC reducing elbow including all fitting and accessories all complete				-
		110 mm OD x 63 mm OD	Each	422	175.00	73,889.13
17.09	MR 13	Providing and fixing of uPVC Waste pipes 6 kg/cm2 (IS: 4985:2000) including with all fittings e.g. couplings, tees, bends, reducers and screwed adoptors jointing with solvent cement as per Manufacturer's specifications complete including cutting holes or chases in wall and making good the same wherever required. (Waste pipe from				-
		40 mm OD	Metre	197	268.00	52,752.40
17.10	MR 14	Providing and fixing uPVC cleanout plug of approved quality.				-
		110 mm dia	Each	170	177.15	30,078.47
		<b>Total of sub-head (17.0) (DSR)</b>				<b>2,61,738.12</b>
		<b>Total of sub-head (17.0) (Non DSR)</b>				<b>14,02,893.34</b>
18.0		<b>Water Supply Installations (As per D.S.R.)</b>				
18.01	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of engineer in charge.				-
		Internal work -Exposed on Wall				
	18.7.3	20 mm nominal dia pipes	Metre	243	408.55	99,448.08
	18.7.4	25 mm nominal dia pipes	Metre	260	500.95	1,30,219.68
	18.7.5	32 mm nominal dia pipes	Metre	72	674.35	48,636.55
	18.7.6	40 mm nominal dia pipes	Metre	8	927.00	6,964.44
18.02	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes having the thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. this includes jointing of pipes and fittings with one step CPVC solvent cement and the cost of cutting chases and making good the wall same including testing of joints complete as per the direction of				-
		Concealed work including cutting chases and making good the wall etc.				
	18.8.2	20 mm nominal dia pipes	Metre	601	513.75	3,08,748.28
	18.8.3	25 mm nominal dia pipes	Metre	243	626.05	1,52,391.31
	18.8.4	32 mm nominal dia pipes	Metre	212	712.75	1,51,005.41
18.03	18.10	Providing and fixing G.I. pipes complete with GI fittings and clamps including cutting and making good the walls etc. (internal work)				-
		For Roof level				
	18.10.3	25 mm dia, nominal bore	Metre	616	491.20	3,02,606.58
	18.10.4	32 mm dia, nominal bore	Metre	101	563.60	56,840.66
	18.10.5	40 mm dia, nominal bore	Metre	15	725.15	11,026.67
	18.10.6	50 mm dia, nominal bore	Metre	8	893.20	6,710.50
	18.12.7	65 mm dia, nominal bore	Metre	21	768.60	15,921.16
	18.12.8	80mm nominal bore	Metre	8	919.10	6,905.08
18.04	DSR Item 13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade				-
	13.61.1	Two more coat on new work	sqm	75	131.45	9,875.67
18.05	18.17	Providing and fixing gun metal gate valve with CI wheel of approved quality (screwed ends)				-
	18.17.1	25mm dia, nominal bore	Each	113	532.35	59,992.18
	18.17.2	32 mm dia, nominal bore	Each	45	589.90	26,591.07
	18.17.3	40 mm dia, nominal bore	Each	3	707.30	2,125.54
	18.17.4	50 mm dia, nominal bore	Each	2	878.25	1,319.64
18.06	18.19	Providing and fixing gun metal non- return valve of approved quality (screwed end)				-
	18.19.3.1	40 nominal bore	Each	2	815.05	1,224.67
	18.19.4.1	50 nominal bore	Each	2	1173.65	1,763.50
	18.19.6.1	80 nominal bore	Each	2	3134.80	4,710.27

**SCHEDULE OF QUANTITIES**

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
18.07	18.16	Providing and fixing brass stop cock of approved quality				-
	18.16.1	15mm nominal bore	Each	3	303.85	913.11
	18.16.2	20mm nominal bore	Each	3	327.95	985.54
18.08	ELECT. DSR 2022 / 16.11	Supplying, fixing, testing and commissioning of following valves, 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 water circulation as specified.				-
	16.11.1.4	100 nominal bore	Each		5412.00	-
	16.11.1.5	80 nominal bore	Each	2	4055.00	6,092.94
	16.11.1.6	65 nominal bore	Each	6	3821.00	22,965.36
18.09	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats				-
	18.18.3	25 mm nominal bore	Each	26	399.15	10,195.80
		<b>Water Supply Internal Work (Non Scheduled Items)</b>				-
18.10	MR 15	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)				-
		a) 15 mm dia nominal bore	Each	81	226.50	18,377.99
		b) 20 mm dia nominal bore	Each	45	274.65	12,380.47
		c) 25 mm dia nominal bore	Each	42	375.65	15,804.38
		d) 32 mm nominal bore	Each	30	464.00	13,943.90
						-
		<b>Total of sub-head (18.0) (DSR)</b>				<b>14,46,179.70</b>
		<b>Total of sub-head (18.0) (Non DSR)</b>				<b>60,506.74</b>
						-
19.0		<b>EXTERNAL SEWERAGE SYSTEM</b>				-
						-
	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	All kinds of soils				-
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	646	417.35	2,69,652.86
19.01	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete.				-
	19.1.2	150 mm diameter	Metre	517	591.40	3,05,686.26
	19.1.4	250 mm diameter	Metre	129	1293.90	1,67,199.63
19.02	19.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :				-
	19.3.2	150 mm dia S.W pipe	Metre	258	689.75	1,78,260.99
	19.3.4	250 mm dia S.W pipe	Metre	65	943.90	60,986.06
19.03	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	258	1095.15	2,83,033.74
	19.2.4	250 mm diameter S.W. pipe	Metre	65	1476.35	95,388.04



SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
19.04	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 witha floating coat of neat cement complete as per 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 designation 7.5	each	60	11687.10	7,02,429.77
	19.7.2	Inside Sizw 120x90 cm and 90 cm deep including C.I cover with frame (medium Duty) 500mm internal diametet,total weight of cover and frame to be not less than 116kh (weight of cover 58kg and weight of frame 58 kg)				
	19.7.2.1	with common burnt clay F.P.S (non modular) bricks of class designation 7.5	Each	8	24405.90	1,83,358.47
19.05	19.9	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design				
	19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for				
	19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	5	11886.45	53,580.85
19.06	19.8	Extra for depth for manhole with F.P.S. bricks				
	19.8.1	Size 90 X 80 cm				
	19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	6	8127.45	48,848.41
	19.8.2	Size 120 X 90 cm				
	19.8.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	6	9744.25	58,565.87
19.07	19.10	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m				
	19.10.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	3	6986.80	20,996.38

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
19.08	19.16	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	each	65	487.10	31,471.88
19.09	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 cover to be not less than 4.50 kg and frame to be not less than 2.70kg as per standard design:				-
	19.4.3	180x150 mm size P type				-
	19.4.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	54	2534.00	1,37,070.90
19.10	19.21.1	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1cement: 2 coarse sand : 4 graded stone aggregate 20mm nominal size) cement plastered on both sides with cement mortar 1:3 (1cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete for pipes 100 to 230mm dia.				-
	19.21.1	For pipes 100 to 250 mm diameter	each	9	683.70	6,163.86
19.11	19.32	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design.				-
	19.32.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	9	28029.15	2,52,695.40
19.12	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		2940.20	-
		<b>Total of sub-head (19.0) (DSR)</b>				<b>28,55,389.38</b>
20.0		<b>External Storm Water Drainage System</b>				
20.01	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, 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 50m:				
	2.10.1	All kinds of soil				
	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	496	417.35	2,06,942.89
20.02	2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth upto 1.5 m, including getting out the excavated materials, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50 m :				-

**SCHEDULE OF QUANTITIES**

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
	2.13.1	Ordinary rock				-
	2.13.1.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm dia	Metre	120	933.35	1,12,194.27
						-
20.01	19.6	Providing and laying non-pressure NP2 class (light duty) RCC pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete. (for storm drainage)				-
	19.6.2	150 mm dia RCC pipe	Metre	120	493.10	59,273.58
	19.6.3	250 mm dia RCC pipe	Metre	60	811.15	48,752.55
	19.6.4	300 mm dia RCC pipe	Metre	53	902.05	47,438.92
						-
20.02	19.3	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of S.W. pipes including bed concrete as per standard design :				-
	19.3.2	150 mm diameter S.W. pipe /RCC pipes	Metre	105	689.75	72,548.08
	19.3.4	250 mm diameter S.W. pipe /RCC pipes	Metre	53	943.90	49,639.82
	19.3.5	300 mm diameter S.W. pipe/RCC pipes	Metre	60	1089.10	65,458.18
						-
20.03	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/RCC pipes	Metre	8	1095.15	8,227.72
	19.2.4	250 mm diameter S.W. pipe/RCC pipes	Metre	8	1476.35	11,091.63
						-
20.04	19.27	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :				-
	19.27.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	15	5589.45	83,985.68
						-
20.05	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality				-
	19.19.3	L D- 2.5				-
	19.19.3.1	Circular shape 560 mm internal diameter	Each	6	1494.20	8,980.59
						-
20.06	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	6	1484.70	8,923.49
						-
20.07	12.41	Providing & fixing on wall face unplasticised - Rigid PVC rain water pipes conforming to IS:13592 Tyape A included jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion. (Single coekated pipes)				-
	12.41.2	110 mm diameter	Metre	30	319.75	9,608.97
						-
20.08	23.1	<b>Boring/drilling bore well</b> of required dia for casing/ strainer pipe, by suitable method prescribed in IS:2800(Part I), including collecting sample from different strata , preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90m				-
	23.1.1	All types of Soil				-
	23.1.1.1	300 mm dia	Metre	180	592.10	1,06,760.96
						-
20.09	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				-
	23.3.2	150mm nominal size dia	Metre	108	668.50	72,321.94
						-

**SCHEDULE OF QUANTITIES**

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
20.10	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.				-
	23.4.2	150 mm nominal size dia	Metre	72	681.90	49,181.08
20.11	23.5	Supplying, filling, spreading & levelling <b>stone boulders</b> 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	5	1302.30	5,870.41
20.12	23.6	Supplying, filling, spreading & levelling <b>gravel</b> 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	5	1309.00	5,900.61
20.13	23.7	Supplying, filling, spreading & levelling <b>coarse sand</b> of size range 1.5mm to 2mm, in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	5	1309.00	5,900.61
20.14	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	225	1213.25	2,73,449.87
20.14	23.15	Providing and fixing <b>Bail plug/ Bottom</b> plug of required dia to the bottom of pipe assembly of the well as per IS:2800 (part I)				-
	23.15.1	100 mm dia	each	3	228.25	685.93
20.15	Derived from DSR 2021	Constructing brick masonry open surface drain with bricks of class designation 75 in cement mortar 1:4 (1 cement : 4 fine sand) including 10 cm thick bed concrete 1:5:10 (1 cement: 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) for filling haunches including 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) with a floating coat of neat cement inside the drain, its top and exposed side including disposal of surplus earth complete as per standard				-
		a) 25 cm drain 30 cm average depth, With F.P.S. bricks	each	451	1685.85	7,59,934.81
20.16	Derived from DSR 2021	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	15	428.05	6,431.77
		<b>Total of sub-head (20.0) (DSR)</b>				<b>20,79,504.36</b>
21		<b>EXTERNAL WATER SUPPLY SYSTEM AND PUMPS DISTRIBUTION NETWORK FOR FRESH WATER SUPPLY</b>				-
21.01	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	173	417.95	72,220.14
	18.12.4	32mm nominal bore	Metre	341	457.70	1,56,114.39
	18.12.5	40mm nominal bore	Metre	45	558.35	25,168.88
	18.12.6	50mm nominal bore	Metre	105	654.20	68,808.92
	18.12.7	65mm nominal bore	Metre	8	768.60	5,774.40
	18.12.8	80mm nominal bore	Metre	8	919.10	6,905.08
21.02	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	173	15.25	2,635.14
	18.40.4	32 mm dia. nominal bore	Metre	341	18.40	6,275.96

**SCHEDULE OF QUANTITIES**

**Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram**

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
	18.40.5	40 mm dia. nominal bore	Metre	45	20.95	944.37
	18.40.6	50 mm dia. nominal bore	Metre	105	25.25	2,655.80
	18.40.7	65 mm dia. nominal bore	Metre	8	31.30	235.15
	18.40.8	80mm nominal bore	Metre	8	36.40	273.47
21.03	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : external works				-
	18.17.1	25mm nominal bore	Each	24	532.35	12,798.33
	18.17.2	32 mm dia. nominal bore	Each	12	589.90	7,090.95
	18.17.3	40 mm dia. nominal bore	Each	3	707.30	2,125.54
	18.17.4	50mm nominal bore	Each	3	878.25	2,639.27
	18.17.5	65mm nominal bore	Each	2	1490.70	2,239.89
	18.17.6	80mm nominal bore	Each	2	2227.60	3,347.14
21.04	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	75	164.10	12,328.63
	18.41.4	32mm dia pipe	Metre	281	168.35	47,303.24
	18.41.5	40mm dia pipe	Metre	45	170.50	7,685.67
	18.41.6	50mm dia pipe	Metre	105	176.90	18,606.39
	18.41.7	65mm dia pipe	Metre	8	279.20	2,097.59
	18.41.8	80mm dia pipe	Metre	8	287.70	2,161.45
21.05	18.59	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :				-
	18.59.1	50 mm dia	Each	3	5171.75	15,541.88
	18.59.2	80 mm dia	Each	2	6255.45	9,399.28
	18.32	Constructing masonry chamber 30x30x50 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement:4 coarse sand) for stop cock complete with C.I. surface box 100x100x75mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand: 4 graded stone aggregate 20mm nominal size) 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				-
	18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	15	1712.15	25,726.34
21.06	18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size ) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per				-
	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	3	10102.50	30,359.53
21.07	18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :				-
	18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	2	17577.90	26,412.11
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## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawm DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
21.08	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	2	1513.70	2,274.45
21.09	ELECT. DSR 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	65 nominal bore	Each	2	3821.00	5,741.34
	16.11.1.5	80 nominal bore	Each	2	4055.00	6,092.94
21.10	ELECT. DSR 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.				-
	16.11.2.5	80 nominal bore	Each	2	3477.00	5,224.45
21.11	ELECT. DSR 2022 / 14.13	Providing and fixing GI pipes medium class conforming to IS 1239 with GI fittings including cutting hole chase painted with primer, two coats of enamel paints etc.				-
	14.13.3	100 mm dia, NB	Metre	5	1806.00	8,140.95
	14.13.4	150 mm dia, NB	Metre	5	2740.00	12,351.17
						-
		<b>Total of sub-head (21.0) (DSR)</b>				<b>6,15,700.24</b>
22.0		<b>Bore Well Installations (As per D.S.R)</b>				
22.01	23.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre				
	23.1.1	All types of soil				
	23.1.1.1	300 mm dia	metre	150	592.10	88,967.47
	23.1.2	Rocky strata including Boulders				-
	23.1.2.1	300 mm dia	metre	45	1416.30	63,842.91
22.02	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of	Meter			-
	23.3.3	200mm nominal dia	Meter	120	951.95	1,14,430.10
22.03	23.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of				-
	23.4.3	200 mm nominal size dia	metre	60	1099.25	66,068.22
22.04	23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer in-charge.	cum	12	1479.25	17,781.47
22.05	23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	hour	54	916.80	49,592.19
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## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR 2021	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
22.06	23.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				-
	23.13.3	200 mm nominal size dia	Each	2	280.95	422.15
						-
22.07	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete				-
	23.14.3	200 mm clamp	Each	3	1827.00	5,490.41
						-
22.08	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I)				-
	23.15.3	200 mm dia	Each	2	308.55	463.62
						-
		<b>Total of sub-head (22.0) (DSR)</b>				<b>4,07,058.53</b>

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
<b>23</b>	<b>DSR-2022</b>	<b>PIPING &amp; VALVES</b>				
23.01		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	12	744.00	8943.33
	18.7.5	65 mm dia.	Metre	42	1614.00	67904.37
	18.7.6	80 mm dia.	Metre	120	1885.00	226588.31
	DSR21			0		
23.02	18.17 (Civil)	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :		0		
	18.17.1	25 mm dia.	Nos	12	532.35	6399.17
				0		
		<b>Total of sub-head (23.0) (DSR)</b>		<b>0</b>		<b>309835.17</b>
		<b>Total of sub-head (23.0) (NON DSR)</b>		<b>0</b>		
				0		
<b>24</b>		<b>FIRE HYDRANT ACCESSORIES</b>		0		
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 equipments on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.		0		
	18.17.1	30m	Nos	12	8675.00	104278.70
				0		
		<b>Total of sub-head (24.0) (DSR)</b>		<b>0</b>		<b>104278.70</b>
				0		
<b>25</b>		<b>FIRE EXTINGUISHERS &amp; MISC. ITEMS</b>		0		
				0		
25.01	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 supplied.)	Nos	12	2825.00	33958.19
				0		
		<b>Total of sub-head (25.0) (Non DSR)</b>		<b>0</b>		<b>33958.19</b>
				0		
		<b>ELECTRICAL WORKS (Internal)</b>		0		
				0		
<b>26</b>		<b>Internal Wiring</b>		0		
				0		
		<b>Point wiring in PVC conduit, with modular type switch :-</b>		0		



## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
26.01	1.1	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.		0		
	1.10.1	Group A	Point	1456	1015.00	1477835.09
	1.10.2	Group B	Point	45	1182.00	53281.31
				0		
26.02	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 common areas/ toilets/ corridors etc.)		0		
	1.55.1	Group A	Point	120	649.00	78013.69
	1.55.2	Group B	Point	3	753.00	2262.88
				0		
26.03	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 etc. as required.	Point	33	1562.00	51634.49
				0		
		<b>Power plug wiring in PVC conduit</b>		0		
26.04	1.12	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 as required.	Metre	4637	334.00	1548740.10
				0		
26.05	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 as required.	Metre	451	537.00	242064.83
				0		
		<b>Circuit / Sub main wiring in PVC conduit :-</b>		0		
26.06	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.		0		
	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire.	Metre	3047	233.00	710002.74
	1.14.4	2 x 6 sq.mm. + 1 x 6 sq.mm. Earth wire	Metre	789	439.00	346305.97
	1.14.5	2 x 10 sq.mm. + 1 x 6 sq.mm. Earth wire	Metre	481	570.00	274069.68
	1.14.9	4 x 6 sq.mm. + 2 x 6 sq.mm. Earth wire	Metre	639	754.00	481500.15
				0		
		<b>S/F light plug point Modular Type Accessories :-</b>		0		
26.07	1.31	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	642	477.00	306042.97
				0		
		<b>S/F power plug point modular Type Accessories :-</b>		0		
26.08	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	373	586.00	218366.22
				0		

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
26.08	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	29	1621.00	46277.81
				0		
26.09	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.	Each	2	676.00	1015.74
				0		
		<b>Total of sub-head (26.0) (DSR)</b>		<b>0</b>		<b>5837413.67</b>
				0		
<b>27</b>		<b>Distribution Boards &amp; MCB'S</b>		0		
27.01	2.1	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.		0		
	2.10.1	Single pole	Each	1010	256.00	258490.98
	2.10.5	Triple pole and neutral	Each	0	1228.00	0.00
				0		
27.02	2.11	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	15	13.00	195.33
				0		
27.03	2.4	Supplying and Fixing Following way, Horizontal Type Three Pole and Neutral, Sheet Steel, MCB Distribution Board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).		0		
	2.4.1	4 Way (4 + 12), Double Door	Each	5	4091.00	18441.10
	2.4.2	6 Way (4 + 18), Double Door	Each	11	4974.00	52316.66
	2.4.3	8 Way (4 + 24), Double Door	Each	9	5967.00	53795.19
				0		
27.04	2.5	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 where 3 phase outlets are required.)		0		
	2.5.1	4 way (4 + 12), Double door	Each	3	7512.00	22574.69
				0		
27.05	2.3	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).		0		
	2.3.1	6 Way Double door.	Each	14	2206.00	29832.12
	2.3.2	8 Way Double door.	Each	0	2573.00	0.00
	2.3.3	12 Way Double door.	Each	39	2315.00	90439.99
				0		
		<b>S/F DP Isolator</b>		0		
27.06	2.12	Supplying and fixing following Rating, Double pole, 240 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as Required.		0		
	2.12.1	40 Amps	Each	8	435.00	3268.10
	2.12.2	63 Amps	Each	45	527.00	23755.71
				0		
		<b>S/F 4P Isolator</b>		0		

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
27.07	2.13	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as Required.		0		
	2.13.1	40 Amps	Each	5	970.00	4372.49
	2.13.2	63 Amps	Each	20	1034.00	20197.61
				0		
		<b>S/F DP (RCCB)</b>		0		
27.08	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.		0		
	2.14.2	40 Amps	Each	8	2642.00	19849.02
	2.14.3	63 Amps	Each	45	2722.00	122700.27
				0		
		<b>S/F FP (RCCB)</b>		0		
27.09	2.15	Supplying and fixing following rating, four pole, (Three 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. as required.		0		
	2.15.2	40 Amps	Each	5	3188.00	14370.63
	2.15.3	63 Amps	Each	20	2872.00	56100.14
				0		
27.10	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.		0		
	2.23.1	For 6 way, Double door SPN MCBDB	Each	14	752.00	10169.43
	2.23.2	For 8 way, Double door SPN MCBDB	Each	0	832.00	0.00
	2.23.3	For 14 way, Double door SPN MCBDB	Each	39	902.00	35238.39
				0		
27.11	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 commissioning etc. as required.		0		
	2.24.1	For 4 way, Double door TPN MCBDB	Each	8	1080.00	8113.90
	2.24.2	For 6 way, Double door TPN MCBDB	Each	11	1124.00	11822.26
	2.24.3	For 8 way, Double door TPN MCBDB	Each	9	1340.00	12080.70
				0		
27.12	2.16	Supplying and fixing DP sheet steel enclosure on surface/recess along with 25/32 A 240V "C" Curve DP MCB complete with connections, testing and commissioning etc. as required. ( For Qtrs Emergency Supply)	Each	41	1169.00	47425.77
				0		
27.13	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.		0		
		63 amps FP MCB	Each	9	1463.00	13189.60
				0		
		<b>Total of sub-head (27.0) (DSR)</b>		<b>0</b>		<b>915550.49</b>
		<b>Total of sub-head (27.0) (Non-DSR)</b>		<b>0</b>		<b>13189.60</b>
				0		
<b>28</b>		<b>Telephone, Television &amp; Data System (Socket,Wiring &amp; Conduiting Only)</b>		0		
				0		
		<b>S/F Modular Boxes, Base &amp; Cover Plate :-</b>		0		
28.01	1.27	Supplying and Fixing Following Size/ Modules, GI Box Alongwith Modular Base & Cover Plate for Modular Switches in Recess etc. as Required.		0		

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
	1.27.1	1 or 2 Module (75 mm x 75 mm)	Each	86	298.00	25522.74
				0		
		S/F Modular Type Switch / Socket :-		0		
28.02	1.24	Supplying and Fixing Following Modular Switch/ Socket on The Existing Modular plate & Switch Box including connections But Excluding Modular Plate etc. as required.		0		
	1.24.6	Telephone Socket outlet.	Each	42	148.00	6226.67
	1.24.7	TV Antenna socket outlet.	Each	42	148.00	6226.67
				0		
28.03	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 required.		0		
	1.21.1	20 mm.	Metre	646	128.00	82701.73
	1.21.2	25 mm.	Metre	421	145.00	61004.54
				0		
28.04	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.		0		
	1.18.2	2 Pair	Metre	841	38.00	31974.80
				0		
28.05	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	631	47.00	29660.83
				0		
28.06	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.		0		
	1.53.1	1 run of cable	Metre	38	57.00	2141.17
				0		
28.07	1.38	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	41	99.00	4016.38
				0		
28.08	MR	SITC Modular Type Computer jack RJ 45 ISI mark 1 Module on existing Mounting plate and box Complete.	Each	2	198.00	297.51
				0		
		<b>Total of sub-head (28.0) (DSR)</b>		<b>0</b>		<b>249475.53</b>
		<b>Total of sub-head (28.0) (Non DSR)</b>		<b>0</b>		<b>297.51</b>
				0		
<b>29</b>		<b>Internal Lighting Fixtures &amp; Fans</b>		<b>0</b>		
				0		
29.01	MR	Supply of 20 Watt LED light Wall Mounted BRACKET light fitting Suitable for 220 volts Single Phase A C Supply complete with all accessories as required.	Each	2	795.00	1194.55
				0		
29.02	MR	Supply of Surface Mounted Energy Efficient, LED Luminaires 12W LED DOWN LIGHT (Round) Suitable 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	36	739.00	26649.67
				0		
29.03	MR	Supply of Surface Mounted Energy Efficient, LED Luminaires 15W LED DOWN LIGHT (Round) Suitable 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	53	792.00	41651.38
				0		
29.04	MR	Supplying and fixing brass batten/ angle holder including 20 w LED Lamp, connection etc. as required.	Each	491	300.00	147402.61
				0		

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
29.05	MR	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	2	273.00	410.20
				0		
29.06	MR	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	192	898.00	172711.98
				0		
29.07	MR	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	376	379.00	142368.98
				0		
29.08	MR	Supplying and fixing of Bulk Head with 10 Watt LED lamp fitting Suitable for 230 volts Single Phase A C Supply complete with all accessories as required.	Each	26	1203.00	30729.16
				0		
		<b>SUPPLY FANS &amp; EXHAUST FANS</b>		0		
				0		
29.09	MR	Supply, of following size sweep, BEE , 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 required.		0		
		(a) 1200 mm Sweep	Each	344	1775.00	610759.17
				0		
29.10	MR	Supply of following sweep heavy duty metal body exhaust 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/Havells/Bajaj)		0		
		(a) 200 mm sweep 900 RPM ( in plastic body)	Nos	45	1033.00	46564.80
		(b) 300 mm sweep 900 RPM ( In metal body)	Nos	24	2873.00	69070.37
		(c) 450 mm sweep 900 RPM ( In metal body)	Nos	0	4530.00	0.00
				0		
		<b>Erection Of Lighting Fixtures And Fans</b>		0		
29.11	1.41	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 Required.	Each	660	206.00	135883.87
				0		
29.12	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	344	339.00	116646.40
				0		
29.13	1.50	Installation of Exhaust fan in the existing opening, including making good the damage, Connection, Testing, Commissioning etc. as Required.		0		
	1.50.1	Upto 450 mm sweep	Each	69	450.00	31103.30
				0		
		<b>S/F modular type electronic fan regulator:</b>		0		
29.14	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	344	369.00	126969.09

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
				0		
		<b>Fixing Louvers / Shutters for Exhaust Fan:</b>		0		
29.15	1.51	Extra for Fixing the Louvers/ Shutters Complete with Frame for a Exhaust Fan of all sizes.	Each	24	207.00	4976.53
				0		
		<b>Extra Down GI Pipe 15mm Dia:</b>		0		
29.16	1.47	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	344	46.00	15828.12
				0		
		<b>Total of sub-head (29.0) (Non DSR)</b>		<b>0</b>		<b>1289512.86</b>
		<b>Total of sub-head (29.0) (DSR)</b>		<b>0</b>		<b>431407.31</b>
				0		
		<b>ELECTRICAL WORKS (External)</b>		0		
				0		
<b>30</b>		<b>PANELS</b>		0		
30.01	MR	<b>Emergency Panel</b>		0		
		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 aluminium cable as required.	Each	0		
		<b>INCOMING:</b>		0		
		1 nos. 50 A 415V, 4P MCCB of 25kA with thermal magnetic release, overload, short circuit and Earth fault protection.		0		
		1 no. Digital type Multifunction Meters to show (V, A, kWh, KVAh, KW, KVA, KVAR, PF, Hz.) with cast resin CTs.		0		
		1 Set of phase indicating lamps with MCB protection.		0		
				0		
		<b>OUTGOING</b>		0		
		9 nos. 20 A 4P MCB		0		
		7 nos. 32 A , 4P MCB		0		
		2 nos. 20 A 415V, 4P MCCB of 10kA with 40A 4P Contactor & timer switch .		2	85700.00	128770.68
				0		
30.02	MR	<b>BOYS HOSTEL MAIN DISTRIBUTION PANEL - 2</b>		0		
				0		
		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 nearest earth grid.		0		
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections.		0		
		INCOMER : 125 AMP FP MCCB		0		

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		3 Nos. Phase Indication light (lamp) with MCBs protection.		0		
		Multi functional meters (VAF) with suitable CTS and protection MCBS 1 set.		0		
		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.		0		
		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.		0		
		<b>OUT GOINGS :</b>		0		
		10 No 63 AMP FP MCB		0		
		2 No 40 AMP DP MCB		0		
		2 No 63 AMP DP MCB	set	2	77901.00	117052.09
				0		
30.03	MR	<b>GIRLS HOSTEL MAIN DISTRIBUTION PANEL - 2</b>		0		
				0		
		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 nearest earth grid.		0		
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections.		0		
		INCOMER : 125 AMP FP MCCB		0		
		3 Nos. Phase Indication light (lamp) with MCBs protection.		0		
		Multi functional meters (VAF) with suitable CTS and protection MCBS 1 set.		0		
		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.		0		
		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.		0		
		<b>OUT GOINGS :</b>		0		
		10 No 63 AMP FP MCB		0		
		2 No 40 AMP DP MCB		0		
		2 No 63 AMP DP MCB	set	2	77901.00	117052.09
				0		
30.04	MR	<b>TYPE -II &amp; III STAFF QTRS. DISTRIBUTION PANEL</b>		0		
		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 nearest earth grid.		0		
		NOTE:- MCCB's wherever specified upto 250A shall be Thermal Magnetic & Above 250A will be Microprocessor based inbuilt protections.		0		
		INCOMER : 125 AMP FP MCCB		0		
		3 Nos. Phase Indication light (lamp) with MCBs protection.		0		
		Multi functional meters (VAF) with suitable CTS and protection MCBS 1 set.		0		

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		BUS BAR : 160 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 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.		0		
		OUT GOINGS :		0		
		12 Nos 63 AMP 2 Pole MCB (For each Qtr.DBs and Spare )		0		
		complete panel as above and complete	Set	5	48057.00	216627.74
				0		
30.05	MR	<b>EXTERNAL LIGHT FEEDER PILLAR - 2</b>		0		
		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 electrolytic Aluminium Bus Bar, removable gland plates, cable glands, including connection with outgoing feeders complete in all respect, Panel Should Have Double Earthing Provision Which Connected to the Nearest Earth Grid.		0		
		INCOMER:		0		
		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 automaitc switching of landscape light fixtures at sun set and sun rise or twilight (auto on/ auto off and auto mode) with manual override faicity with 12/24 hour display format with suitable battery and indication for relay status i/c programming at site.		0		
		BUS BAR		0		
		TPN Aluminium bus bar with heat Shrink Sleeve rated for 125A.		0		
		OUTGOING		0		
		18 nos 16A DP MCB (For Compound Group Light + Spare)		0		
		4 Nos 16KA 40A FP MCCB (Spare)		0		
		1 nos 40A FP MCCB (BORE WELL STAND BY)		0		
		Other items such as		0		
		1 Set of control wiring		0		
		1 Set of designation plates		0		
		All Items complete as above	set	2	86284.00	129648.18
				0		
		<b>Total of sub-head (30.0) (Non DSR)</b>		0		<b>709150.78</b>
				0		
31		<b>LT Cable And Accessories</b>		0		
				0		
31.01		<b>Supply Of L.T. Cable:</b>		0		
		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.		0		
	MR	3.5 C X150 Sq.mm Al. XLPE arm.	Metre	341	1192.00	406572.75
	MR	3.5 C X 120 Sq.mm Al. XLPE arm.	Metre	0	1015.00	0.00
	MR	3.5 C X 95 Sq.mm Al. XLPE arm.	Metre	0	827.00	0.00
	MR	3.5 C X 70 Sq.mm Al. XLPE arm.	Metre	278	661.00	183742.38
	MR	3.5 C X 50 Sq.mm Al. XLPE arm.	Metre	240	489.00	117561.47
	MR	3.5 C X 35 Sq.mm Al. XLPE arm.	Metre	188	365.00	68554.98
	MR	3.5 C X 25 Sq.mm Al. XLPE arm.	Metre	2470	296.00	731189.05
				0		
	DSR 7	<b>LT Cable Laying</b>		0		



## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram

S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
31.02	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.		0		
	DSR 7.1.1	Upto 35 sq. mm	Metre	751	387.00	290748.26
	DSR 7.1.2	Above 35 sq. mm and upto 95 sq. mm	Metre	150	405.00	60854.29
	DSR 7.1.3	Above 95 sq. mm and upto 185 sq. mm	Metre	105	422.00	44386.07
31.03				0		
	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 as required.		0		
	DSR 7.2.1	Upto 35 sq. mm	Metre	751	269.00	202096.34
31.04	DSR 7.2.2	Above 35 sq. mm and upto 95 sq. mm	Metre	150	286.00	42973.64
	DSR 7.2.3	Above 95 sq. mm and upto 185 sq. mm	Metre	105	304.00	31974.80
				0		
	DSR 7.3	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.		0		
31.05	DSR 7.3.1	Upto 35 sq. mm	Metre	601	200.00	120206.00
	DSR7.3.2	Above 35 sq. mm and upto 95 sq. mm	Metre	75	217.00	16302.94
	DSR7.3.3	Above 95 sq. mm and upto 185 sq. mm	Metre	75	234.00	17580.13
				0		
	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.		0		
	DSR 7.5.1	Upto 35 sq. mm	Metre	225	37.00	8339.29
	DSR 7.5.2	Above 35 sq. mm and upto 95 sq. mm	Metre	75	57.00	4282.34
	DSR 7.5.3	Above 95 sq. mm and upto 185 sq. mm	Metre	15	77.00	1156.98
				0		
	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 masonry open duct etc. as required.		0		
	DSR 7.6.1	Upto 35 sq. mm	Metre	225	28.00	6310.81
	DSR 7.6.2	Above 35 sq. mm and upto 95 sq. mm	Metre	53	45.00	2366.56
	DSR 7.6.3	Above 95 sq. mm and upto 185 sq. mm	Metre	30	63.00	1893.24
				0		
	DSR 7.7	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.		0		
	DSR 7.7.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	Metre	104	55.00	5702.27
	DSR 7.7.3	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre	15	130.00	1953.35
	DSR 7.7.3	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Metre	11	153.00	1609.26
				0		
	DSR 9	<b>MV CABLE JOINTING &amp; END TERMINATION</b>		0		
31.06	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.		0		
	DSR 9.1.20	3½ X 25 sq. mm (28mm)	Each	48	313.00	15049.79
	DSR 9.1.21	3½ X 35 sq. mm (32mm)	Each	6	369.00	2217.80
	DSR 9.1.22	3½ X 50 sq. mm (35mm)	Each	3	413.00	1241.13
	DSR 9.1.23	3½ X 70 sq. mm (38mm)	Each	3	468.00	1406.41
	DSR 9.1.24	3½ X 95 sq. mm (45mm)	Each	0	588.00	0.00
	DSR 9.1.25	3½ X 120 sq. mm (45mm)	Each	0	613.00	0.00
	DSR 9.1.26	3½ X 150 sq. mm (50mm)	Each	9	697.00	6283.77
				0		
		<b>Total of sub-head (31.0) (Non DSR)</b>		<b>0</b>		<b>1507620.63</b>

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		<b>Total of sub-head (31.0) (DSR)</b>		<b>0</b>		<b>886935.46</b>
				0		
32	DSR 2022	<b>Earthing</b>		0		
32.01	5.4	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..	Set	21	7472.00	157181.36
32.02	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	3	6855.00	20600.30
32.03	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Metre	150	244.00	36662.83
32.04	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	6777	42.00	284617.75
32.05	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 required.	Metre	30	287.00	8624.78
				0		
		<b>Total of sub-head (32.0) (DSR)</b>		<b>0</b>		<b>507687.03</b>
				0		
33	DSR2022	<b>Pole Erection</b>		0		
33.01	11.3	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 required.		0		
	11.3.1	Above 4.5 metre and upto 6.5 metre	Each	48	5121.00	246229.97
33.02	11.6	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 Sealing to be done complete as required.		0		
	11.6.1	32 mm dia	Metre	240	525.00	126216.30
				0		
		<b>Total of sub-head (33.0) (DSR)</b>		<b>0</b>		<b>372446.27</b>
				0		
34		<b>External Lighting System</b>		0		
34.01	MR	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.	0	4475.00	0.00
				0		
34.02	MR	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.	29	3276.00	93526.28
				0		

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
34.03	MR	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 3rd party NABL Labs / TUV / UL / MNRE Authorised labs. (Note:- Inhouse labs approved by NABL will not be acceptable, only 3rd part labs shall be considered . <b>The lighting supplier should be able to provide immediate service support with a service centre on district level and must have a dedicated toll free number to register complaints. The warranty on the complete solar light shall be of 5 years.)</b>	Nos.	21	42800.00	900342.93
		( B )The following certificates/documents are 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 accreditation 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 complete system warranty & providing immediate after sales service within the warranty period against manufacturing defects, LM 79 report,IP 65 report , IK 08 report against the supply of Hybrid AIO Solar lights for it's acceptance by the department		0		

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
34.04	MR	<b>Building Outer Light (60W LED)</b> :- 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 <b>60W LED Lamp</b> 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 cover. (Make:- Philips/TriLux/Hevalle Endura Pearl NeoA/Mira	Each	12	5030.00	60463.62
				0		
34.05	MR	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 polyetherene & 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 Required.	Nos.	12	1109.00	13330.85
				0		
34.06	MR	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.		48	6219.00	299024.44
				0		
34.07	MR	Supplying/fixing of following light pole arm Bracket fabricated out of GI pipe having thickness and length as per manufacturer design complete etc as reqd.		0		
	a	Single arm bracket (atleast 1 mtr long)		26	728.00	18595.87
	b	Double arm bracket		2	1258.00	1890.24
				0		
34.08	MR	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 Testing and commissioning as Required.		0		
		2x6 sqmm	Metre	3892	137.00	533158.68
				0		
34.09		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of size up to 35 sq. mm		0		
	7.3.1	( a ) direct in ground including excavation and refilling the trench etc. as required, but excluding sand cushioning and protective covering.	Metre	3343	200.00	668645.87
	7.7.1	( b ) On Surface	Metre	293	55.00	16115.12
				0		
34.10	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.		0		
		Upto 35 sq. mm	Metre	255	37.00	9451.20
				0		

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
34.11		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.		0		
	14.15.1	63 mm dia (OD-63 mm & ID-51 mm nominal)	Metre	113	127.00	14312.03
				0		
34.12	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	3569	42.00	149881.86
				0		
		<b>Total of sub-head (34.0) (Non DSR)</b>		<b>0</b>		<b>1920332.91</b>
		<b>Total of sub-head (34.0) (DSR)</b>		<b>0</b>		<b>858406.06</b>
				0		
<b>35</b>		<b>Pumps (Non Scheduled Items)</b>		0		
				0		
35.01	MR	Borewell Submersible Pump		0		
		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/delivery pipe lines are not included in this item )		0		
		Flow Rate : 350 to 400 LPM		0		
		min. Head : 60 M		0		
		Min. Motor HP : 7.5 H.P.	Set	2	54871.00	82447.79
				0		
35.02	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	180	55.00	9916.99
				0		
35.03	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 required.	Each	3	731.00	2196.76
				0		
35.04	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.		0		
		(a) 3 x 2.5 sqmm	Metre	105	115.00	12095.73
				0		
35.05	MR	S/Fixing of 8 " dia MS cover with locking arrangement i/c drilling hole and s/f nut bolts etc. complete as reqd.	nos	2	1032.00	1550.66
				0		
35.06	MR	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, commissioning etc as reqd. ( Note : The suction/delivery pipe lines are not included in this item )		0		
		Flow Rate : 4.5 to 5.0 LPS		0		
		Min. Head : 50 M		0		
		Min. Motor HP : 7.5 H.P. (Each)	set	2	50733.00	76230.14
				0		
		<b>Total of sub-head 35.0) (Non DSR)</b>		<b>0</b>		<b>184438.07</b>

## SCHEDULE OF QUANTITIES

Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
				0		
<b>36</b>		<b>CCTV SYSTEM</b>		0		
				0		
36.01	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.		0		
	1.53.1	1 run of cable	Mtr	601	57.00	34258.71
				0		
36.02	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 required :		0		
	1.21.2	25 mm	Mtrs.	346	145.00	50110.88
				0		
36.03	MR	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	6	6488.00	38994.83
				0		
36.04	MR	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	6	6488.00	38994.83
				0		
36.05	MR	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	21743.00	65340.98
				0		
		<b>Total of sub-head (36.0) (DSR)</b>		<b>0</b>		<b>84369.59</b>
		<b>Total of sub-head (36.0) (Non DSR)</b>		<b>0</b>		<b>143330.63</b>
				<b>0</b>		
<b>37</b>		<b>LIGHTNING CONDUCTOR</b>		0		
				0		
37.01	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	39	518.00	20236.68
				0		
37.02	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.	1037	126.00	130633.87
				0		
37.03	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.	361	197.00	71041.75
				0		
37.04	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	65	113.00	7301.01
				0		
37.05	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	18	121.00	2181.74
				0		
37.06	5.4	Earthing with G.I. earth plate 600mm x 600mm x 6mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7Mtr long etc. with charcoal/ coke and salt as required.	Set.	15	7472.00	112272.40

## SCHEDULE OF QUANTITIES



Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
				0		
		<b>Total of sub-head (37.0) (DSR)</b>		<b>0</b>		<b>343667.45</b>
				0		
<b>38</b>		<b>D.G.Set and associated works</b>		0		
38.01	<b>A</b>	<b>D.G.Set 25 KVA</b>		0		
		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		0		
	(a)	Diesel Engine:		0		
		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 accessories.		0		
	(b)	Engine mounted Instrument Panel fitted with and having digital display for following:		0		
		(i) Start-stop switch with key		0		
		(ii) Water temperature indication		0		
		(iii) Lubrication oil pressure indication		0		
		(iv) Lubrication oil temperature indication		0		
		(v) Battery charging indication		0		
		(vi) RPM indication		0		
		(vii) Over speed indication		0		
		(viii) Low lub. Oil trip indication		0		
		(ix) Engine Hours indication		0		
	(c)	Alternator :		0		
		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- F/H insulation		0		
	(d)	Base Frame & Foundation:		0		
		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.		0		
	(e)	Fuel Tank:		0		
		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 specifications.		0		
	(f)	Exhaust System:		0		
		Dry exhaust manifold with hospital exhaust silencer and catalytic convertor.		0		
	(g)	Starting System:		0		
		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.		0		
	(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 Norms.	set	0		

## SCHEDULE OF QUANTITIES





Name of Work :- Construction of EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS) at BLOCK -Darlawn DISTRICT- Aizawl, STATE- Mizoram						
S. No.	DSR	Description	Unit	Quantity	Rate (In Rs)	Amount (In Rs)
		Engine & Alternator stands warranty for minimum period of 24 months or 5000 hours of operation whichever earlier		0		
38.02	B	<b>AMF system for 25 KVA DG Set Part of DG.</b>		0		
		Fabricating, Installing, Testing & Commissioning of automatic mains failure control including auto by-pass 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:		0		
	(a)	(i) 1 No. 63 415V, 4P MCCB of 35kA.		0		
		(ii) 2 Nos. 63 A, 415V 4P Contactor		0		
	(b)	Auto/Manual/Test/Off selector switch		0		
	(c)	2 Nos over voltage relay, 2 Nos reverse power relay and 2 Nos under voltage relay.		0		
	(d)	3 Sets of current transformers 15 P 10 accuracy for protection and 15 VA class-I for metering		0		
	(e)	Energy analyser unit to indicate current voltage frequency power factor and KWH		0		
	(f)	Indicating lamps for load on mains and load on set		0		
	(g)	Fuse for instruments		0		
	(h)	Battery charger, complete with transformer/ rectifier, D.C. voltmeter and ammeter, selector switch for trickle, off and boost and current adjustment.		0		
	(i)	Main supply failure monitor		0		
	(j)	Supply failure timer		0		
	(k)	Restoration timer		0		
	(l)	Control unit with three impulse automatic engine start/stop and failure to start lockout.		0		
	(m)	Impulse counter with locking and reset facility.		0		
	(n)	ON/OFF/Control circuit switch with indicator		0		
	(o)	Audio/Video annunciation for		0		
		(i) High water temperature		0		
		(ii) Low lubricating oil pressure		0		
		(iii) Engine over speed		0		
		(iv) Engine fails to start		0		
		(v) Full load/maximum load warning	set	2	555766.00	835080.09
				0		
38.03	MR	Supplying and fixing exhaust gas piping of 75mm 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.	mtr.	6	1280.00	7693.18
		<b>TOTAL OF SUB HEAD (38.0) NON DSR</b>				<b>842773.27</b>







Abstract of Furniture

Item No	Specification	Items	Sample Image	Quantity	Unit	Rate with 18% GST and 15% CP & OH	Amount with 18% GST and 15% CP & OH
1	<p>Knock down class room dual desk is specially designed for rugged use. The desk are made of pressed formed MS CRCA section &amp; CRCA tube fitted with pre laminated Particle board top, seat &amp; back with Machine pressed PVC egde banding 2 mm thick glued with industrial adhesive and diffused with board monolithically . Hanger for water bottle and bag. Space for keeping pen, pencil and scale. The overall appearance of the product shall be as per indicative potographs attatched:</p> <p>DESK TOP –18mm Both Side laminate(BSL) PreLam Partical Board 400 mm wide                      BENCH TOP – 18mm BSL PreLam Partical Board 330 mm wide                      FRONT SHELF – 18mm BSL PreLam Partical Board 300(Wide)mm.                      BENCH BACK – 18mm BSL PreLam Partical Board 250(W)mm.                      Modesty Panel – 18mm BSL PreLam Partical Board 300 (W)mm.                      Supporting Understrucure- Left Hand and Right Hand FRAME consisting of vertical, horizontal and Cross Member made up of 25 x 1.2 mm outer dia ERW tube confirming to IS Grade 4923 and shall be finised with epoxy polyster powder coated finish with DFT 50-60 Micron confirming IS 13871:1993. The support system of Bench and Shelf shall also made up of made up of 25 x 1.2 mm outer dia ERW tube confirming to IS Grade 4923 and shall be finised with epoxy polyster powder coated DFT 50-60 Micron confirming IS 13871:1993..                      Resting support plate made of Table top , provided on the top of vertical members shal be made up of 3mm Thk CRCA sheet Conforming IS code 513. Legs shall be fitted with PVC Leveler. Construction is fully welded with MIG welding and assembled using M6 trilobularscrews(As per DIN 7500)with Zn blue plating. Compact top, seat and back panels are assembled using M6 Countersunk Trilobular screws(as per DIN 7500) with Zn Black Plating</p>	Duel Desk					
1(a)	Dual Desk :Overall Size 1100 (W) x 930-950( D) x 650 (H) - Desk Depth 390-400 mm. Seat Height 375 mm for Classs 6-8)			91	Each	9635	878712
1(b)	Dual Desk-(Overall Size 1100 W x 940-975( D )x 750 H - Desk Depth 400 mm. Seat Height 450 mm for Classs 9-12)			152	Each	10313	1567576





Abstract of Furniture

Item No	Specification	Items	Sample Image	Quantity	Unit	Rate with 18% GST and 15% CP & OH	Amount with 18% GST and 15% CP & OH
2	Supply and installation of Office table as per approved design and as directed by Engineer-in-charge Work Top - Work top shall be made 25mm thick Pre-lam MDF board confirming to IS 12406:2003 with post forming on front , back and machine pressed PVC egde banding 2 mm thick glued with industrial adhesive and diffused with board monolithically on other two sides Understructure- C-type leg shall be made of 50X50X1.6mm thick vertical member and 40x40x1.6mm thick M.S. pipe of Horizontal/Cross member confirming IS-Grade 4923 and shall be finished with epoxy polyster powder coated DFT 50-60 Micron. Legs shall be fitted to the ground with M8 screw leveler with the height adjustment up to 12mm to 15mm.Cross members shall be mounted by end brackets made of 3mm thick CRCA sheet confirming IS 513: 2008 and finished with epoxy polyster powder coated DFT 50-60 Micron confirming IS 13871:1993. Wire management - Electrical wires shall be carried from horizontal/ vertical duct made of 0.7mm CRCA sheet confirming to IS 513:2008. Switch Plate or Cromet depending upon requirement shall also be provided for electrical/LAN connection on table top. Modesty Panel -Modesty Panel of height 450 mm shall be made of 1.5mm thick CRCA sheet confirming to IS 513: 2008 and shall be finised with epoxy polyster powder coated DFT 50-60 Micron. Storage body- Storage top shall also be made of 25mm thick Pre-lam MDF board confirming to IS 12406:2003 with post forming on two sides and machine pressed PVC egde banding 2 mm thick glued with industrial adhesive and diffused with board monolithically on other two sides. The body of storage units shall be made of 0.8mm thick CRCA Sheet and skirting shall be of 1.2mm thick CRCA sheet confirming to IS 513: 2008 finished with epoxy polyster powder coated DFT 50-60 Micron.	Principal & Vice Principal Table		0			
2a	Table of Size 1800 W x 750 D x 750 H with Side Storage of Size 900W x 450W X 750H and Back Storage 1800 W x 450 D x 750H	Prinicipal Table		1	Each	57673	54789
2b	Table of Size 1650 W x 750 D x 750 H with Side Storage of Size 900W x 450W X 750H and Back Storage 1800 W x 450 D x 750H	Vice Principal Table		1	Each	50888	48344
2c	Office table with overall Size of desk 1350 x 750 x 750 mm & Side Storage Unit of size 900 x 450 x 750 mm	Office Table		6	Each	27819	158568
3	Office Table made of Pre-laminated table top of size 1199 X 590 X 735 mm with one drawer unit made of 0.5mm thick CRCA sheet. The table top shall be supported over legs consists of MS ERW round tube of 25.4 x 1.2mm and Cross Horizontal Members including Leg rest of 25.4 x 1.2 mm ERW tube. All steel components be shall be finised with epoxy polyster powder coated DFT 50-60 Micron.	Teacher's table		21	Each	6717	140385



Abstract of Furniture

Item No	Specification	Items	Sample Image	Quantity	Unit	Rate with 18% GST and 15% CP & OH	Amount with 18% GST and 15% CP & OH
4	<p>Supply and installation of 12 Seater Meeting Table of overall size 3600 x 1350 (Average) x 750 mm (Knock down construction). Table Top and Gable End shall be made of 25mm thick Pre-Laminated Particle Board with 2mm thick Machine pressed PVC edge banding glued with industrial adhesive and monolithically diffused.</p> <p>Supporting Understructure consists of 2 Metal C Legs on either ends of table support frame made of 50 x 50 x 1.6 mm MS ERW tube and One number Wire Carrier leg at middle of 50X50X1.6 mm. 4 numbers Horizontal connector of 40mm X 40mm X 1.6mm thick MS Pipe between supporting vertical legs. All The MS Pipes and Sheet shall be finished with epoxy powdercoated of DFT 50-60 Micron. C typed metal legs shall be kept 150 mm inside from from end of table. WIRE MANAGEMENT - The Vertical (snake) &amp; Horizontal(cable tray) wire carriers are placed below worktop, made up of CRCA with epoxy powder Coating &amp; Fixed to the understructure</p>	Meeting Table		2	Each	51772	98367
5	<p>Supply and Installation of Library Table in sizes of 2400 L x 900 W x 750 H mm consisting of following specification:-</p> <p>Work Top - Work top shall be made 25mm thick Prelam (One Side laminated) particle board confirming to IS 12823: 1990 post formed edge moulding on two sides and 2 mm thick Machine pressed PVC edge banding glued with industrial adhesive and monolithically diffused with board on other two sides.</p> <p>Understructure Supporting frame consists of Three Metal C Legs two either ends and one in middle of table made up of 50X50X1.6 mm and are joined by two numbers Horizontal connector made of 40mm X 40mm X 1.6mm thick MS Pipe between supporting vertical legs. All Metal Pipes and Sections are made up of CRCA steel confirming to IS 4932/513 and shall be finished with epoxy polyester powder coated DFT 50-60 Micron. C typed metal legs shall be kept 150 mm inside from from end of table. Legs shall be fitted to the ground with M8 screw leveler with the height adjustment up to 12mm to 15mm( Payment Shall be per running metre length)</p>	Library Table		10	Per Unit	14249	135366
6	<p>Supply and Installation of Computer Work Station of unit Size 750 mm X 600 mm X 750 mm.</p> <p>Work Top- Work top shall be made 25mm thick Prelam particle board with decorative lamination on one side and balancing lamination on other side confirming to IS 12823: 1990 with post formed edge moulding on one side and 2 mm thick Machine pressed PVC edge banding glued with industrial adhesive and monolithically diffused with board on other three sides.</p> <p>Understructure supporting frame consist of Metal C Legs type made up of 50 x 50 x 1.6mm and Wire Carrier leg of 50X50X1.6mm in placed alternatively and are connected with horizontal cross connectors of 40mm X 40mm X 1.6mm thick MS Pipe between supporting vertical legs. The MS Pipes shall be finished with epoxy powdercoated with DFT of 50-60 Micron confirming to IS 13871:1993. Legs shall be fitted to the ground with M8 screw leveler with the height adjustment up to 12mm to 15mm.</p> <p>Wire management-The Vertical /Electrical duct &amp; Horizontal Cable tray ( wire carriers) are made of CRCA &amp; fixed to the understructure below worktop with specially designed brackets. Provision for fixing Switch plates are provided in the cable tray for easy access through wire mangae or PVC grommet.</p> <p>Screens / privacy panel: - Screen height will be 300 above work-top made of prelam particle board/White Board alternatively as approved by Engineer-in-Charge</p>	Computer Work Station		34	Per Unit	12892	440906
7	<p>Supply and Installation of Library Open book Shelf (Single Side )of Sizes 1800 mm x 900 mm x 316 mm body made up of 0.8mm thick CRCA Sheet and skirting of 1.2mm thick CRCA sheet confirming to IS 513: 2008 with epoxy powder coated finish (DFT minimum 50-60 micron). Shelves shall also be made up of 0.8mm CRCA sheet confirming to IS 513: 2008 and fixed with CRCA sheet brackets of approved design . Number of adjustable shelf shall be five with six loading levels . Load bearing capacity of the shelf shall be 30Kgs UDL. The construction shall be aesthetically appealing completely welded. M10 screw leveler is given with height adjustment up to 12mm to 15mm</p>	One Side book Shelf		10	Per Unit	16963	161149




Abstract of Furniture

Item No	Specification	Items	Sample Image	Quantity	Unit	Rate with 18% GST and 15% CP & OH	Amount with 18% GST and 15% CP & OH
8	Supply & Placing of Glassdoor Storage of Size 916mm (W) x 486mm (D) x 1980mm (H). It should have shelf thickness of 0.7 mm, Back thickness of 0.8mm, Door thickness of 0.8mm (high yield strength) and all other components shall have a thickness of 0.9mm. These components shall be made of CRCA sheetmetal 'D' grade high yield strength as per IS:513. The glass door storwel shall have a brass handle and a 2 way locking mechanism with shooting bolt. It should have a height wise adjustable shelf mounting which shall have a Uniformly Distributed Load Capacity of max 40 Kg. It should also have a M10 Screw type Leveller with Hex plastic base.All metal components would be epoxy polyster powder coated DFT 50-60 Micron confriming to IS 13871:1993	Steel Glass Door Almira		6	Per Unit	32568	185638
9	Supply & Placing of Metal Almirah of Size 916mm(W)x486mm(D)x1980mm(H). It should have the shelf thickness of 0.7 mm, Back thickness of 0.8mm, Door thickness of 0.8mm (high yield strength) and all other components shall have a thickness of 0.9mm. These components shall be made of CRCA sheetmetal 'D' grade high yield strength as per IS:513. The Storwel Plain should have a Mazak handle and Three way locking mechanism with Shooting Bolts. It should have a height wise adjustable shelf mounting which shall have a Uniformly Distributed Load Capacity of max 40 Kg. It shall have 4 no.s full shelves. A4 size box file(85 W x 285 D x 345 H mm) can be stored vertically on three shelves and the clear space above fourth shelf is 240mm. It should also have a M10 Screw type Leveller with Hex plastic base. All metal components would be powder coated with epoxy powder	Steel Almira		10	Per Unit	28497	270722
10	Supply and Istallation of One 2- Seater Sofa of overall size( 1550 X 785 X 750 mm ) one 3-Seater Sofa of overall size (1950 X 785 X 750 mm ),understructure is made up of Natural Hard wood battens and 12mm THK COMMERCIAL PLYWOOD. High density foam is used for seat and back , The seat is made up of PU foam with density 32+/-2 Kg/m3 having an additional top layer of PU foam with density 28+/-2 Kg/m3, upholstered with leatherette. The back is made up of 28+/-2 Kg/m3 with additional top layer of PU foam with density 23+/-2 Kg/m3, upholstered with leatherete. LEATHERITE -ABRASION RESISTANCE in excess of 80,000 cycles, 600 to 650 GSM Legs shall be made Mild Steel (MS) powder coated with minimum 50-60 micron DFT confriming IS 13871:1993	Sofa Set 2 Seater + 3 Seater		1	Per Set	80144	76137
11	Supply and Installation of two 2- Seater Sofa ( 1550 X 785 X 750 mm ) ,understructure is made up of Natural Hard wood battens and 12mm THK COMMERCIAL PLYWOOD. High density foam is used for seat and back , The seat is made up of PU foam with density 32+/-2 Kg/m3 having an additional top layer of PU foam with density 28+/-2 Kg/m3, upholstered with leatherette. The back is made up of 28+/-2 Kg/m3 with additional top layer of PU foam with density 23+/-2 Kg/m3, upholstered with eatherette. LEATHERITE -ABRASION RESISTANCE in excess of 80,000 cycles, 600 to 650 GSM Legs shall be made Mild Steel (MS) powder coated with minimum 50-60 micron DFT confriming IS 13871:1993	Sofa Set 2 Seater + 2 Seater		2	Per Set	74744	142014



Abstract of Furniture

Item No	Specification	Items	Sample Image	Quantity	Unit	Rate with 18% GST and 15% CP & OH	Amount with 18% GST and 15% CP & OH
12	<p>Supply and installation of Steel bed of overall size 1775(L) x 875(W) x 650/450mm(H) consisting of following specification:-</p> <p><b>HEADBOARD:</b> Head Board consists of MS tube of 25 x 50 x 1.6 mm thick vertical legs connected with 2 number horizontal members of MS ERW tube 25x50x1.6mm thick and one number MS ERW tube of 25 x 25 x 1.6 mm at middle conforming to IS-Grade 4923. Construction is partially welded with MIG welding conforming to IS standard IS 816:1969 and is also tested as per the IS grade IS 822:1970. Legs shall be fitted to the ground with M8 screw leveler with the height adjustment up to 12mm to 15mm if required. Head Board and Tail board are connected to middle frame with 2 mm thick CRCA bracket conforming to IS 513: 2008. Connecting bracket is welded on vertical pipe. End to end dimensions for the Headboard is 875(W) x 650mm (H). Whole Assembly is finished with epoxy powder coated of a minium thickness of DFT 50-60 Micron conforming to IS 13871:1993.</p> <p><b>TAILBOARD-</b>Tail Board consists of vertical legs of MS ERW tube of 25x50x1.6mm thick connected with one number horizontal MS pipe 25x50x1.6mm thick Conforming IS-Grade 4923. Construction is partially welded with MIG welding conforming to IS standard IS 816:1969 and welding is also tested as per the IS grade IS 822:1970. Legs shall be fitted to the ground with M8 screw leveler with the height adjustment up to 12mm to 15mm if required .To connect Tailboard with middle frame 2mm thick CRCA sheet bracket is used conforming IS 513: 2008 . Connecting bracket is welded on vertical pipe. End to end dimensions for the Tailboard is 870(W)x450mm(H). Whole Assembly is finished with epoxy powder coated of a minium thickness of DFT 50-60 Micron conforming to IS 13871:1993.</p> <p><b>Bed Staging-</b> Head board and Tail board are joined together by bed stage made up of 12 mm Merine grade ply supported over steel framework consisting of two outer MS ERW Pipe 25x50x1.2mm thick and 04 numbers cross bracing of MS ERW pipe of 25x25x1.2mm thick in middle conforming IS-Grade 4923 and welded to each other by MIG welding. End to end dimensions for the middle frame is 1775(L) x 875mm(W) for mattress size of</p>	Metal Bed		234	Each	11535	2695730
13	<p>Metal Table with Integrated Storage 1750(L) x 600(W) x 750(H) for two students</p> <p>Work Top Shall be made up of 25mm thick Prelam (OSL) particle board conforming to IS 12823: 1990 with post formed edge moulding on one side and 2 mm thick Machine pressed PVC edge banding glued with industrial adhesive and monolithically diffused with board on other three sides.</p> <p>Supporting Structure of table top consists of 4 vertical Legs of ERW tube 40 x 40 x 1.6 mm and one storage unit at middle. The vertical legs are connected with 2 cross horizontal members of size ERW Tube of 25 x 25 x 1.6 mm provided at top. The table shall have provisions of foot rest made up of 25 x25 x1.2 mm ERW pipe fitted in between two vertical legs and also support the storgae unit &amp; acts as bracing member. All ERW pipes shall confirm to IS grade IS 4923 and shall be finised with epoxy polyster powder coated DFT 50-60 Micron Confirming IS 13871:1993.</p> <p><b>Drawer Unit: SPECIFICATIONS :-</b></p> <p>Table shall have 2 numbers of Metal Storage consiting of Shutter of size consiting of 350 (W ) x 550 (D) x 280 (H) mm Pad Lock provision . All metal component including shutter and Shelf shall be made of 0.8mm thick CRCA confirm to IS grade IS 4923 and shall be powder coated with epoxy powder coating of 50 micron DFT Confirming IS 13871:1993.</p>	Metal Table with Integrated Storage 1750(L) x 600(W) x 750(H).		114	Each	12892	1469688





Abstract of Furniture

Item No	Specification	Items	Sample Image	Quantity	Unit	Rate with 18% GST and 15% CP & OH	Amount with 18% GST and 15% CP & OH
14	<p>SS Dinning Table consists of Dinning Top is made up of and 1 mm thickness Stainless steel sheet of SS 304 Grade with overall dimension of 2400(L) X 760(D) X 750(H). The table top is reinforced with a 18 mm HDHMR Board. Dinning top sheet shall be extended to the sides for a depth of 24 mm in all directions including , edge rounding, grining and finishing ,etc all complete . The Table top shall finish in such a manner to avoid any sharp edges.</p> <p>Supporting understructure of table consists of 4 numbers Leg frame made up of 40 x40 x1.6 mm ERW tube and are connected to 6 numbers horizontal members of MS ERW tube 25 x 25 x 1.6 mm.</p> <p>Stool Seats are made of 300 mm dia SS 202 Grade formed Plates of 1 mm thickness resting over welded 12 mm HDHMR which in turn supooorted over 3 mm thick MS Plate weled to vertical supporting leg.</p> <p>The supporting vertical member of each stool seat consists of MS ERW tube 25 x 25 x 1.6 mm and is connected to C legged frame of table top. All Metal components of entire assebmly confirm to IS 4923. Both the horizontal and vertical pipes are welded together by MIG welding confirming to IS standard IS 816:1969 and is tested for welding confirming to IS 822:1970. All CRCA Componets would be shall be finised with epoxy polyster powder coated DFT 50-60 Micron confirming IS 13871:1993.</p> <p>Understructure height will be 725mm from the ground, the stool height will be 500mm from the ground &amp; foot rest</p>	8 Seater SS Top Fixed Canteen Table 2400 x 750		4	Each	55637	211421
15	<p>SS Dinning Table consists of Dinning Top is made up of and 1 mm thickness Stainless steel sheet of SS 304 Grade with overall dimension of 1800(L) X 760(D) X 750(H). The table top is rainforced with a 20 mm HDHMR Board. Dinning top sheet shall be extended to the sides for a depth of 24 mm in all directions including , edge rounding, grining and finishing ,etc all complete . The Table top shall finish in such a manner to avoid any sharp edges.</p> <p>Supporting understructure of table consists of 3 numbers Leg frame made up of 40 x40 x1.6 mm ERW tube and are connected to 4 numbers horizontal members of MS ERW tube 25 x 25 x 1.6 mm.</p> <p>Stool Seats are made of 300 mm dia SS 202 Grade formed Plates of 1 mm thickness resting over welded 12 mm HDHMR which in turn supooorted over 3 mm thick MS Plate weled to vertical supporting leg.</p> <p>The supporting vertical member of each stool seat consists of MS ERW tube 25 x 25 x 1.6 mmn and is connected to C legged frame of table top. All Metal components of entire assebmly confirm to IS 4923. Both the horizontal and vertical pipes are welded together by MIG welding confirming to IS standard IS 816:1969 and is tested for welding confirming to IS 822:1970. All CRCA Componets shall be finished with epoxy polyster powder coated DFT 50-60 Micron confirming IS 13871:1993.</p> <p>Understructure height will be 725mm from the ground, the stool height will be 500mm from the ground foot rest</p>	6 Seater SS Top Fixed Canteen Table 1800 x 750		29	Each	48852	1392282
16	<p>Supply and installation of Lab Stool Seat made up of 300 mm dia SS 202 Grade formed Plates of 1 mm thickness welded over 3 mm thick MS Plate. The Stool seat is supported by four legs 19x19x1.2mm SQUARE Pipe. Stool shall be provided with foot rest made of 19 x 19 x 1.2 mm thick MS Tube at a height of 100 mm from ground. Height of stool is st from the ground shall be 540. Legs are provided with PU/PVC leveller at the bottom. All MS CRCA Componets are confirming to IS 4923 and finished with epoxy powder coated finish (DFT Minimum 45 micron) Confirming IS 13871:1993.</p>	Lab Stool		86	Each	3094	267476

Abstract of Furniture



Item No	Specification	Items	Sample Image	Quantity	Unit	Rate with 18% GST and 15% CP & OH	Amount with 18% GST and 15% CP & OH
17	<p>Supplying &amp; placing in position Executive Chair as per indicative photograph and specification:</p> <p>(i) SEAT/BACK ASSEMBLY: The seat and back should be made up of 1.2 ±0.1cm. thick hot-pressed plywood and upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam should be designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area.</p> <p>BACK SIZE 47.5 cm. (W) x 69.5 cm (H)</p> <p>SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D)</p> <p>(ii) HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam should be moulded with density = 45±2 kg/m<sup>3</sup> and hardness load 16 ± 2 kgf for 25% compression.</p> <p>(iii) ARMRESTS :The one-piece armrests should be injection moulded from black Co-polymer Polypropylene.</p> <p>(iv) CENTER TILT SYNCHRO mechanism: The mechanism should be designed with the following features:                      • 360° revolving type. • Upright-position locking • Tilt tension adjustment • Seat/back tilting ratio of 1:3.</p> <p>(v).PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment has an adjustment stroke of 12.0 ±0.3cm.</p> <p>(vi).TELESCOPIC BELLOW ASSEMBLYThe bellow should be 3 piece telescopic type and injection moulded in black Polypropylene.</p> <p>(vii).PEDESTAL ASSEMBLY:The pedestal should be injection moulded in black 33% glass-filled Nylon-66 and fitted with 5 nos. twin wheel castors. The pedestal should be 66.3 ±0.5cm. pitch-center dia. (76.3 ±1.0cm with</p>	High Back Chair		1	Each	14775	14036
18	<p>Supply &amp; Installation of Medium Back Chair as per indicative photograph and specification:</p> <p>(i) SEAT/BACK ASSEMBLY: The seat and back should be made up of 1.2 ±0.1cm. thick hot-pressed plywood and upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam should be designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area</p> <p>BACK SIZE 47.5 cm. (W) x58.0 cm (H)</p> <p>SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D)</p> <p>(ii) HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam should be moulded with density = 45±2 kg/m<sup>3</sup> and hardness load 16 ± 2 kgf for 25% compression.</p> <p>(iii)ARMREST- The one-piece armrests should be injection moulded from black Co-polymer Polypropylene.</p> <p>(iv) CENTER TILT SYNCHRO mechanism: The mechanism should be designed with the following features:                      • 360° revolving type. • Upright-position locking • Tilt tension adjustment • Seat/back tilting ratio of 1:3.</p> <p>(v)PNEUMATIC HEIGHT ADJUSTMENT: The pneumatic height adjustment has an adjustment stroke of 12.0 ±0.3cm.</p> <p>(vi).TELESCOPIC BELLOW ASSEMBLY : The bellow should be 3 piece telescopic type and injection moulded in black Polypropylene.</p> <p>(vii).PEDESTAL ASSEMBLY:The pedestal should be injection moulded in black 33% glass-filled Nylon-66 and fitted with 5 nos. twin wheel castors. The pedestal should be 66.3 ±0.5cm. pitch-center dia. (76.3 ±1.0cm with castors).</p> <p>(viii).TWIN WHEEL CASTORS:The twin wheel castors should be injection moulded in Black Nylon.</p>	Medium Back Chair		1	Each	13209	12549

Abstract of Furniture

Item No	Specification	Items	Sample Image	Quantity	Unit	Rate with 18% GST and 15% CP & OH	Amount with 18% GST and 15% CP & OH
19	<p>Supply &amp; Installation of Medium Back Chair as per indicative photograph and specification:</p> <p>(i).SEAT/BACK ASSEMBLY: The seat and back should be made up of 1.2 ±0.1cm. thick hot-pressed plywood and upholstered with fabric upholstery covers and moulded Polyurethane foam. The back foam should be designed with contoured lumbar support for extra comfort. The seat has extra thick foam on front edge to give comfort to popliteal area. BACK SIZE 47.5 cm. (W) x58.0 cm (H) SEAT SIZE 47.0 cm. (W) x 48.0 cm. (D)</p> <p>(ii).HIGH RESILIENCE (HR) POLYURETHANE FOAM: The HR polyurethane foam should be moulded with density = 45±2 kg/m<sup>3</sup> and hardness load 16 ± 2 kgf for 25% compression.</p> <p>(iii) ARMRESTS :The one-piece armrests should be injection moulded from black Co-polymer Polypropylene.</p> <p>(iv)TUBULAR FRAME: The powder coated ( DFT 40-60 microns ) tubular frame should be cantilever type &amp; made of 0 2.54 ±0.03cm. x 0.2 ±0.016cm.thk. M.S. ER.W. Tube.</p>	Visitor Chair		50	Each	10002	503601
20	<p>Supply and placing of chair with MOULDED PLY SHELL: The Nosh shell is made up of moulded ply in Veneer or Laminate finish. Shell size - 420 mm (W) X 410 mm (D) X 440 (H) X Thickness 12 mm. UNDERSTRUCTURE: The Understructure is made up of Diameter 19 x 1.6 mm thk and 2mm MS plate welded with it. Powder Coating done in Texture Metallic Silver Color having DFT – 50 to 80 micron.</p>	Chair without arm		228	Each	2918	665304
21	<p>Supply and installation of Wooden chair of Dimension - 480W x 420D x 820H UNDERSTRUCTURE:The Understructure is made from Hot pressed rubber wood. BACKREST: The backrest is made up of plywood and foam upholstered with polyester fabric. SEAT:The seat is made up of 12mm thick (7 layers) hot pressed plywood and moulded seat foam upholstered with fabric. SEAT FOAM:Foam made out of moulded Polyurethane foam with the following properties: • Density (IS-7888-1976) : 50-55 Kg/m<sup>3</sup>.• Hardness: 28+/-3 Kgf. • Compression set (IS-7888-1976): 10% Max. • Tensile strength (IS-7888-1976): 0.9-1.2 Kg/cm<sup>2</sup>• Tear strength(Min) (IS-8067) : 0.6 Kg/cm(min)• Resilience (IS-7888-1976): 40% - 60% • Elongation (IS-7888-1976): 110 % GLIDE:The glide is made from Nylon. SEAT AND BACK FABRIC PROPERTIES: Content: 100% Polyester 170 GSM Abrasion Resistance:Over 30000 cycle.Bursting Strength: 19.1 kg/cm<sup>2</sup>Tear Strength (NF):</p>	Chair without arm		128	Each	4275	548269
21	<p>Supply and installation of Metal Lockers with Cam Lock - 381W x 381D x 1831H with 4 Lockers. Body-LH and RH Side and back panel is made up of 0.8mm thick CRCA sheet confirming to IS 513:2008 which is having standard dimension 1831 x380mm. Shelf hanging bracket is welded on both the side panel by spot welding. Shelf hanging bracket is made up of 0.8mm thick CRCA sheet confirming to IS 513:2008. front frame top and bottom part made up 0.8mm thick CRCA sheet confirming to IS 513:2008 and horizontal part is made up 1mm thick CRCA sheet confirming to IS 513:2008. On a front frame horizontally provision is given at a common distance to hold shutter bracket. Locker's top is made up of 0.8mm thick CRCA sheet confirming IS 513:2008 which is having standard dimension 375 x378mm. Shelf is also made up of 0.8 mm CRCA sheet confirming to IS 513:2008. Shutter- Is made up on 0.7mm thick CRCA sheet confirming to IS 513:2008. All the shutter are hung on shutter pin and shutter bracket, louvers are given shutter for air flow. PVC flush handle and name plate is used for handling and for name plate tagging. Standard PAD/CAM lock is used for locking each shutter. The bodies including shelves are given anti-rust surface treatment &amp; are powder coated with epoxy polyester powder coating of DFT 50-60 Micron confirming to IS 13871:1993.</p>	Personal Locke Unit		8	Per Unit	14723	111895



Abstract of Furniture

Item No	Specification	Items	Sample Image	Quantity	Unit	Rate with 18% GST and 15% CP & OH	Amount with 18% GST and 15% CP & OH
22(a)	<p>Super White' writing grade resin coated steel writing surface conforming to International Standards. A 100% smooth and 100% scratch-free surface ensures maximum pleasure of writing. The surface can also be used for sticking magnets or magnet impregnated objects</p> <p>Satin-finish alloy aluminum (6063-T6) frame and precision engineered paper honeycomb core to make the board 100% warp-free and 100% flat. Can be mounted in landscape as well as portrait orientation on a wall with the help of built-in wall hanging clips</p> <p>Excellent erasability with no ghost-marks, high scratch-resistance with easy- wipe properties and maximum readability with minimum glare makes the Genius series boards an ideal companion for all training, teaching, display and learning activities</p> <p>Material: Resin Coated Steel Writing Surface, Alloy Aluminum Frame, Paper Honeycomb Core &amp; Virgin ABS Corners.</p>	Magnetic White Board- 6' x 4'		4	Each	14099	53576
22(b)	<p>'Green' writing grade melamine writing surface (chalk sheet) conforming to IS:2046/1997. A 100% clean and 100% scratch-free surface ensures maximum pleasure of writing. The surface cannot be used for sticking magnets or magnet impregnated objects</p> <p>Satin-finish alloy aluminium (6063-T6) frame and precision engineered paper honeycomb core to make the board 100% warp-free and 100% flat. Can be mounted in landscape as well as portrait orientation on a wall with the help of built-in wall hanging clips</p> <p>Excellent erasability with no ghost-marks, high scratch-resistance with easy- wipe properties, maximum readability with minimum glare and minimum chalk dust formation with clean &amp; continuous lines of chalk, makes the Genius series boards an ideal companion for all training, teaching, display and learning activities</p> <p>Board Size: 8x4 Feet (2400x120 CM). Suitable for use at home, home offices, offices and schools. Works well with all standard chalk sticks</p>	Melamine Surface Non-Magnetic Chalk Board- 8' X 4'		17	Each	11579	198001
<b>Total Basic (X)</b>							<b>1,25,02,501</b>

ABSTRACT OF COST (Kitchen Machinery)

S. No.	CODE	Description of works	SIZE	Quantity		BASIC UNIT RATE (without GST) (in Rs.)	Complete Rate including (GST 12%, Installation and Transportation 5% and Contractor Profit15%)	Amount (in Rs.)
1	01	SITC of SS One Burner STOCK POT RANGE Comprising: 16Ga. SS 304 GR Top, Body 20 Ga. 304 GR SS, 1 no. 400mm x 400mm Cast iron pan support, 1 no. burner with pilot lamp, 1 no. 20 Ga. SS drip tray with handle, 38mm SQ 16 Ga. SS pipe legs. With adjustable bullet feet. 100mm setback Body/legs for Gas pipe routing.	24 X 24 X 26 (inches)	3	Nos.	11200	15146.88	45440.64
2	02	SITC of SS 2 BURNER INDIAN COOKING RANGE Comprising: 16Ga. SS 304 GR Top, Body 20 Ga. 304 GR SS, 2 no. 400mm x 400mm Cast iron pan support, 2 no. burner with pilot lamp, 2 no. 20 Ga. SS drip tray with handle, 38mm SQ 16 Ga. SS pipe legs. With adjustable bullet feet. 100mm setback Body/legs for Gas pipe routing.	44 X 24 X 34 (inches)	1	No.	22500	30429	30429
3	03	SITC of SS SINGLE SINK UNIT Comprising: 16 Ga. SS 304 GR Top, 150mm High Rear splash, Top provided with One (1) no. 450mm x 450mm x 250mm deep of 16 Ga. S.S. 304 GR Sink Complete with 50mm dia lever handle operated waste outlet, 38mm SQ 16 Ga. SS legs. With adjustable feet. With three side cross bracing.	24 X 24 X 34+6 (inches)	1	No.	12000	16228.8	16228.8
4	04	SITC of SS TILTING TYPE BULK COOKER Comprising: Inner Cell of bottom 4 mm & side wall 1.5 mm thick Stainless Steel 304 grade, Outer wall- made of 18 GA SS 304 grade, Lid - 18 GA SS 304 grade with Heavy Duty Spring loaded for Easy open & close with SS Handle, Panels - made of 20 GA SS 304 grade, Stand - SS Pipe 50mm x 50mm,16GA. Tilting arrangement - On wheel with Gear arrangement and Interlock Brake.	200 LTRS (Capacity)	1	No.	79000	106839.6	106839.6
5	05	SITC of SS TILTING TYPE BOILING PAN Comprising: Inner Cell of bottom 4 mm & side wall 3 mm Stainless Steel 304 grade, Outer wall- made of 18 GA SS 304 grade, Lid - 18 GA SS 304 grade with Heavy Duty Spring loaded for Easy open & close with SS Handle, Panels - made of 20 GA SS 304 grade, Stand - SS Pipe 50mm x 50mm,16GA. Tilting arrangement - On wheel with Gear arrangement and Interlock Brake.	200 LTRS (Capacity)	1	No.	75000	101430	101430
6	06	SITC of SS SPICE TROLLEY Comprising: 16 Ga.304 SS Top all side turned up 50mm, Two (2) no Full width 18 Ga. SS 304 grade Bottom shelves.Four (4) no. 100mm dia uprights on	18 X 24 X 34 (inches)	2	No.	11000	14876.4	29752.8

## ABSTRACT OF COST (Kitchen Machinery)

S. No.	CODE	Description of works	SIZE	Quantity		BASIC UNIT RATE (without GST) (in Rs.)	Complete Rate including (GST 12%, Installation and Transportation 5% and Contractor Profit15%)	Amount (in Rs.)
7	07	SITC of SS WORK TABLE WITH 1 Bottom Shelf Comprising: 16 Ga. 304 SS Top. All sides turned down 50mm & in 12mm. 18 Ga. SS 304 Bottom shelves. Four (04) no. 38mm sq SS legs. With adjustable bullet feet.	44 X 24 X 34 (inches)	7	No.	11500	15552.6	108868.2
8	08	SITC of CHAPATI HOT PLATE Comprising: Full 12 mm thick MS Plate with LHS puffer plate, Exterior 20 Ga. SS 304 cladding, Built-in pressure Controller regulator, 38mm SQ 16 Ga. SS pipe legs with adjustable bullet feet.	52 X 26 X 34 (inches)	2	No.	34500	46657.8	93315.6
9	09	SITC of SEMI AUTOMATIC CHAPATI MAKING MACHINE Comprising: Gas operated, with all gas fittings, burners and necessary electric motor of rating 0.75 KW, 220V ISI mark all complete.	800 Pcs /Hrs (capacity)	1	No.	223000	301585.2	301585.2
10	10	SITC of CONVEYOR TYPE TOASTER Comprising: SS 20 GA body with necessary electrical motor and heating element of Power : 1.5 kw, 220V etc with timer controller all complete ISI marks.	120-150Pcs /Hrs (Capacity)	2	Nos.	33000	44629.2	89258.4
11	11	SITC of SS 4 DOOR VERTICAL CHILLER Comprising: Exterior/Interior wall of 20 Ga. 304 grade SS cladding, Internal temp range from 0 Deg to + 4 Deg Celsius, With doors 20 GA Inside and 18 GA. 304 grade SS outside Four (4) Nos. half size Insulated self closing type SS doors, complete with handle, gasket, Compressor (Emerson or equivalent make) & Controls 1 KW-220 V AC with adjustable bullet feet.	48 X 28 X 78 (inches) 900 LTRS capacity	2	Nos.	108000	146059.2	292118.4
12	12	SITC of DEEP FREEZER: 50mm thick PU foam on all sides with plastic material body. Brand - Voltas or equivalent rating 1 KW 220 V AC all complete as per manufacturer specifications	500 LTRS (Capacity)	1	No.	35000	47334	47334
13	14	SITC of DRY MASALA GRINDER Comprising: SS Jar of Capacity 5 kg, with electric motor of Power rating : 1/2 Hp, 220V of ISI mark all complete as per manufacturers specification .	5 KG (Capacity)	1	No.	17000	22990.8	22990.8
14	15	SITC of PULVERISER Comprising: 20 GA SS body, electrically operated with electric motor of Power : 2 HP, 220V of ISI mark, etc all complete as per manufacturer specifications.	2 HP	1	No.	15500	20962.2	20962.2
15	16	SITC of DOUGH KNEADER- Comprising: 16 GA bowl of SS and 20 GA SS body, electrically operated with motor of Power : 2 HP, 220V of ISI mark, etc all complete as per manufacturer specifications.	20 LTRS (Capacity)	1	No.	52000	70324.8	70324.8

ABSTRACT OF COST (Kitchen Machinery)

S. No.	CODE	Description of works	SIZE	Quantity		BASIC UNIT RATE (without GST) (in Rs.)	Complete Rate including (GST 12%, Installation and Transportation 5% and Contractor Profit 15%)	Amount (in Rs.)
16	18	SITC of SS 6 VESSEL HOT BAIN MARIE WITH 1/1 Gastro-Norm PAN WITH FRONT TRAY RAIL Comprising: 16 Ga. SS 304 Grade Top, 1No tank 16 Ga.304 SS grade Bain Marie complete with water outlet, 4.0 k.w. heating element, 6 no. Gastro-Norm 1/1 Pan, 150mm deep with lid, Front Pipe Trai Rail, Full length 18 Ga. SS 304 grade Bottom shelve, Electrical panel complete with thermostat, on-off switch & light indicator with 4 No. 38mm sq.	84 X 26+12 X 34 (inches)	2	Nos.	52000	70324.8	140649.6
17	18A	SITC of SS 6 VESSEL HOT BAIN MARIE WITH 1/1 Gastro-Norm PAN WITH FRONT TRAY RAIL Comprising: 16 Ga. SS 304 Grade Top, 6 no. Gastro-Norm 1/1 Pan, 150mm deep with lid, Front Pipe Trai Rail, Full length 18 Ga. SS 304 grade Bottom shelve, with 4 No. 38mm sq. pipe 16 GA SS legs with adjustable bullet feet,all complete.	84 X 26+12 X 34 (inches)	2	Nos.	42000	56800.8	113601.6
18	19	SITC of PLATFROM TROLLY Comprising: 16 GA 25 mm dia SS 304 grade pipe pulling/pushing arrangement, 16 GA.304 SS platform Top all side turned down 50mm, Four (4) no. 100mm dia uprights on Castors	34 X 24 X 34 (inches)	3	Nos.	14500	19609.8	58829.4
19	20	SITC of KITCHEN UTILITY TROLLY Comprising: 16 GA 25 mm dia SS 304 grade pipe pulling/pushing arrangement, 16 GA.304 grade SS top all side turned up 50mm, Two (2) no Full width 18 Ga. SS 304 grade Bottom shelves with Four (4) no. 100mm dia uprights on Castors all complete.	34 X 24 X 34 (inches)	2	Nos.	16000	21638.4	43276.8
20	21	SITC of SS POT RACK - 4 SHELF Comprising: Four (4) nos 20mm x 20mm x 16 Ga. SS squire pipe Grade 304 SS Shelves welded to SS square pipe uprights with 38mm x 38mm x 16GA 304 grade SS squire pipe, upright with adjustable bullet feet all complete.	60 X 30 X 66 (inches)	2	Nos.	28450	38475.78	76951.56
21	22	SITC of SS STORAGE RACK - 4 SHELF Comprising: 18 Ga. 304 grade SS Shelves four (4) nos with frame of four nos. vertical angles size 38 x38x 3 mm of SS grade 304 all complete.	44 X 16 X 66 (inches)	6	Nos.	14500	19609.8	117658.8
22	23	Supplying of HDPE PALLET of capacity 2200 to 2500 kg, High Density Polyethylene material all c	48 X 40 X 8 (inches)	4	Nos.	7000	9466.8	37867.2
23	24	SITC of POTATO MILLER Comprising: 20 GA SS body, electrically operated with electric motor of Power : 2 HP, 220V of ISI mark, all complete as per manufacturer specifications.	20 KG (Capacity)	1	No.	38000	51391.2	51391.2
		<b>KITCHEN VENTELATION SYSTEM</b>		0			0	0
24	V1	SITC of SS HOOD WITH SS FILTER Comprising: 22 GA. SS Welded Body Construction, with Removable 20 GA. SS "V" section filters set in continuous channel, to be suspended on ceiling with hanger rods of sufficient capacity all complete.	54 X 30 X 24 (inches)	1	No.	20000	27048	27048
25	V2	SITC of SS HOOD WITH SS FILTER Comprising: 22 GA. SS Welded Body Construction, Removable 20 GA. SS "V" section filters set in continuous channel, To be suspended on ceiling with hanger rods of sufficient capacity all complete.	36 X 30 X 24 (inches)	3	Nos.	13000	17581.2	52743.6

## ABSTRACT OF COST (Kitchen Machinery)

S. No.	CODE	Description of works	SIZE	Quantity		BASIC UNIT RATE (without GST) (in Rs.)	Complete Rate including (GST 12%, Installation and Transportation 5% and Contractor Profit 15%)	Amount (in Rs.)
26	V5	SITC of GI DUCTING FOR HOT AIR SUCTION Comprising: 22 GA. GI sheet ducting as per requiremt as site requirement all complete.	46 SQM	46	SQM	1388	1877.1312	87192.7442
27	V6	SITC of FAN FOR HOT AIR SUCTION Comprising: Electric Motor of Comptron or equivalent make - 3 HP Power/ 2.25 KW, 440V ISI mark as per manufacturer specifications complete.	3 HP AXIAL (motor Capacity)	1	No.	39000	52743.6	52743.6
		<b>KITCHEN LPG SYSTEM</b>		0			0	0
28	L1	SITC of 10 CYLINDER (5 X 2 = 10) LPG GAS MANIFOLD SYSTEM WITH ALL FITTINGS COMPLITE SET Comprising:	10 CYLINDER (capacity)	10	Nos.	2200	2975.28	29752.8
29	L2	SITC of 1/2" DIA LPG PIPE LINE FROM MANIFOLD TO ALL LPG EQUIPMENTS WITH CONNECTION COMPLITE SET Comprising:	60 Metre APPROX	61	SQM	1935	2616.894	159630.534
<b>Total amount with GST12%</b>								<b>2426215.88</b>