

Name of work		<b>Structural Repairs &amp; Upgradation Work of Existing Swami Vivekananda Municipal School, Kajupada, Borivali (E), R/C Ward.</b>							
Prepared by		<b>Sahastrakala Architects and Engineers</b>							
Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
<b>1. DISMANTLING &amp; DEMOLITION WORK</b>									
1	R2-CS-DD-65	Removing cement plaster of any finish from the wall, complete with racking out the joints to a depth of 20 mm.							
		Quantity same as R2-CS-PL-09-c					400.00		
		Quantity same as R2-CS-PL-05					65.00		
		Quantity same as R2-CS-PL-17-c					461.00		
							<b>926.00</b>		
		Add 5% Extra					46.30		
							<b>972.30</b>		
<b>Total</b>							<b>972.00</b>	<b>Sqm.</b>	
2	R2-CS-DD-64	Removing mosaic, cement marble, granites non-slippery, tandur, kotah, shahabad stone or Indian Pattern stone, glazed tiles in flooring and dado including bedding brick bat coba etc., and delivering materials in Ward Office and carting away unserviceable materials.							
		Quantity same as R2-CS-FL-01-c					269.38		
		Quantity same as R2-CS-FL-38-d					43.94		
		Quantity same as R2-CS-FL-21-d					253.36		
		Quantity same as R2-CS-FL-07-d					48.91		
		Quantity same as R2-CS-FL-32-a					170.76		
		Quantity Same as R2-CS-FL-01-a					34.37		
							<b>820.71</b>		
		Add 5% Extra					41.04		
							<b>861.75</b>		
<b>Total</b>							<b>862.00</b>	<b>Sqm.</b>	
3	R2-CS-DD-54	Cutting down masonry work in lime or cement mortar including plaster etc. complete.							
		<b>Structure No. 2</b>							
		Existing H.M. Room (Ground Floor)	1	3	0.23	3.28	2.26		
		Boys Toilet (Ground Floor)	1	2.42	0.15	2.1	0.76		
		<u>Deductions</u>							
		Door, D3	-2	0.7	0.15	2	-0.42		
			1	1.7	0.15	2.1	0.54		
		Girls Toilet (Ground Floor)	1	2.42	0.15	2.1	0.76		
		<u>Deductions</u>							
		Door, D3	-2	0.7	0.15	2	-0.42		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
			1	1.7	0.15	2.1	0.54		
		Existing H.M. Room (First Floor)	1	1.8	0.23	2.8	1.16		
		<u>Deductions</u>							
		Door, D3	-1	1.2	0.15	2	-0.36		
		Pump Room	2	2.25	0.15	2	1.35		
			1	3.2	0.15	2	0.96		
		<u>Deductions</u>							
		Door, D3	-2	0.7	0.15	2	-0.42		
							<b>6.71</b>		
		Add 5%					0.34		
							<b>7.04</b>		
<b>Total</b>							<b>7.00</b>	<b>Cum.</b>	
4	R2-CS-DD-38-a	Dismantling G.I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 metres lead as per direction of Engineer-in-charge :15 mm to 40 mm nominal bore							
		Same as							
		CS-PS-88-a 15MM					40.00		
		CS-PS-88-b 20MM					40.00		
		CS-PS-90-c 25MM					20.00		
		CS-PS-90-d 32MM					20.00		
<b>Total</b>							<b>120.00</b>	<b>Rmt.</b>	
5	R2-CS-PS-167-c	Dismantling of old S.W. pipes including breaking of joints and bed concrete stacking of useful materials near the site within 50m lead and disposal of unserviceable materials into municipal dumps: upto 200 dia.							
		For UG drainage lines	1	10.00			10.00		
<b>Total</b>							<b>10.00</b>	<b>Rmt.</b>	
6	R2-CS-CW-54	Chipping /removing loose concrete upto reinforcement bars, without damaging the reinforcement, removing all the loose materials and to make all the exposed surfaces free from oil, dust and all impurities etc complete.							
		Polymer Upto 15mm Thick					30.00		
		Polymer Upto 30mm Thick					62.00		
<b>Total</b>							<b>92.00</b>	<b>Sqm.</b>	

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
7	R2-CS-CW-55	Removing corrosion of steel reinforcement by mechanical means like wire brushing, chipping to remove loose rust and then applying rust removal solution by using brush application, leaving the surface for at least 15 to 30 minutes, then removing loose materials by scrubbing or with brush and applying polymer bond to the old concrete surface before applying Polymer mortar.							
		Polymer upto 15mm					30.00		
		Polymer upto 30mm					62.00		
<b>Total</b>							<b>92.00</b>	<b>Sqm.</b>	
8	R2-CS-RW-10	Removing Existing Mangalore tiles / AC / GI / Galvalume Sheets/polycarbonate plain and corrugated sheets from roof / cladding / partitions etc., excluding supporting structure but including scaffolding, handling, transporting, sorting and stacking at site lead up to 150m and or disposing etc complete as directed.							
		Same as providing					323.00		
<b>Total</b>							<b>323.00</b>	<b>Sqm.</b>	
9	R2-CS-DD-23-b	Removing existing R.C.C. jallies of any design & deposit to ward store complete							
		At Staircase	3	0.60		0.90	1.62		
			3	0.60		1.80	3.24		
		At First Floor Passage (Structure No. 2)	3	0.45		1.80	2.43		
		At Water Trough	1	1.60		1.80	2.88		
		At Ground Floor Toilet Block	9	0.60		0.90	4.86		
		<b>Total Quantity</b>					<b>15.03</b>		
<b>Say Total</b>							<b>15.00</b>	<b>Sqm.</b>	

## 2. EARTH WORK

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
10	R2-CS-EW-1	Excavation for foundations, substructures, basements, tanks, sumps, walls, chambers, manholes, trenches, poles, pits & general building works in all types of soils, vegetable earth, soft murum, running sand, shingle, turf clay, loam, peat, ash, shale, slag, chalk, garbage, muddy/ marshy/ slushy soil, marine clay, reclaimed land etc. for depths/lifts upto 1.5M measured from the ground level, including dressing/ trimming the sides, leveling and ramming of bottoms, manual dewatering, removing rank vegetation, backfilling in layers not more than 200mm thickness, watering, consolidating, compacting to achieve not less than 97% Modified Proctor density conforming to relevant IS, stacking the selected material in measurable heaps for future use within owners space or disposing within an initial lead of 150m as directed, loading, unloading, leveling excluding shoring, strutting etc. complete as directed by Engineer- in-Charge. Note: 1) The rate includes the handling / supporting the existing utilities such as cables, drains, pipes, water mains etc. 2) It also includes the royalty and other taxes applicable if any.							
		For H.M. Room 2 (At Structure No. 2)	1	2.97	3.08	0.9	8.23		
		For Ecoflex	1	3.00	6.00	0.3	5.40		
		Overhead water tank	4	0.30	0.30	0.3	0.11		
		For Underground S.W. Line	1	5.00	0.30	0.5	0.75		
							<b>14.49</b>		
<b>Say Total</b>							<b>14.50</b>	<b>Cum.</b>	
11	R2-CS-EW-27	Providing & Laying 150 mm thick dry stone Rubble Soling with average 150 mm size hard stone set in regular lines, handpacked and interstices thoroughly filled with small chips including filling in with good quality murum brought from outside, compacting with iron rammers, watering, sand spreading 12mm thk. layer of grit on top etc complete as directed by Engineer In Charge. (Note: The rate includes the royalty and other taxes if any)							
		For Ecoflex	1	3.00	6.00		18.00		
		For Underground SW Line	1	5.00	0.45		2.25		
		For H.M. Room 2 (At Structure No. 2)	1	2.97	3.08		9.15		
		Overhead water tank	4	0.3	0.3		0.36		
							<b>29.76</b>		
<b>Say Total</b>							<b>30.00</b>	<b>Sqm.</b>	
<b>3. CONCRETE WORK</b>									
12	R2-CS-CW-1-c	Providing and laying in position plain cement concrete of specified grade with trap/granite/quartzite/gneiss metal mixing in concrete mixer including bailing out water, compacting, finishing surface, curing and including the cost of centering and shuttering at all level: Nominal Mix of 1:3:6 (1 Cement OPC: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).							

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		For H.M. Room 2 (At Structure No. 2)	1	2.97	3.08	0.1	0.91		
		For Ecoflex	1	3.00	6.00	0.1	1.80		
		Overhead water tank	4	0.30	0.30	0.15	0.05		
							2.77		
		Add 5% Extra					0.14		
							2.91		
<b>Say Total</b>							<b>3.00</b>	<b>Cum.</b>	
13	R2-CS-CW-6-a	Providing precast cement concrete Jali of Nominal Mix 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6mm nominal size) reinforced with 1.6 mm dia mild steel wire including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete excluding plastering of the jambs, sills and soffits.100 mm thick							
		At Staircase	3	0.60		0.90	1.62		
			3	0.60		1.80	3.24		
		At First Floor Passage (Structure No. 2)	3	0.45		1.80	2.43		
		At Water Trough	1	1.60		1.80	2.88		
		At Store Room	1	0.60		0.90	0.54		
		Pump Room	1	0.60		0.90	0.54		
							11.25		
		Add 5%					0.56		
							11.81		
<b>Total</b>							<b>12.00</b>	<b>Sqm.</b>	
<b>4. STRUCTURAL WORK</b>									
14	R2-CS-CW-56	Providing and applying Ready mix Polymer modified cement mortar of average thickness 15mm using Polymer in one or more layers in proportion 1:5:15 of Polymer Cement Quartz Sand as manufacturer's specifications in specific layers, curing the surface after 72 hours of application with wet gunny bags etc and by finishing the surface with 12mm thick (1:3) Cement sand plaster.							
		Considering Total Internal Ceiling Plaster	151.00						
		Considering 20% RCC Area to be treated					30.20		
<b>Total</b>							<b>30.00</b>	<b>Sqm.</b>	
15	R2-CS-CW-57	Providing and applying Ready mix Polymer modified cement mortar of average thickness 30mm using Polymer in two layers in proportion 1:5:15 of Polymer Cement Quartz Sand as manufacturer's specifications in specific layers, curing the surface after 72 hours of application with wet gunny bags etc and by finishing the surface with 12mm thick (1:3) Cement sand plaster.							
		Total External Plaster	549.00						
		Total Internal Plaster	995.00						

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<b>Total</b>	1544.00						
		Considering 20% Total RCC Surface Area for Column & Beam					308.80		
		Considering 20% RCC Area to be treated					61.76		
<b>Total</b>							<b>62.00</b>	<b>Sqm.</b>	
16	R2-CS-SS-06-d	Providing and fixing the Mechanical Anchor Fasteners as specified below of Hilti Make or equivalent confirming to IS 1367 (Part 3) at required locations and level including drilling the hole, cleaning and anchoring the bolt as per manufacturers specifications etc. complete as directed by Engineer In Charge. M16 X 140							
		For Extended Slab at Structure No. 2	4				4		
		Add 5% Extra					0.20		
<b>Say Total</b>							<b>5.00</b>	<b>Nos.</b>	
<b>5. MASONRY WORK</b>									
17	R2-CS-MW-33	Providing and laying autoclaved aerated (cellular) cement blocks masonry with more than 100 mm thick AAC blocks in cement mortar 1:4 (1 cement : 4 coarse sand ) including RCC stiffeners. The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work, racking of joints, scaffolding and curing,etc. completed as directed by Engineer-in-Charge.							
		<b>Structure No. 2</b>							
		Boys Toilet (Ground Floor)	1	2.45	0.10	2.10	0.51		
			1	1.7	0.10	2.10	0.36		
		Girls Toilet (Ground Floor)	1	2.45	0.10	2.10	0.51		
			1	1.7	0.10	2.10	0.36		
		Boys Toilet (First Floor)	1	4.905	0.10	2.10	1.03		
		Girls Toilet (First Floor)	1	1.635	0.10	2.10	0.34		
			2	0.45	0.10	2.10	0.19		
			1	3.05	0.10	2.10	0.64		
		H.M. Room 1 Main Wall	1	3.00	0.20	3.30	1.98		
		<u>Deductions</u>							
		Door, D3	-1	0.70	0.20	2.10	-0.29		
		Partition Wall between Handicapped & Staff Toilet	1	2.10	0.10	3.30	0.69		
		Store Room (Behind Pump Room)	1	4.45	0.20	3.30	2.94		
		<u>Deductions</u>							
		Ventilator	-1	0.60	0.20	0.90	-0.11		
		Door, D3	-1	0.70	0.20	2.00	-0.28		
		Pump Room	2	2.25	0.15	2	1.35		
			1	3.2	0.15	2	0.96		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<u>Deductions</u>							
		Door, D3	-2	0.7	0.15	2	-0.42		
		Ventilator	-1	0.6	0.2	0.9	-0.11		
							<b>10.66</b>		
		Add 5%					0.53		
							<b>11.19</b>		
<b>Say Total</b>							<b>11.00</b>	<b>Cum.</b>	
<b>6. PLASTERING WORK</b>									
18	R2-CS-PL-09-c	Providing and applying 20 mm thick internal plaster with neeru finish at all heights and locations in cement mortar specified below in two coats for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, scaffolding etc complete as directed By Engineer In Charge. In cement mortar 1:4							
		<b>Internal Wall Plaster</b>							
		<b>Structure No. 1 (Ground Floor Structure)</b>							
		<b>Balwadi</b>							
		Wall 1 & 3	2	4.85		3.28	31.82		
		Triangular Wall	0.5	4.85		1.84	4.46		
		<u>Deductions</u>							
		Door, D2	-1	1.01		2.00	-2.02		
		<u>Additions</u>							
		Door Jambs	1	1.01		0.10	0.10		
			2	2.00		0.10	0.40		
		Wall 2 & 4	2	2.30		3.28	15.09		
		<u>Deductions</u>							
		Window, W2	-1	1.20		1.50	-1.80		
		<u>Additions</u>							
		Window Jambs	2	1.20		0.10	0.24		
			2	1.50		0.10	0.30		
		<b>Classroom No. 1</b>							
		Wall 1 & 3	2	4.62		3.28	30.31		
		Wall 2 & 4	2	4.30		3.28	28.21		
		<u>Deductions</u>							
		Door, D1	-1	1.20		2.00	-2.40		
		Window, W2	-1	1.20		1.50	-1.80		
		<u>Additions</u>							
		Door Jambs	1	1.20		0.10	0.12		
			2	2.00		0.10	0.40		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		Window Jambs	2	1.20		0.10	0.24		
			2	1.50		0.10	0.30		
		<b>Classroom No. 2 &amp; 3</b>							
		Wall 1 & 3	4	4.62		3.28	60.61		
		Triangular Wall	0.5	4.62		1.84	4.25		
		Wall 2 & 4	4	5.50		3.28	72.16		
		<u>Deductions</u>							
		Door, D1	-2	1.20		2.00	-4.80		
		Window, W2	-2	1.20		1.50	-3.60		
		<u>Additions</u>							
		Door Jambs	2	1.20		0.10	0.24		
			4	2.00		0.10	0.80		
		Window Jambs	4	1.20		0.10	0.48		
			4	1.50		0.10	0.60		
		<b>Pump Room</b>							
		Wall 1 & 3	2	3.20		3.28	20.99		
		<u>Deductions</u>							
		Door, D2	-1	1.01		2.00	-2.02		
		Window, W2	-1	1.20		1.50	-1.80		
		<u>Additions</u>							
		Door Jambs	1	1.01		0.10	0.10		
			2	2.00		0.10	0.40		
		Wall 2 & 4	2	2.25		3.28	14.76		
		<b>Store Room (Behind Pump Room)</b>							
		Wall 1 & 3	2	2.10		3.15	13.23		
		<u>Deductions</u>							
		Door, D3	-1	0.70		2.00	-1.40		
		Ventilator	-1	0.60		0.90	-0.54		
		Wall 2 & 4	2	2.25		3.15	14.18		
		<b>Structure No. 2 (Ground + 1st Floor Structure)</b>							
		<b>Ground Floor</b>							
		<b>Store Room</b>							
		Wall 1 & 3	2	3.50		3.28	22.96		
		<u>Deductions</u>							
		Door, D1	-1	1.20		2.00	-2.40		
		Window, W2	-2	1.20		1.50	-3.60		
		<u>Additions</u>							
		Door Jambs	1	1.20		0.10	0.12		
			2	2.00		0.10	0.40		



## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		Window Jambs	2	1.20		0.10	0.24		
			2	1.50		0.10	0.30		
		Wall 2 & 4	2	4.05		3.28	26.57		
		Triangular Wall	1	4.05		1.84	7.45		
		<u>Deductions</u>							
		Window, W2	-2	1.20		1.50	-3.60		
		<u>Additions</u>							
		Window Jambs	2	1.20		0.10	0.24		
			2	1.50		0.10	0.30		
		<b>H.M. Room 1</b>							
		Wall 1 & 3	2	3.00		2.08	12.48		
		<u>Deductions</u>							
		Door, D1	-1	1.20		0.80	-0.96		
		Window, W2	-1	1.20		1.20	-1.44		
		<u>Additions</u>							
		Door Jambs	1	1.20		0.10	0.12		
			2	2.00		0.10	0.40		
		Wall 2 & 4	2	3.00		2.08	12.48		
		<b>Staff Toilet</b>							
		Wall 1 & 3	2	2.10		1.18	4.96		
		<u>Deductions</u>							
		Ventilator	-1	0.60		0.90	-0.54		
		Wall 2 & 4	2	1.10		1.18	2.60		
		<b>H.M. Room 2</b>							
		Wall 1 & 3	2	2.97		2.08	12.36		
		<u>Deductions</u>							
		Door, D1	-1	1.20		0.80	-0.96		
		Window, W2	-1	1.20		1.20	-1.44		
		<u>Additions</u>							
		Door Jambs	1	1.20		0.10	0.12		
			2	2.00		0.10	0.40		
		Wall 2 & 4	2	3.08		2.08	12.81		
		<b>Handicapped Toilet</b>							
		Wall 1 & 3	2	2.10		1.18	4.96		
		<u>Deductions</u>							
		Ventilator	-1	0.60		0.90	-0.54		
		Wall 2 & 4	2	1.85		1.18	4.37		
		<b>Water Trough</b>							
		Wall 1	1	1.75		1.18	2.07		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<u>Deductions</u>							
		Ventilator	-1	1.60		0.90	-1.44		
		<u>Additions</u>							
		Ventilator Jambs	2	1.60		0.10	0.32		
			2	0.90		0.10	0.18		
		Wall 2 & 4	2	1.36		1.18	3.21		
		<b>Girls Toilet</b>							
		Wall 1 & 3 (W.C.)	4	1.70		1.18	8.02		
		Wall 2 & 4 (W.C.)	4	1.13		1.18	5.33		
		<u>Deductions</u>							
		Ventilator	-2	0.60		0.90	-1.08		
		<u>Additions</u>							
		Ventilator Jambs	4	0.90		0.10	0.36		
			4	0.60		0.10	0.24		
		Wall 5 & 7	2	2.00		1.18	4.72		
		Wall 6 & 8	2	2.42		1.18	5.71		
		<u>Additions</u>							
		<b>Boys Toilet</b>							
		Wall 1 & 3 (W.C.)	4	1.70		1.18	8.02		
		Wall 2 & 4 (W.C.)	4	1.13		1.18	5.33		
		<u>Deductions</u>							
		Ventilator	-2	0.60		0.90	-1.08		
		<u>Additions</u>							
		Ventilator Jambs	4	0.60		0.10	0.24		
			4	0.90		0.10	0.36		
		Wall 5 & 7	2	2.00		1.18	4.72		
		Wall 6 & 8	2	2.42		1.18	5.71		
		<u>Additions</u>							
		<b>Classroom 1 &amp; 2</b>							
		Wall 1 & 3	4	5.80		3.28	76.10		
		<u>Deductions</u>							
		Door, D1	-2	1.20		2.00	-4.80		
		Window, W1	-5	1.60		1.50	-12.00		
		<u>Additions</u>							
		Door Jambs	2	1.20		0.10	0.24		
			4	2.00		0.10	0.80		
		Window Jambs	10	1.60		0.10	1.60		
			10	1.50		0.10	1.50		
		Wall 2 & 4	4	4.00		3.28	52.48		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<b>Passage</b>							
		Wall 1 & 3	2	8.75		2.08	36.40		
		<u>Deductions</u>							
		Door, D1	-3	1.20		0.80	-2.88		
		Door, D3	-1	0.70		0.80	-0.56		
		Window, W1	-1	1.60		0.30	-0.48		
		Staircase	-1	2.42		2.08	-5.03		
		<u>Additions</u>							
		Door Jambs	3	1.20		0.10	0.36		
			6	0.80		0.10	0.48		
			1	0.70		0.10	0.07		
			2	0.80		0.10	0.16		
		Window Jambs	1	1.60		0.10	0.16		
			2	0.30		0.10	0.06		
		Wall 2 & 4	2	1.75		2.08	7.28		
		<u>Deductions</u>							
		Passage Opening	-2	1.75		2.08	-7.28		
		<b>Passage</b>							
		Wall 1	1	1.75		2.08	3.64		
		<u>Deductions</u>							
		Door, D1	-1	1.20		0.80	-0.96		
		<u>Additions</u>							
		Door Jambs	1	1.20		0.10	0.12		
			2	0.80		0.10	0.16		
		Wall 2 & 4	2	3.62		2.08	15.06		
		<u>Deductions</u>							
		Door, D2	-2	1.01		0.80	-1.62		
		Passage Opening	-1	1.75		2.08	-3.64		
		<u>Additions</u>							
		Door Jambs	2	1.01		0.10	0.20		
			4	0.80		0.10	0.32		
		<b>First Floor</b>							
		<b>Computer Room</b>							
		Wall 1 & 3	2	5.80		2.08	24.13		
		<u>Deductions</u>							
		Window, W1	-3	1.60		1.20	-5.76		
		Door, D1	-1	1.20		0.80	-0.96		
		<u>Additions</u>							
		Door Jambs	1	1.20		0.10	0.12		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
			2	0.80		0.10	0.16		
		<b>Classroom 2 to 4</b>							
		Wall 1 & 3	6	5.80		3.28	114.14		
		<u>Deductions</u>							
		Window, W1	-8	1.60		1.50	-19.20		
		Door, D1	-3	1.20		2.00	-7.20		
		<u>Additions</u>							
		Door Jambs	3	1.20		0.10	0.36		
			6	2.00		0.10	1.20		
		Wall 2 & 4	6	4.00		3.28	78.72		
		<b>Boys Toilet</b>							
		Wall 1 & 3	2	1.75		1.18	4.13		
		<u>Additions</u>							
		Wall 2 & 4	2	2.42		1.18	5.71		
		<u>Additions</u>							
		Wall 1 & 3 (W.C.)	2	1.95		1.18	4.60		
		Wall 2 & 4 (W.C.)	2	1.13		1.18	2.67		
		<u>Deductions</u>							
		Ventilator	-1	0.60		0.90	-0.54		
		<u>Additions</u>							
		Ventilator Jambs	2	0.60		0.10	0.12		
			2	0.90		0.10	0.18		
		<b>Girls Toilet</b>							
		Wall 1 & 3	2	1.25		1.18	2.95		
		Wall 2 & 4	2	1.13		1.18	2.67		
		Wall 1 & 3 (W.C.)	2	1.95		1.18	4.60		
		Wall 2 & 4 (W.C.)	2	1.13		1.18	2.67		
		<u>Deductions</u>							
		Ventilator	-1	0.60		0.90	-0.54		
		<u>Additions</u>							
		Ventilator Jambs	2	0.60		0.10	0.12		
			2	0.90		0.10	0.18		
		Wall 1 & 3 (W.C.)	2	1.10		1.18	2.60		
		Wall 2 & 4 (W.C.)	2	1.13		1.18	2.67		
		<u>Deductions</u>							
		Ventilator	-1	0.60		0.90	-0.54		
		<u>Additions</u>							
		Ventilator Jambs	2	0.60		0.10	0.12		
			2	0.90		0.10	0.18		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<b>Staff Toilet</b>							
		Wall 1 & 3	2	1.25		3.28	8.20		
		Wall 2 & 4	2	1.13		3.28	7.41		
		Wall 1 & 3 (W.C.)	2	1.10		1.18	2.60		
		Wall 2 & 4 (W.C.)	2	1.13		1.18	2.67		
		<u>Deductions</u>							
		Ventilator	-1	0.60		0.90	-0.54		
		<u>Additions</u>							
		Ventilator Jambs	2	0.60		0.10	0.12		
			2	0.90		0.10	0.18		
		<b>Passage</b>							
		Wall 1 & 3	2	10.42		3.28	68.36		
		<u>Deductions</u>							
		Door, D1	-4	1.20		2.00	-9.60		
		Window W1	-3	1.60		1.50	-7.20		
		Staircase	-1	1.18		3.28	-3.87		
		<u>Additions</u>							
		Door Jambs	4	1.20		0.10	0.48		
			8	2.00		0.10	1.60		
		Window Jambs	6	1.60		0.10	0.96		
			6	1.50		0.10	0.90		
		Wall 2 & 4	2	1.75		3.28	11.48		
		<u>Deductions</u>							
		Window, W1	-1	1.60		1.50	-2.40		
		Passage Opening	-1	1.75		3.28	-5.74		
		<u>Additions</u>							
		Window Jambs	2	1.60		0.10	0.32		
			2	1.50		0.10	0.30		
		Triangular Wall	1	9.21		1.84	16.95		
		<b>Staircase (From Ground to First Floor)</b>							
		Wall 1 & 3	2	4.23		6.17	52.20		
		<u>Deductions</u>							
		Ground Floor Staircase Opening	-1	2.42		2.53	-6.12		
		First Floor Staircase Opening	-1	1.18		3.28	-3.87		
		RCC Grill	-1	1.60		2.27	-3.63		
		<u>Additions</u>							
		RCC Grill Jambs	2	1.60		0.10	0.32		
			2	2.27		0.10	0.45		
		Wall 2 & 4	2	2.42		6.17	29.86		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<b>Total Quantity of Internal Wall Plaster</b>					<b>995.26</b>		
		Considering 60% to be plastered					<b>597.16</b>		
		<u>Deductions</u>							
		20% of Internal Wall Plaster Area in Polymer					<b>-199.05</b>		
							<b>398.11</b>		
<b>Say Total</b>							<b>400.00</b>	<b>Sqm.</b>	
19	R2-CS-PL-05	Providing and applying 12 mm thick internal plaster in cement mortar 1:3 with neeru finish at all heights and locations in one coat for masonry (except stone masonry) and concrete surfaces including racking out joints, hacking of concrete surface, watering, finishing, curing, scaffolding etc. complete.							
		<b>Structure No. 2 (Ground + 1st Floor Structure)</b>							
		<b>Ground Floor</b>							
		Store Room	1	3.50	4.05		14.18		
		H.M. Room 1	1	3.00	3.00		9.00		
		Staff Toilet	1	2.10	1.10		2.31		
		Handicapped Toilet	1	2.10	1.85		3.89		
		H.M. Room 2	1	2.97	3.08		9.15		
		Water Trough	1	1.75	1.36		2.38		
		Girls Toilet	1	2.00	2.42		4.84		
		W.C.	2	1.70	1.13		3.84		
		Boys Toilet	1	2.00	2.42		4.84		
		W.C.	2	1.70	1.13		3.84		
		Classroom 1 & 2	2	5.75	4.00		46.00		
		Passage	1	8.75	1.75		15.31		
			1	1.75	3.62		6.34		
		<b>First Floor</b>							
		Passage	1	1.75	14.30		25.03		
							<b>150.93</b>		
		Considering 60% Area to be Plastered					<b>90.56</b>		
		<u>Deductions</u>							
		20% of Internal Ceiling Area in Polymer					<b>-30.19</b>		
							<b>60.37</b>		
<b>Total</b>							<b>65.00</b>	<b>Sqm.</b>	

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
20	R2-CS-PL-16-c	Providing and applying 20 mm thick external sand faced cement plaster with neat cement rendering upto 10m from ground level and at all locations in cement mortar proportion specified below in two coats for masonry (except stone masonry) and concrete surfaces including providing water proofing compound to the first coat of plaster as per manufacturers specification, racking out joints, hacking of concrete surface, finishing, curing, scaffolding etc complete as directed By Engineer In Charge. Min. time lag between two coats shall be 24 hours.(as per IS 2402 of 1963.) In Cement mortar 1:3							
		<b>Structure No. 1 (Ground Floor Structure)</b>							
		Panel No. 1	1	2.53		3.35	8.48		
		Panel No. 2	1	1.50		3.35	5.03		
		<u>Deductions</u>							
		Door, D2	-1	1.01		2.00	-2.02		
		Steps	-2	1.37		0.10	-0.27		
		<u>Additions</u>							
		Door Jambs	1	1.01		0.10	0.10		
			2	2.00		0.10	0.40		
		Panel No. 3	1	15.99		3.35	53.57		
		<u>Deductions</u>							
		Door, D1	-3	1.20		2.00	-7.20		
		Steps	-6	1.50		0.10	-0.90		
		<u>Additions</u>							
		Door Jambs	3	1.20		0.10	0.36		
			6	2.00		0.10	1.20		
		Panel No. 4	1	5.15		3.35	17.25		
			0.5	5.15		1.84	4.74		
		Panel No. 5	1	15.92		3.35	53.33		
			1	0.07		1.85	0.13		
		<u>Deductions</u>							
		Window, W2	-3	1.20		1.50	-5.40		
		<u>Additions</u>							
		Window Jambs	6	1.20		0.10	0.72		
			6	1.50		0.10	0.90		
		Panel No. 6	1	1.42		1.85	2.63		
		Panel No. 7	1	2.83		1.85	5.24		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<u>Deductions</u>							
		Window, W2	-1	1.20		1.50	-1.80		
		<u>Additions</u>							
		Window Jambs	2	1.20		0.10	0.24		
			2	1.50		0.10	0.30		
		Panel No. 8	1	5.30		1.85	9.81		
			0.5	5.30		1.84	4.88		
		Pump Room & Store Room							
		Panel No. 1 & 3	2	5.80		3.50	40.60		
		<u>Deductions</u>							
		Door, D2	-1	1.01		2.00	-2.02		
		Door, D3	-1	0.70		2.00	-1.40		
		Window, W2	-1	1.20		1.50	-1.80		
		Ventilator	-1	0.60		0.90	-0.54		
		Panel No. 2 & 4	2	2.40		3.50	16.80		
		<b>Structure No. 2 (Ground + 1st Floor Structure)</b>							
		Panel No. 1	1	4.50		3.35	15.08		
			0.5	4.50		1.84	4.14		
		<u>Deductions</u>							
		Window, W2	-1	1.20		1.50	-1.80		
		<u>Additions</u>							
		Window Jambs	2	1.20		0.10	0.24		
			2	1.50		0.10	0.30		
		Panel No. 2	1	3.88		1.85	7.18		
		Panel No. 3	1	0.44		1.85	0.81		
			1	1.00		3.35	3.35		
		Panel No. 4	1	14.50		6.10	88.45		
		<u>Deductions</u>							
		Window, W1	-5	1.60		1.50	-12.00		
		Window, W2	-3	1.20		1.50	-5.40		
		Ventilator	-1	0.90		0.60	-0.54		
		<u>Additions</u>							
		Window Jambs	10	1.60		0.10	1.60		
			10	1.50		0.10	1.50		
			6	1.20		0.10	0.72		



## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
			6	1.50		0.10	0.90		
		Ventilator Jambs	2	0.90		0.10	0.18		
			2	0.60		0.10	0.12		
		Panel No. 5	1	9.67		6.10	58.99		
			0.5	9.67		1.84	8.90		
		<u>Deductions</u>							
		Ventilator	-8	0.90		0.60	-4.32		
		<u>Additions</u>							
		Ventilator Jambs	16	0.90		0.10	1.44		
			16	0.60		0.10	0.96		
		Panel No. 6	1	14.73		6.10	89.85		
		<u>Deductions</u>							
		Window, W1	-8	1.60		1.50	-19.20		
		RCC Grill	-1	1.60		2.27	-3.63		
		<u>Additions</u>							
		Window Jambs	16	1.60		0.10	2.56		
			16	1.50		0.10	2.40		
		RCC Grill Jambs	2	1.60		0.10	0.32		
			2	2.27		0.10	0.45		
		Panel No. 7	1	6.61		6.10	40.32		
			1	3.06		2.75	8.42		
		<u>Deductions</u>							
		MS Folding Gate Opening	-1	1.75		2.53	-4.43		
		Steps	-3	0.88		0.10	-0.26		
		Ramp	-1	0.88		0.30	-0.26		
		Window, W1	-1	1.60		1.50	-2.40		
		<u>Additions</u>							
		Window Jambs	2	1.60		0.10	0.32		
			2	1.50		0.10	0.30		
		<b>Compound Wall</b>							
		Total Length	1	100.00		0.60	60.00		
		<b>Total Quantity of External Wall Plaster</b>					<b>548.88</b>		
		<u>Deductions</u>							
		20% of External Wall Area in Polymer					-109.78		
							<b>439.10</b>		

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<b>Add 5%</b>					21.96		
							<b>461.06</b>		
<b>Total</b>							<b>461.00</b>	<b>Sqm.</b>	
21	R2-CS-PL-35	Extra for providing and mixing polypropylene fibers in mortar of internal and external plaster. The dose of 6mm long fibers shall be 125gms per 50 kg of cement bag or as per the manufactures specifications etc complete as directed by Engineer In Charge							
		Total External Plaster					461.00		
		Coefficient of External Plaster of 2 coats					0.22		
							101.42		
		Total	1	101.42	0.125		<b>12.68</b>		
<b>Total</b>							<b>13.00</b>	<b>Kg.</b>	
22	R2-CS-PL-38-b	Providing flush pointing to any kind of stone masonry work at all heights and locations in cement mortar 1:2 as specified below, including raking of joints upto the depth of 20mm, finishing, curing, cleaning the surface etc. complete as directed by Engineer In Charge. In cement mortar 1:2							
		<b>Compound Wall</b>							
		Wall 1 (Outside)	1	17.50		1.50	26.25		
		Wall 1 (Inside)	1	3.60		1.50	5.40		
		Wall 2 (Outside)	1	2.60		1.50	3.90		
		Wall 3 (Outside)	1	2.75		1.50	4.13		
		Wall 3 (Inside)	1	1.10		1.50	1.65		
		Wall 4 (Outside)	1	20.52		1.50	30.78		
		Wall 4 (Inside)	1	19.92		1.50	29.88		
		Wall 5 (Outside)	1	8.53		1.50	12.80		
		Wall 5 (Inside)	1	4.73		1.50	7.10		
		Wall 6 (Outside)	1	3.88		1.50	5.82		
		Wall 7 (Outside)	1	0.29		1.50	0.44		
		Wall 8 (Outside)	1	14.50		1.50	21.75		
		Wall 8 (Inside)	1	14.50		1.50	21.75		
		Wall 9 (Outside)	1	2.00		1.50	3.00		
		Wall 9 (Inside)	1	1.70		1.50	2.55		
							<b>177.18</b>		
		<b>Add 5%</b>					8.86		
							<b>186.04</b>		
<b>Total</b>							<b>186.00</b>	<b>Sqm.</b>	

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
<b>7. WATERPROOFING WORK</b>									
23	R2-CS-WP-32-b	Providing the waterproofing treatment as per item no CS-WP-30 but for existing terrace after removing the old brick bat coba, tiling work etc. completely so as to expose the R.C.C. slab surface and cleansing the same. The rate is inclusive of removing the debris from actual place of work to the ground and from there the same will have to be carted away immediately the debris will become contractors property and no extra payment will be made for removing and carting. [Injection treatment shall be given as per item no. CS-WP-45] With Broken China Mosaic Flooring as per design							
		<b>Terrace Slab</b>	1	1.75	14.80		25.90		
		Add 5% Extra					1.30		
							<b>27.20</b>		
<b>Say Total</b>							<b>27.00</b>	<b>Sqm.</b>	
24	R2-CS-WP-37	Providing waterproofing treatment through specialized agencies as per their specifications to the flooring of water closets, bathrooms, kitchen, nahanies, washing places, sanitary blocks etc. by giving INJECTIONS with cement solution with water proofing compound into the floor slab so as to make it consistent, homogeneous and impervious against leakage, seepage etc. The sunk portion shall then be covered with brickbat waterproof coba in 1:5 c.s. of required thickness with necessary gradient for easy flow of water. Finally the floor shall be covered with joint less waterproof cement plaster in 1:3 c.s. 12 mm to 15 mm thick finished rough for receiving tiles. The average thickness of complete treatment shall not be less than 100 mm. The soil pan area will not be deducted. (After completion of work leakage test shall be carried out after impounding the water for 7 days without any extra cost. The actual treated area will be measured and paid for).							
		<b>First Floor (Proposed Toilet Block)</b>	1	3.85	5.00		19.25		
		Add 5% Extra					0.96		
							<b>20.21</b>		
<b>Say Total</b>							<b>20.00</b>	<b>Sqm.</b>	

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
25	R2-CS-WP-38-b	Providing waterproofing treatment through specialized agencies to the dado portion of brickwall upto 1.5 m height from floor area of water closets, bath-rooms, kitchens, washing places, sanitary blocks etc. by giving compound and cement solution. The walls will then be plastered without injection treatment with waterproofing waterproof cement plaster in 1:4 c.s. 12 mm to 15 mm thk. Finally the walls shall be covered with jointless waterproof plaster in 1:3 c.s. 12 to 15 mm thick finished rough for receiving tiles. The average thickness of complete treatment shall not be less than 25 mm. (The actual treated area will be measured and paid for) brickwall without injection treatment.							
		<b>Ground Floor</b>							
		<b>Staff Toilet</b>	2	2.10		1.50	6.30		
			2	1.10		1.50	3.30		
		<u>Deductions</u>							
		Door, D3	-1	0.70		1.50	-1.05		
		<b>Handicapped Toilet</b>	2	2.10		1.50	6.30		
			2	1.85		1.50	5.55		
		<u>Deductions</u>							
		Door, D1	-1	1.20		1.50	-1.80		
		<b>Water Trough</b>	1	1.75		1.50	2.63		
			2	1.36		1.50	4.08		
		<b>Girls Toilet</b>	2	2.00		1.50	6.00		
			2	2.42		1.50	7.26		
		<u>Deductions</u>							
		Door, D2	-1	1.01		1.50	-1.52		
		Door, D3	-2	0.70		1.50	-2.10		
		W.C.	4	1.70		1.50	10.20		
			4	1.13		1.50	6.78		
		<u>Deductions</u>							
		Door, D3	-2	0.70		1.50	-2.10		
		<b>Boys Toilet</b>	2	2.00		1.50	6.00		
			2	2.42		1.50	7.26		
		<u>Deductions</u>							
		Door, D2	-1	1.01		1.50	-1.52		
		Door, D3	-2	0.70		1.50	-2.10		
		W.C.	4	1.70		1.50	10.20		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
			4	1.13		1.50	6.78		
		<u>Deductions</u>							
		Door, D3	-2	0.70		1.50	-2.10		
		<b>First Floor</b>							
		<b>Staff Toilet</b>	2	1.10		1.50	3.30		
			2	1.50		1.50	4.50		
		<u>Deductions</u>							
		Door, D3	-1	0.70		1.50	-1.05		
			2	1.10		1.50	3.30		
			2	1.13		1.50	3.39		
		<u>Deductions</u>							
		Door, D3	-1	0.70		1.50	-1.05		
		<b>Girls Toilet</b>	2	2.00		1.50	6.00		
			2	2.42		1.50	7.26		
		<u>Deductions</u>							
		Door, D2	-1	1.01		1.50	-1.52		
		Door, D3	-2	0.70		1.50	-2.10		
		W.C.	4	1.70		1.50	10.20		
			4	1.13		1.50	6.78		
		<u>Deductions</u>							
		Door, D3	-2	0.70		1.50	-2.10		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<b>Boys Toilet</b>	2	2.00		1.50	6.00		
			2	2.42		1.50	7.26		
		<u>Deductions</u>							
		Door, D2	-1	1.01		1.50	-1.52		
		Door, D3	-2	0.70		1.50	-2.10		
		W.C.	4	1.70		1.50	10.20		
			4	1.13		1.50	6.78		
		<u>Deductions</u>							
		Door, D3	-2	0.70		1.50	-2.10		
							<b>135.80</b>		
<b>Say Total</b>							<b>136.00</b>	<b>Sqm.</b>	
<b>8. FLOORING WORK</b>									
26	R2-CS-FL-01-c	Providing and laying polished natural stone as specified below (Machine cut) of an approved quality and size for paving /flooring in plain and/or diamond /approved pattern including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, machine polishing at site, curing, finishing, etc complete as directed by Engineer In Charge.25 to 30 mm thk. Kota stone of size 0.430m x0.56m (17"x22")							
		<b>Structure No. 1 (Ground Floor Structure)</b>							
		Balwadi	1	4.85	2.30		11.16		
		Classroom No. 1	1	4.62	4.30		19.87		
		Classroom No. 2 & 3	2	4.62	5.50		50.82		
		Pump Room	1	3.20	2.25		7.20		
		Store Room	1	2.25	2.10		4.73		
		<b>Structure No. 2 (Ground + 1st Floor Structure)</b>							
		<b>Ground Floor</b>							
		Store Room	1	3.50	4.05		14.18		
		Classroom 1 & 2	2	5.75	4.00		46.00		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		Passage	1	8.75	1.75		15.31		
			1	1.75	3.62		6.34		
		<b>First Floor</b>							
		Classroom No. 2 to 4	3	5.80	4.00		69.60		
		Passage	1	10.42	1.75		18.24		
			1	1.20	2.42		2.90		
		<b>Staircase</b>							
		Midlanding	1	2.42	1.26		3.05		
							<b>269.38</b>		
		<b>Considering 50% only</b>					134.69		
<b>Say Total</b>							<b>135.00</b>	<b>Sqm.</b>	
27	R2-CS-FL-38-d	Providing and fixing polished natural stone slab as specified below of approved quality, pattern and colour for treads including preparing the surface and levelling in the desired line, in cement mortar 1:4, cement float, machine cutting, leveling, jointing, smooth cement plastering along the sides to match the existing surface in cement mortar 1:3, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge. Kota stone for width upto 300 mm							
		<b>Staircase</b>							
		Treads	20	1.18			23.60		
		Structure No. 1 Steps	3	1.50			4.50		
			3	1.00			3.00		
		Pump Room Steps	3	1.22			3.66		
		Store Room Steps	3	1.30			3.90		
		Structure No. 2 Steps	6	0.88			5.28		
							<b>43.94</b>		
		Add 5% Extra					2.20		
							<b>46.14</b>		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
<b>Say Total</b>							<b>50.00</b>	<b>Rmt</b>	
28	R2-CS-FL-21-d	Providing and fixing polished natural stone tiles /slab as specified below of approved quality, pattern and colour for flush/projected skirting and risers including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in porportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement or pigment mixed with cement, polishing, finishing, curing etc complete as directed by Engineer In Charge. 15 to 20mm thk. Kota stone for height upto 150 mm							
		<b>Structure No. 1</b>							
		Balwadi	2	4.85			9.70		
			2	2.3			4.60		
		<u>Deductions</u>							
		Door, D2	-2	1.01			-2.02		
		Classroom No. 1	2	4.62			9.24		
			2	4.3			8.60		
		<u>Deductions</u>							
		Door, D1	-2	1.20			-2.40		
		Classroom No. 2 & 3	2	4.62			9.24		
			2	5.50			11.00		
		<u>Deductions</u>							
		Door, D1	-2	1.20			-2.40		
		Pump Room	2	3.20			6.40		
			2	2.25			4.50		
		<u>Deductions</u>							
		Door, D2	-2	1.01			-2.02		
		Store Room	2	2.25			4.50		
			2	2.10			4.20		
		<u>Deductions</u>							
		Door, D3	-2	0.70			-1.40		
		<b>Structure No. 2</b>							
		<u>Ground Floor</u>							
		<b>Classroom 1 &amp; 2</b>	4	5.75			23.00		
			4	4.00			16.00		
		<u>Deductions</u>							
		Door, D1	-2	1.20			-2.40		



## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<b>Store Room</b>	2	3.50			7.00		
			2	4.05			8.10		
		<u>Deductions</u>							
		Door, D1	-2	1.20			-2.40		
		<u>First Floor</u>							
		<b>Classroom No. 2 to 4</b>	6	5.80			34.80		
			6	4.00			24.00		
		<b>Passage</b>	2	10.42			20.84		
			1	1.75			1.75		
		<u>Deductions</u>							
		Door, D1	-4	1.20			-4.80		
			2	1.20			2.40		
			2	2.42			4.84		
		<u>Deductions</u>							
		Door, D1	-3	0.70			-2.10		
		Passage Opening	-1	1.75			-1.75		
		<b>Staircase</b>							
		Midlanding	1	2.42			2.42		
			2	1.26			2.52		
		Risers	22	1.18			25.96		
		Steps Sides Skirting	44	0.27			11.88		
		Structure No. 1 Steps	6	1.50			9.00		
			2	1.00			2.00		
		Pump Room Steps	2	1.22			2.44		
		Store Room Steps	2	1.30			2.60		
		Structure No. 2 Steps	4	0.88			3.52		
							<b>253.36</b>		
		Add 5% Extra					12.67		
							<b>266.03</b>		
<b>Say Total</b>							<b>266.00</b>	<b>Rmt</b>	
29	R2-CS-FL-07-d	Providing and laying 8 mm thk. ceramic tiles as specified below conforming to I. S.15622-2006 for <b>flooring</b> of an approved, quality, make, size and pattern /design, for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, neat cement float, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge. Dark coloured antiskid / matt ceramic tiles							

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<b>Ground Floor</b>							
		Staff Toilet	1	2.10	1.10		2.31		
		Handicapped Toilet	1	2.10	1.85		3.89		
		Water Trough	1	1.75	1.36		2.38		
		Girls Toilet	1	2.00	2.42		4.84		
		W.C.	2	1.70	1.13		3.84		
		Boys Toilet	1	2.00	2.42		4.84		
		W.C.	2	1.70	1.13		3.84		
		<b>First Floor</b>							
		Staff Toilet	1	1.10	1.50		1.65		
			1	1.10	1.43		1.57		
		Water Trough	1	1.75	1.36		2.38		
		Girls Toilet	1	2.00	2.42		4.84		
		W.C.	2	1.70	1.13		3.84		
		Boys Toilet	1	2.00	2.42		4.84		
		W.C.	2	1.70	1.13		3.84		
							<b>48.91</b>		
		Add 5% Extra					2.45		
							<b>51.35</b>		
<b>Say Total</b>							<b>51.00</b>	<b>Sqm.</b>	
30	R2-CS-FL-31-b	Providing and fixing 6mm thk. ceramic tiles as specified below conforming to I.S. 15622-2006 of approved quality, pattern and colour for dado in the wet area including preparing the surface and levelling in the desired line, backing of 20 thk. Cement mortar in porportion 1:3 with approved waterproofing compound, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge. Dark Colour Glazed Tile							
		<b>Structure No. 2 (Ground Floor)</b>							
		<b>Staff Toilet</b>	2	2.10		2.10	8.82		
			2	1.10		2.10	4.62		
		<u>Deductions</u>							
		Door, D3	-1	0.70		2.00	-1.40		
		<b>Handicapped Toilet</b>	2	2.10		2.10	8.82		
			2	1.85		2.10	7.77		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<u>Deductions</u>							
		Door, D1	-1	1.20		2.00	-2.40		
		<b>Water Trough</b>	1	1.75		2.10	3.68		
			2	1.36		2.10	5.71		
		<u>Deductions</u>							
		Window, W1	-1	1.60		1.50	-2.40		
		<b>Girls Toilet</b>	2	2.00		2.10	8.40		
			2	2.42		2.10	10.16		
		<u>Deductions</u>							
		Door, D2	-1	1.01		2.00	-2.02		
		Door, D3	-2	0.70		2.00	-2.80		
		W.C.	4	1.70		2.10	14.28		
			4	1.13		2.10	9.49		
		<u>Deductions</u>							
		Door, D3	-2	0.70		2.00	-2.80		
		<b>Boys Toilet</b>	2	2.00		2.10	8.40		
			2	2.42		2.10	10.16		
		<u>Deductions</u>							
		Door, D2	-1	1.01		2.00	-2.02		
		Door, D3	-2	0.70		2.00	-2.80		
		W.C.	4	1.70		2.10	14.28		
			4	1.13		2.10	9.49		
		<u>Deductions</u>							
		Door, D3	-2	0.70		2.00	-2.80		
		<b>First Floor</b>							
		<b>Boys Toilet</b>	2	1.75		2.10	7.35		
			2	2.42		2.10	10.16		
		<u>Deductions</u>							
		Door, D3	-2	0.70		2.00	-2.80		
		W.C.	2	1.95		2.10	8.19		
			2	1.13		2.10	4.75		
		<u>Deductions</u>							
		Door, D3	-1	0.70		2.00	-1.40		
		<b>Girls Toilet</b>	2	1.25		2.10	5.25		
			2	1.13		2.10	4.75		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<u>Deductions</u>							
		Door, D3	-2	0.70		2.00	-2.80		
		W.C.	2	1.95		2.10	8.19		
			2	1.13		2.10	4.75		
		<u>Deductions</u>							
		Door, D3	-1	0.70		2.00	-1.40		
		W.C.	2	1.10		2.10	4.62		
			2	1.13		2.10	4.75		
		<u>Deductions</u>							
		Door, D3	-1	0.70		2.00	-1.40		
		<b>Staff Toilet</b>	2	1.25		2.10	5.25		
			2	1.13		2.10	4.75		
		<u>Deductions</u>							
		Door, D3	-2	0.70		2.00	-2.80		
		W.C.	2	1.10		2.10	4.62		
			2	1.13		2.10	4.75		
		<u>Deductions</u>							
		Door, D3	-1	0.70		2.00	-1.40		
							<b>170.76</b>		
		Add 5%					8.54		
							<b>179.30</b>		
<b>Say Total</b>							<b>179.00</b>	<b>Sqm.</b>	
31	R2-CS-FL-40-j	Providing and fixing polished natural stone tiles as specified below of approved quality, pattern and colour for sill and jambs including preparing the surface and levelling in the desired line, cement mortar 1:3 bedding or backing, cement float, machine cutting, leveling, jointing, smooth cement plastering along the sides to match the existing surface in cement mortar 1:3, filling the joints with neat cement or pigment mixed with cement, finishing, curing etc complete as directed by Engineer In Charge. 18mm thk. Ruby red, jet black, Hasan green Granite for width upto 150 mm							
		<b>G+1 Building Ground floor</b>							
		<b>Staff Toilet</b>							
		Door, D3	2	5.40			10.80		
		<b>Handicapped Toilet</b>							
		Door, D1	2	6.60			13.20		
		<b>Boys Toilet</b>							

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		Door, D2	2	6.02			12.04		
		Door, D3	4	5.40			21.60		
		<b>Girls Toilet</b>							
		Door, D2	2	6.02			12.04		
		Door, D3	4	5.40			21.60		
		<b>First floor</b>							
		<b>Passage</b>							
		Door, D3	2	5.40			10.80		
		<b>Boys Toilet</b>							
		Door, D3	2	5.40			10.80		
		<b>Girls Toilet</b>							
		Door, D3	6	5.40			32.40		
		<b>Staff Toilet</b>							
		Door, D3	4	5.40			21.60		
		<b>Structure No. 2</b>							
		Window, W1	34	6.2			210.8		
		<b>Structure No. 1</b>							
		Window, W2	8	5.4			43.2		
		<b>Structure No. 2</b>							
		Window, W2	10	5.4			54		
		<b>Pump Room</b>							
		Window, W2	2	5.4			10.8		
							<b>485.68</b>		
		Add 5%					24.28		
							509.96		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
<b>Total</b>							<b>510.00</b>	<b>Rmt.</b>	
32	R2-CS-FL-43-b	Providing and fixing all sides polished natural stone tiles as specified below of approved quality, pattern, colour and thickness for partition including making the groove in existing cladding/ plaster/ concrete/ masonry, machine cutting, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with neat cement or pigment mixed with cement, cutting for utility pipe in the shape as directed, cleaning, finishing, curing etc complete as directed by Engineer In Charge. 25 to 30mm thk. Kadappa stone							
		For 1 Cupboard							
		2 Extreme Sides Vertical Stone	2	0.5		2.1	2.1		
		Top & Bottom Horizontal Stone	2	1.26	0.5		1.26		
		Middle Horizontal Stone	1	1.2	0.5		0.6		
		Partition Horizontal Stone	2	1.2	0.45		1.08		
		Sides Vertical Stone	8	0.45		0.5025	1.809		
		Quantity of Stone for 1 Cupboard					6.849		
		Quantity of Stone for 12 Cupboards	12	6.849			82.188		
		Add 5%					<b>4.11</b>		
<b>Total</b>							<b>86.30</b>		
<b>Total</b>							<b>86.00</b>	<b>Sqm.</b>	
33	R2-CS-FL-8-c	Providing and laying 600 x 600 x 8 mm thk. vitrified tiles as specified below conforming to I.S.15622-2006 with water absorption less than 0.08% for flooring of an approved, quality, make and pattern /design for flooring including cement mortar bedding of 25 mm thick in 1:4 proportion, cutting, leveling, jointing, filling the joints by neat cement slurry or approved colour grout, curing, finishing etc complete as directed by Engineer In Charge Light coloured antiskid / matt vitrified tiles							
		<b>Structure No. 2 (Ground + 1st Floor Structure)</b>							
		<b>Ground Floor</b>							
		H.M. Room 1	1	3.00	3.00		9.00		
		<u>Deductions</u>							
		Kadappa Stone Cupboard	-1	1.20	0.50		-0.60		
		H.M. Room 2	1	2.97	3.08		9.15		
		<u>Deductions</u>							
		Kadappa Stone Cupboard	-1	1.20	0.50		-0.60		
		<b>First Floor</b>							
		Computer Room	1	5.80	4.00		23.20		
							<b>40.15</b>		
		Add 5%					<b>2.01</b>		

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
							42.15		
<b>Total</b>							<b>42.00</b>	<b>Sqm.</b>	
34	R2-CS-FL-64	Providing and fixing 8mm thk. vitrified tiles as specified below conforming to I.S. 15622-2006 with water absorption less than 0.08% and of approved quality, pattern and colour for dado in the dry area including preparing the surface and levelling in the desired line, backing of 20 thk. cement mortar in proportion 1:3, square cut top edge or chamfered top edge in cement mortar 1:3, cement float, machine cutting, leveling, jointing, filling the joints with neat cement slurry or approved colour grout, finishing, curing etc complete as directed by Engineer In Charge. Light coloured glazed vitrified tiles/ Dark coloured glazed vitrified tiles/ Light coloured antiskid / matt vitrified tiles/ Dark coloured antiskid / matt vitrified tiles							
		<b>Structure No. 2 (Ground + 1st Floor Structure)</b>							
		<b>Ground Floor</b>							
		<b>H.M. Room</b>	2	3.00		1.20	7.20		
			2	3.00		1.20	7.20		
		<u>Deductions</u>							
		Door, D1	-1	1.2		1.20	-1.44		
		Window, W2	-2	1.2		0.30	-0.72		
		<b>H.M. Room 2</b>	2	2.97		1.20	7.13		
			2	3.08		1.20	7.39		
		<u>Deductions</u>							
		Door, D1	-1	1.2		1.20	-1.44		
		Window, W2	-1	1.2		0.30	-0.36		
		<b>Passage</b>	2	8.75		1.20	21.00		
		<u>Deductions</u>							
		Door, D1	-3	1.20		1.20	-4.32		
		Door, D3	-1	0.70		1.20	-0.84		
		Window, W1	-1	1.60		0.30	-0.48		
		Staircase	-1	2.42		1.20	-2.90		
			1	1.75		1.20	2.10		
			2	3.65		1.20	8.76		
		<u>Deductions</u>							
		Door, D1	-1	1.20		1.20	-1.44		
		Door, D2	-2	1.01		1.20	-2.42		
		Passage Opening	-1	1.75		1.20	-2.10		
		<b>First Floor</b>							
		<b>Computer Room</b>	2	5.80		1.20	13.92		

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
			2	4.00		1.20	9.60		
		<u>Deductions</u>							
		Door, D1	-1	1.2		1.20	-1.44		
		Window, W1	-3	1.6		0.30	-1.44		
							<b>62.95</b>		
		Add 5% Extra					3.15		
							<b>66.10</b>		
<b>Total</b>							<b>66.00</b>	<b>Sqm.</b>	
35	R2-CS-FL-01-1	Providing and laying polished natural stone as specified below (Machine cut) of an approved quality and size for paving /flooring in plain and/or diamond /approved pattern including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, machine polishing at site, curing, finishing, etc complete as directed by Engineer In Charge. 18 mm thk. Steel Gray Granite tiles/slab							
		<b>Ground Floor</b>							
		Urinal Channel	1	1.35	0.20		0.27		
		Urinal Platform	1	1.95	0.40		0.78		
		<b>First Floor</b>							
		Urinal Channel	1	1.50	0.20		0.30		
		Urinal Platform	1	2.10	0.40		0.84		
							<b>2.19</b>		
		Add 5% Extra					0.11		
							<b>2.30</b>		
<b>Total</b>							<b>2.50</b>	<b>Sqm.</b>	
36	R2-CS-FL-43-k	Providing and fixing all sides polished natural stone tiles as specified below of approved quality, pattern, colour and thickness for partition including making the groove in existing cladding/ plaster/ concrete/ masonry, machine cutting, leveling, smooth cement plastering along the sides to match the existing surface in cement mortar, filling the joints with neat cement or pigment mixed with cement, cutting for utility pipe in the shape as directed, cleaning, finishing, curing etc complete as directed by Engineer In Charge. 18mm thk. Steel gray Granite tiles/slab							
		Ground and First Floor Urinal Partition	4	0.60		1.20	2.88		
			2	0.60		1.40	1.68		
							<b>4.56</b>		
		Add 5% Extra					0.23		
							<b>4.79</b>		
<b>Total</b>							<b>5.00</b>	<b>Sqm.</b>	



## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
37	R2-CS-FL-88	TELEPHONE BLACK GRANITE WASH HAND BASIN COUNTER: Providing and making wash basin counter in single piece of 18 mm to 20 mm thk. Telephone Black granite 600 mm side fixed over 25 to 40 mm thk. Black Cuddappa, stand with type construction, by making zari, in walls upto 75 mm deep & fitting the wall surface by C.M. 1:2 with necessary moulding, profile cutting in granite and cudappa including making hole to receive pillar cock for wash basin etc complete and as per detailed drawing, as directed by the Engineer-In-Charge.							
		<b>Ground Floor</b>							
		Boys Toilet	1	0.65			0.65		
		Girls Toilet	1	0.65			0.65		
		<b>First Floor</b>							
		Boys Toilet	1	0.65			0.65		
		Girls Toilet	1	0.65			0.65		
							<b>2.60</b>		
		Add 5% Extra					0.13		
							<b>2.73</b>		
<b>Total</b>							<b>2.75</b>	<b>Rmt.</b>	
38	R2-CS-FL-01-a	Providing and laying polished natural stone as specified below (Machine cut) of an approved quality and size for paving /flooring in plain and/or diamond /approved pattern including cement mortar bedding of 25 mm thick in 1:4 proportion, cement float, machine cutting, dressing, leveling, jointing, filling the joints with neat cement slurry or with required pigment, machine polishing at site, curing, finishing, etc complete as directed by Engineer In Charge. 25 to 30 mm thk. Shahbad stone of size 0.6m x 0.6m							
			1	1.65	20.55		33.91		
			1	1.00	4.30		4.30		
			1	4.15	1.60		6.64		
			1	4.90	0.90		4.41		
			1	12.15	14.10		171.32		
			1	4.10	0.90		3.69		
			1	3.60	0.90		3.24		
			1	3.90	5.20		20.28		
			1	2.40	4.80		11.52		
			1	3.10	1.55		4.81		
			1	1.95	1.10		2.15		
			1	0.75	2.00		1.50		
			1	12.80	0.45		5.76		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
			1	3.00	6.50		19.50		
			1	2.50	13.20		33.00		
			1	4.10	2.70		11.07		
			1	2.60	2.55		6.63		
							<b>343.71</b>		
		Considering only 10%					34.37		
<b>Say Total</b>							<b>34.00</b>	<b>Sqm.</b>	
<b>8. DOORS AND WINDOWS</b>									
39	R2-CS-WW-01	Providing and fixing best quality C.P. Teak wood frame for doors,windows and ventilators <b>size greater than 50mm x 50mm</b> including intermittent supports if required, all moulding, rebating, jointing,hold fasts of MS flats of minimum size 25 x 3 mm, having length of 225 mm for doors & 150 mm for windows and finishing with 3 coats of French polish or one coat of primer and synthetic enamel paint in two coats as directed etc. complete as directed.							
		<b>Structure No. 1</b>							
		Door, D1	3	0.06	0.11	5.2	0.10		
		Door, D2	1	0.06	0.11	5.05	0.03		
		<b>Structure No. 2</b>							
		Door, D1	9	0.06	0.11	5.2	0.31		
							<b>0.45</b>		
		<b>Add 5% Extra</b>					0.02		
							<b>0.47</b>		
<b>Total</b>							<b>0.50</b>	<b>Cum.</b>	
40	R2-CS-WW-05-c	Providing and fixing superior quality factory made single or double leaf Phenol Bonded solid core flush door shutters commercial type hot pressed conforming to IS:2202 (Part I,II) 1991 including 12 mm thk teak wood lipping all around with one coat of primer, putty and 2 coats of synthetic enamel paint on both faces etc. complete as directed. (Hinges, aldrop & standard door hardware to be paid separately) 35mm thick shutter							
		<b>Structure No. 1</b>							
		Door, D1	3	1.2		2	7.2		
		Door, D2	1	1.01		2	2.02		
		<b>Structure No. 2</b>							
		Door, D1	9	1.2		2	21.6		
							<b>30.82</b>		
		<b>Add 5% Extra</b>					1.54		
							<b>32.36</b>		
<b>Say Total</b>							<b>32.00</b>	<b>Sqm.</b>	

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
41	R2-CS-WW-07	Extra for providing and fixing 3mm thk. veneer with three coats of french polishing instead of synthetic enamel painting including all material and labour.							
		<b>Structure No. 1</b>							
		Door, D1	3	1.2		2	7.2		
		Door, D2	1	1.01		2	2.02		
		<b>Structure No. 2</b>							
		Door, D1	9	1.2		2	21.6		
		Total classroom cupboards	13	1.20		2.10	32.76		
							<b>63.58</b>		
		Add 5% Extra					3.18		
							<b>66.76</b>		
<b>Total</b>							<b>67.00</b>	<b>Sqm.</b>	
42	R2-CS-AW-01	Providing and fixing in position two track aluminum window of extruded modular and anodized aluminum sections of approved make and of size 61.85 mm x 45.5 mm x 1.3 mm thk (wt 1.055 kg/Rm) for bottom, 61.85 mm x 31.75 mm x 1.3 mm thk. (wt 0.659 kg/Rm) for top & sides, mounted on anodized aluminum rectangular frame of size 63mm x 38mm x 2.0mm(1.054). The shutter comprising of bearing bottom and top of size 40mm x 18 mm x 1.25 mm thk (wt. 0.417 Kg/Rm) Interlocking section of size 40mm x 26,7 mm x 1.10 mm thk. (Wt. 0469 kg./Rm) and hand sides of 40mm x 18mm x 1.25 mm thk (wt. 0.417kg/Rm) with 5 mm thick plain / frosted / tinted glass fixed in shutter including approved quality neoprene gasket, fixtures, fastenings and accessories like PVC rollers, PVC weep holes, locks, handles etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)							
		<b>Structure No. 1</b>							
		Window, W2	4	1.2		1.5	7.2		
		<b>Structure No. 2</b>							
		Window, W2	5	1.2		1.5	9		
							<b>16.2</b>		
		Add 5% Extra					0.81		
							<b>17.01</b>		
<b>Say Total</b>							<b>17.00</b>	<b>Sqm.</b>	

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
43	R2-CS-AW-02	Providing and fixing in position three track aluminum window of extruded modular and anodized aluminum sections of approved make and of size 92 mm x 45.5 mm x 1.5 mm thk (wt 1.659 kg/Rm) for bottom and 92 mm x 31.75 mm x 1.3 mm thk. (wt 0.933 kg/Rm) for top and sides mounted on anodized aluminum rectangular frame of size 100mm x 40mm x 1.3mm.(Wt 0.976 kg/m) The shutter comprising of bearing bottom and top of size 40mm x 18 mm x 1.25 mm thk (wt. 0.417 Kg/Rm) Interlocking section of size 40mm x 26.7 mm x 1.10 mm thk. (Wt. 0.469 kg./Rm) and hand sides of 40mm x 18mm x 1.25 mm thk (wt. 0.417kg/Rm) with 5 mm thick plain / frosted / tinted glass fixed in shutter including approved quality neoprene gasket, fixtures, fastenings and accessories like PVC rollers, PVC weep holes, locks, handles etc. complete as directed by Engineer In Charge. (Note: anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodizing must be scaleted by keeping the anodized section in boiling de-anodized water for a period of one hour)							
		<b>Structure No. 2</b>							
		Window, W1	17	1.6		1.5	40.8		
							<b>40.8</b>		
		Add 5% Extra					2.04		
							<b>42.84</b>		
<b>Say Total</b>							<b>43.00</b>	<b>Sqm.</b>	
44	R2-CS-AW-04	Providing and fixing in position aluminum louvered window with anodised aluminum frame of approved make and of size 40mm x 20mm x 2.0mm (wt. 0.605 kg/Rm) including adjustable aluminum frame, 4 to 6mm thk. frosted glass, fixtures and fastenings etc. complete as directed by by Engineer In Charge.							
		At Ground Floor Toilet Block	10	0.60		0.90	5.40		
							<b>5.40</b>		
		Add 5% Extra					0.27		
							<b>5.67</b>		
<b>Say Total</b>							<b>6.00</b>	<b>Sqm.</b>	

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
45	R2-CS-AW-15-k	Providing and fixing anodized (anodic film must not be less than 15 microns i.e. AC-15 as per IS, the anodising must be scaled by keeping the anodized section in boiling de-anodized water for a period of one hour) aluminum fixed/ sliding / pivoted / top hung / side hung / louvered type windows, doors, ventilators and partitions conforming to IS:1948, 1961 with hollow bottom section & standard single / two / three / four track frame section all round (top, bottom and sides) with shutter frame made up of standard handle section standard interlocking section and standard top and bottom section with infill panel of plain / frosted / tinted glass/ Novapan sheet / acrylic sheet / hardner laminated sheet as listed below with nylon guides, gliders glass fixing PVC weather strips, neoprene gasket, PVC weep holes etc complete with approved type of locking arrangement, handles and other fixtures including fixing, filling the gaps with silicon sealant, cleaning polishing the aluminium section with petrol and / or other agents as specified by the manufacturers etc. complete as directed by Engineer In Charge. 6 mm. thick Acrylic sheet							
		For Window, W1	17	1.6		1.5	40.8		
		For Window, W2	9	1.2		1.5	16.2		
		For Toilet Louvered Window	10	0.6		0.9	5.4		
							<b>62.40</b>		
		Add 5% Extra					3.12		
							<b>65.52</b>		
<b>Say Total</b>							<b>66.00</b>	<b>Sqm.</b>	
46	R2-CS-PV-03	Providing and Fixing to frames 30mm thick Fiber glass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF) / Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856 : 2000 etc complete as directed.							
		D1	1	1.20		2.00	2.40		
		D2	3	1.01		2.00	6.06		

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		D3	15	0.70		2.00	21.00		
							<b>29.46</b>		
		Add 5% Extra					1.05		
							<b>30.51</b>		
<b>Say Total</b>							<b>31.00</b>	<b>Sqm.</b>	
47	R2-CS-WW-02	Providing and fixing best quality C.P. Teak wood frame for doors, windows and ventilators size <b>Less than or</b> upto 50mm x 50mm including intermittent supports if required, all moulding, rebating, jointing, hold fasts of MS flats of minimum size 20 x 3 mm, having length of 150 mm and finishing with 3 coats of French polish or one coat of primer and synthetic enamel paint in two coats as							
		Cupboard Horizontal Door Frame (13 Cupboards)	52	1.20	0.05	0.05	0.16		
		Cupboard Vertical Door Frame (13 Cupboards)	52	0.94	0.05	0.05	0.12		
							<b>0.28</b>		
		<b>Add 5% Extra</b>					0.01		
							<b>0.29</b>		
<b>Total</b>							<b>0.30</b>	<b>Cum.</b>	
48	R2-CS-WW-05-a	Providing and fixing superior quality factory made single or double leaf Phenol Bonded solid core flush door shutters commercial type hot pressed conforming to IS:2202 (Part I,II) 1991 including 12 mm thk teak wood lipping all around with one coat of primer, putty and 2 coats of synthetic enamel paint on both faces etc. complete as directed. (Hinges, aldop & standard door hardware to be paid separately) 25 mm thk							
		Total classroom cupboards	13	1.20		2.10	32.76		
		Add 5%					1.64		
							<b>34.40</b>		
<b>Say Total</b>							<b>34.00</b>	<b>Sqm.</b>	
<b>10. PAINTING</b>									
49	R2-CS-PN-4-a	Providing and applying first single coat of approved primer and two coats of synthetic enamel paint/flat oil paint of an approved make and colour as per manufacturers specifications to surfaces specifird below, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in- charge.							
		Same As Internal wall Plaster					995.26		
		<b>Upto 1.20m height</b>					<b>368.25</b>		36.59%
		Add 10%					36.82		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
							405.07		
<b>Total</b>							<b>405.00</b>	<b>Sqm.</b>	
50	R2-CS-PN-3	Providing and applying first single coat of approved primer and two coats of acrylic distemper (oil bound distemper) of an approved make and colour as per manufacturers specifications to any surface, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting with broom by any approved means, etc. complete as directed by Engineer-in-charge.							
		Above 1.20m Height					627.02		
		Same as Ceiling Plaster					65.00		
							<b>692.02</b>		
		Add 10%					69.20		
							<b>761.22</b>		
<b>Total</b>							<b>765.00</b>	<b>Sqm.</b>	

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
51	R2-CS-PN-12-a	Providing and applying first single coat of approved primer and two coats of anti-algal, anti-fungal, exterior paint as specified below of an approved make and colour as per manufacturers specifications to any surface, upto 10m height from ground level and at all locations as directed including preparing surfaces for painting by any approved means, watering, scaffolding, cleaning and curing etc. complete as directed by Engineer-in-charge. By using acrylic based exterior paint							
		Same as External Plaster					461.00		
		Increase by 50%					691.50		As per IS 1200 (Part 13) - 1994, Clause 3.6 (b)
		RCC Grill	2	12.00			24.00		
		Increase by 70%					40.80		As per IS 1200 (Part 13) - 1994, Clause 3.7
		<b>Total</b>					<b>732.30</b>		
		Add 10%					<b>73.23</b>		
							<b>805.53</b>		
<b>Total</b>							<b>806.00</b>	<b>Sqm.</b>	
52	R2-CS-PN-4-c	Providing and applying first single coat of approved primer and two coats of synthetic enamel paint/flat oil paint of an approved make and colour as per manufacturers specifications to surfaces specifird below, at all height and locations as directed including scaffolding, cleaning and preparing surfaces for painting by any approved means etc. complete as directed by Engineer-in- charge. For Steel work							



Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		Provisional Quantity					150.00		
<b>Total</b>							<b>150.00</b>	<b>Sqm.</b>	
<b>11. IRON WORKS</b>									
53	R2-CS-SS-15	Providing, detailing, and fabricating as per specifications, transporting to site and erecting MS Openable / Sliding / Ornamental Entrance Gates including track and wheel, locking arrangement, fixing bolts, nuts, washers, cleats, stiffeners, gussets decorative balusters, arrow heads etc. and all necessary operations like straightening, bending, cutting, drilling, grinding, machining if specified, welding etc. complete weighing 25 to 30 kg/Sqm, including cleaning, Grinding and removing the welding burr and preparing surface and applying one coat of red oxide zinc chromate primer and one coat of Synthetic Enamel paint after fabrication and second coat of Synthetic Enamel paint after erection, with approved colour, shade and brand etc. including touching up with primer etc. complete as directed by Engineer In Charge.							
		<b>Main Gate of School Building</b>							
		MS Folding Gate at Structure No. 2	1	1.80		3.30	5.94		
							<b>5.94</b>		
		Add 5%					0.30		
							<b>6.24</b>		
<b>Say Total</b>							<b>6.00</b>	<b>Sqm.</b>	
54	R2-CS-SL-12-b	Providing and Fixing MS Safety grill of weight specified below for windows as per design including fabricating the grill using M.S. square / round bar, flats and angles including painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint of approved colour and brand etc complete as directed. Grill weighing 15 to 20 kg / sqm							
		<b>Structure No. 1</b>							
		Window, W2	4	1.4		1.7	9.52		
		<b>Structure No. 2</b>							
		Window, W1	17	1.8		1.7	52.02		
		Window, W2	5	1.4		1.7	11.9		
		<b>Pump Room</b>							
		Window, W2	1	1.4		1.7	2.38		
		Collapsible Gate	1	2.50		3.30	8.25		
		Grill at First Floor above Handrail	1	2.20		2.60	5.72		
		For Ecoflex	1	18.00		1.20	21.60		
							<b>111.39</b>		
		Add 5% Extra					5.57		

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
							116.96		
<b>Say Total</b>							<b>117.00</b>	<b>Sqm.</b>	
55	R2-CS-SS-22	Providing, detailing, and fabricating as per specifications, transporting to site and erecting M.S. ladder using hot rolled sections, hollow pipes (Hollow pipes conforming to IS 1239 part 1 and 2) including, fixtures and fastenings, cleats, stiffeners, gussets, etc. and all necessary operations like straightening, bending, cutting, drilling, grinding, machining if specified, welding, removing the welding burr, cleaning etc., fixing in cement concrete block of grade M15, and preparing surface, applying one coat of red oxide zinc chromate primer and one coat of Synthetic Enamel paint after fabrication and second coat of synthetic enamel paint after erection, with approved colour, shade and brand etc. complete as directed by Engineer In Charge.							
		<b>Structure No. 2</b>							
		Ladder	2	60			120.00		
<b>Say Total</b>							<b>120.00</b>	<b>Kg</b>	
56	R2-CS-SS-04	Providing, detailing, composite fabricating members like Trusses, N- girders, girders, bracings, supports, purlins, runners, and similar structural steel members fabricated using M.S. hollow tubular steel sections (circular & rectangular pipes), of TATA Structura Make or equivalent conforming to IS 1239 part 1 and 2 and of grade Fe 250 as per specifications and approved fabrication drawings (which are to be prepared by Contractor and got approved from Engineer), including transportation of the same to site, erection of structural steel members for all heights & at all levels, provision of necessary erection bolts, fixing bolts, nuts, washers, cleats, stiffeners, gussets, base plate, and all necessary operations like preheating as per specifications, straightening, bending, cutting, drilling, grinding, machining if specified, welding, grinding, removing the welding burr and preparing surface for painting with wire brush cleaning and applying two coats of epoxy red oxide zinc phosphate primer of 30 microns each and two coats of Epoxy Corrosion Resistant Enamel paint of 30 microns after fabrication including touching up with spray painting after erection etc complete as directed by Engineer In Charge.							
		<b>Structure No. 1</b>							
		<u>Principal Rafter, Post &amp; Struts</u>							
		Hollow Pipe of Outside Dia. = 48.3mm and Thickness = 2.6mm; Weight = 3.23 kg/m	10	6.00		3.23	193.80		As per IS 1161:1998, Table No. 1
			10	2.02		3.23	65.25		
			10	1.04		3.23	33.59		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
			20	1.50		3.23	96.90		
		<u>Purlin</u>							
		Hollow Pipe of Outside Dia. = 48.3mm and Thickness = 2.6mm; Weight = 3.23 kg/m	10	5.20		3.23	167.96		As per IS 1161:1998, Table No. 1
			5	16.00		3.23	258.40		
		<b>Structure No. 2</b>							
		<u>Principal Rafter</u>							
		Hollow Pipe of Outside Dia. = 48.3mm and Thickness = 2.6mm; Weight = 3.23 kg/m	30	2.50		3.23	242.25		As per IS 1161:1998, Table No. 1
		<u>Purlin</u>							
		Hollow Pipe of Outside Dia. = 48.3mm and Thickness = 2.6mm; Weight = 3.23 kg/m	12	15.70		3.23	608.53		As per IS 1161:1998, Table No. 1
			12	4.50		3.23	174.42		
		<b>For Windows</b>							
		Window, W2 (Structure No. 1)	8	1.30		3.23	33.59		
		Door, D1 (Structure No. 1)	8	1.30		3.23	33.59		
		Window, W1 (Structure No. 1) Rear Side	6	1.30		3.23	25.19		
		Window, W1 (Structure No. 1) Front Side & Rear Side	15	1.30		3.23	62.99		
							<b>2.00</b>		
		Considering 25% only					<b>0.50</b>		
		<b>Extended Portion of Slab &amp; Overhead Water Tank</b>							
		Lacing = ISA 50x50x6mm; Weight = 4.5 kg/m	2	6.22		4.50	55.98		
			2	3.36		4.50	30.24		
			2	1.00		4.50	9.00		
		Bracket Section = ISA 75x75x6mm; Weight = 6.8 kg/m	1	2.00		6.80	13.60		
		Overhead Water Tank	1	2.40	5.85	7850.00	14.04		
		Extended Portion of Slab	1	2.00	0.90	7850.00	1.80		
		<b>I-Sections for Beams and Columns of Proposed Overhead Water Tank</b>							
		<u>Column</u>							
		ISMB 300 @ 44.2 kg/m	4	5.00		44.20	884.00		
		<u>Main Beam</u>							
		ISMB 250 @ 37.3 kg/m	2	2.10		37.30	156.66		
			2	2.25		37.30	167.85		
		<u>Secondary Beam</u>							
		ISMB 150 @ 14.9 kg/m	1	2.10		14.90	31.29		
							<b>1.36</b>		

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		Add 5% Extra					0.07		
							<b>1.43</b>		
		<b>Total Weight</b>					<b>1.93</b>		
<b>Total</b>							<b>2.00</b>	<b>MT.</b>	
57	R2-CS-SS-18	Providing, fabricating, welding and fixing 1.0m high MS pipe hand railing, weight 10 to 12 kg per Rmt including all necessary fixtures, holdfasts, supports and painting with one coat of red oxide zinc chromate primer and two coats of approved synthetic enamel paint etc complete as directed by Engineer In Charge.							
		Handicapped Toilet	1	5.00			5.00		
		At Stair Case	1	6.00			6.00		
<b>Total</b>							<b>11.00</b>	<b>Rmt.</b>	
<b>12. DRAINAGE WORKS</b>									
58	R2-CS-PS-163-b	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: 150 mm							
		For UG drainage lines	1	5.00			5.00		
<b>Total</b>							<b>5.00</b>	<b>Rmt.</b>	
59	R2-CS-PS-164-b	Providing and laying cement concrete 1:4:8 (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 :150 mm diameter S.W. pipe							
		For UG drainage lines	1	5.00			5.00		
<b>Total</b>							<b>5.00</b>	<b>Rmt.</b>	
60	R2-CS-PS-166-a-1	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 2.70 kg as per standard design: 100x100 mm size P type							
		At compound	6				6.00		
<b>Total</b>							<b>6.00</b>	<b>Nos.</b>	
61	R2-CS-RW-16-a	Providing and fixing UV resistant selffit UPVC pipes of approved make for Rainwater downtakes conforming to IS 13592:1992 Type A suitable for 4kg/sqcm pressure for following pipe diameters including rain water receiving recess with pvc plug bend necessary fittings such as offsets shoes, fixing the pipes on wall with clips filling the joints with solvent/cement and necessary scaffolding etc. complete as directed by Engineer In Charge. 75mm dia							

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		Bath / Kitchen pipe	7	10.00			70.00		
		Vent pipes	5	10.00			50.00		
<b>Total</b>							<b>120.00</b>	<b>Rmt.</b>	
62	R2-CS-RW-16-b	Providing and fixing UV resistant selffit UPVC pipes of approved make for Rainwater downtakes confirming to IS 13592:1992 Type A suitable for 4kg/sqcm pressure for following pipe diameters including rain water receiving recess with pvc plug bend necessary fittings such as offsets shoes, fixing the pipes on wall with clips filling the joints with solvent/cement and necessary scaffolding etc. complete as directed by Engineer In Charge. 100mm dia							
		Rain water	3	10.00			30.00		
		Rain water	3	10.00			30.00		
		WC pipe	3	10.00			30.00		
<b>Total</b>							<b>90.00</b>	<b>Rmt.</b>	
63	R2-CS-PS-194	Constructing brick masonry inspection chamber 90cm x 45cm x 30cm in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix ( 1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 ( 1 cement : 3 coarse sand ) finished with floating coat of neat cement and making haunches, channels in cement concrete 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design.							
			3				3.00		
<b>Total</b>							<b>3.00</b>	<b>Nos.</b>	
64	R2-CS-PS-195	Extra on item CS-PS-194 for additional depth above 30 cm of 230 mm brick walls							
			3				3.00		
<b>Total</b>							<b>3.00</b>	<b>Rmt.</b>	

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
65	R2-CS-PS-196	Providing & fixing M. S. angled ISA 5050 of 6 mm. welded frame for rectangular inspection chamber of 90 cm x 45 cm. with, 1 : 2 : 4 R. C. C. cover of approved design, 50mm. thick fixed complete including cement sand filleting 1 : 1 in C. S. complete as directed (Including fixing in cement mortar with cement and sand filleting around C. I. Frame and removal of the existing frame and cover if any. The frame and cover must be weighed before fixing in position.) (The dimension specified are clear inside dimensions of the frames. In case of M. S. angled frame, the proper hold fasts & fastening should be embedded in c.c.)							
			3				3.00		
<b>Total</b>							<b>3.00</b>	<b>Nos.</b>	
66	R2-CS-PS-1-a	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type							
		Structure No. 2							
		Boys Toilet & Girls Toilet (Ground & 1st Floor)	2				2.00		
<b>Total</b>							<b>2.00</b>	<b>Nos.</b>	
67	R2-CS-PS-2-a	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid							
		Structure No. 2							
		First Floor	8				8.00		

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
<b>Total</b>							<b>8.00</b>	<b>Nos.</b>	
68	R2-CS-PS-7-a	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps.							
		Structure No. 2							
		Staff Toilet (Ground & 1st Floor) & Handicapped Toilet	3				3.00		
<b>Total</b>							<b>3.00</b>	<b>Nos.</b>	
69	FA-18-SIC-AV-12	Providing And Fixing UPVC Nahani Trap Of 75 mm Outlet							
		Ground to 1st Floor at Toilet	13				13.00		
<b>Total</b>							<b>13.00</b>	<b>Nos.</b>	
70	R2-CS-PS-30	Providing and fixing 600x450 mm bevelled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.							
		Ground to 1st Floor at Toilet	8				8.00		
<b>Total</b>							<b>8.00</b>	<b>Nos.</b>	
71	R2-CS-PS-69	Providing and fixing PTMT liquid soap container 109mm wide, 125mm high and 112mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour. weighing not less than 105 gms.							
		Ground to 1st Floor at Toilet	8				8.00		
<b>Total</b>							<b>8.00</b>	<b>Nos.</b>	
72	R2-CS-PS-71-b	600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190gms.							
		Ground to 1st Floor at Toilet	8				8.00		
<b>Total</b>							<b>8.00</b>	<b>Nos.</b>	
<b>13. WATER SUPPLY WORKS</b>									
73	R2-CS-PS-88-a	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. 15 mm dia nominal bore							
		Internal Downtake	1	80.00			80.00		
<b>Total</b>							<b>80.00</b>	<b>Rmt.</b>	
74	R2-CS-PS-85-b	20 mm dia nominal bore							
		Internal horizontal line	1	80.00			80.00		

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
<b>Total</b>							<b>80.00</b>	<b>Rmt.</b>	
75	R2-CS-PS-85-c	25 mm dia nominal bore							
		External Downtake	1	60.00			60.00		
<b>Total</b>							<b>60.00</b>	<b>Rmt.</b>	
76	R2-CS-PS-90-d	32 mm dia nominal bore							
			1	60.00			60.00		
<b>Total</b>							<b>60.00</b>	<b>Rmt.</b>	
77	R2-CS-PS-95-a	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): 25mm							
			1	10.00			10.00		
<b>Total</b>							<b>10.00</b>	<b>Nos.</b>	
78	R2-CS-PS-94-a	Providing and fixing brass stop cock of approved quality: 15 mm nominal bore							
			1	10.00			10.00		
<b>Total</b>							<b>10.00</b>	<b>Nos.</b>	
79	R2-CS-PS-126	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.							
		Tank 5000 Litre	1	5000.00			5000.00		
<b>Total</b>							<b>5000.00</b>	<b>per litre</b>	
80	R2-CS-PS-127-a	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :15 mm bore							
		At all toilet	1	20.00			20.00		
		At water trough	1	4.00			4.00		
		Provisional					6.00		
<b>Total</b>							<b>30.00</b>	<b>Nos.</b>	
81	R2-CS-PS-73	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes. Weighing not less than 60 gms.							
		At all floor	1	6.00			6.00		
<b>Total</b>							<b>6.00</b>	<b>Nos.</b>	



## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
<b>14. MISCELLANEOUS WORKS</b>									
82	R2-CS-AT-2	Providing anti-termite treatment around the periphery of the existing building conforming to IS-6313 (part III) by excavating trenches of 20cm width and exposing the sides of the columns, plinth beams and wall upto a depth of 300mm, rodding for the holes of 300mm deep and at 150m c/c in the trenches, treating with chloropyrifos EC 20 Emulsion or equivalent of 1% concentration by weight at the total rate of 2.25 Litters per meter including backfilling the trenches etc. complete as directed by Engineer-in-Charge covering 2 years guaranty.							
		Structure No. 1	1	53.47			53.47		
		Pump Room	1	11.80			11.80		
		Structure No. 2	1	58.98			58.98		
							124.25		
<b>Total</b>							<b>125.00</b>	<b>Rmt.</b>	
83	R2-CS-AT-3	Providing anti termite treatment conforming to IS- 6313 (part-III) to the sides of flooring of the Existing building by punching/ drilling the holes of 16 mm dia at a distance of 300mm centre to centre and injecting 150 ml untill refusal or to a maximum of 1 Lit. per hole with chloropyrifos EC 20 Emulsion or equivalent of 1% concentration by weight, sealing the hole by filling the putty etc. complete as directed by Engineer-In-Charge with 2 years guaranty.							
			600				600.00		
<b>Total</b>							<b>600.00</b>	<b>Per Hole</b>	
84	FA-18-SIC-AV-03	Providing & fixing soft boards with 12mm thick black or green painted approved soft board with T.W. Moulded frame 50 mm x 30 mm at top and bottom sides including nails, screws and such other fixing accessories etc. Complete (only clear picture area within the frame work will be paid for).							
		At all Classrooms	13	5.50		0.60	42.90		
							42.90		
<b>Total</b>							<b>43.00</b>	<b>Sqm.</b>	
85	FA-18-SIC-AV-04	Providing & fixing notice board with soft boards with 12mm thick black or green painted approved soft board with T.W. Moulded frame 50 mm x 38 mm at top and bottom sides including Fixtures and fastening of approved make complete as directed.							
		At passage	10	1.20		1.00	12.00		
<b>Total</b>							<b>12.00</b>	<b>Sqm.</b>	
86	FA-18-SIC-AV-07	Providing and fixing number plates of size 150mm x 200mm for all class room and H.M. Room 2s in silver anodized aluminium 50 x 50mm size including 2mm thick flexi glass of equivalent size all complete as per details.							

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		At all classrooms & Passages	21				21.00		
<b>Total</b>							<b>21.00</b>	<b>Nos.</b>	
87	FA-18-SIC-AV-09	P & F UPVC cowl cap of size 75 mm.	8				8.00		
<b>Total</b>							<b>8.00</b>	<b>Each</b>	
88	FA-18-SIC-AV-10	P & F UPVC cowl cap of size 110 mm.	10				10.00		
<b>Total</b>							<b>10.00</b>	<b>Each</b>	
89	R2-CS-RW-04	Providing and fixing 6 mm thick Non-asbestos high impact Polypropylene reinforced cement corrugated sheet of approved make conforming to IS: 14871-2000 laying the same in position as per the stipulation in IS: 3007-1991 using 8m dia polymer coated iron L or J hook bolts, galvanized iron & bituminous washers, or self drilling fasteners and EPDM washers, galvanized iron clamps, nuts and bolts etc. complete and as directed. (Net Area covered by sheeting will be measured. Laps will not be paid separately)							
		Structure No. 1	1	5.20	16.00		83.20		
			1	5.20	2.55		13.26		
		Structure No. 2	4	2.50	15.80		158.00		
			1	3.65	4.20		15.33		
		Pump Room	1	3.40	2.70		9.18		
		<b>Structure No. 1</b>							
		Window, W2	4	1.6		0.6	3.84		
		<b>Structure No. 2</b>							
		Window, W1	17	2		0.6	20.4		
		Window, W2	5	1.6		0.6	4.8		
							<b>308.01</b>		
		Add 5% Extra					15.40		
<b>Total</b>							<b>323.41</b>		
<b>Total</b>							<b>323.00</b>	<b>Sqm.</b>	
90	R2-CS-RW-07-a	Providing and fixing non-asbestos fiber cement high impact polypropylene reinforced roofing accessories in all colours with polymer coated J or L hooks, bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers or with self drilling fastener and EPDM washer etc. complete as directed. Corrugated serrated adjustable ridges							
		Structure No. 2	2	18.85			37.70		
							<b>37.70</b>		
		Add 5% Extra					1.89		
							<b>39.59</b>		

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
<b>Total</b>							<b>40.00</b>	<b>Rmt.</b>	
91	R2-CS-RW-13	Galvanised iron sheet 1 mm (20 B.W.G.) eaves pre-coated gutter 200 mm to 230 mm wide and 100 mm to 125 mm deep moulded or half round girth upto 600mm including iron rods, on the edges (throughout the length) and galvanised iron sheet ferrules with fixtures, for outlets wherever required clamped using W.I. clamp 38 mm x 3 mm fixed 1.0 m C/C including making necessary connections with rain water pipes etc complete and as directed.							
		Structure No. 1	1	18.55			18.55		
		Structure No. 2	4	15.7			62.8		
			1	3.65			3.65		
							<b>85.00</b>		
		Add 5% Extra					4.25		
							<b>89.25</b>		
<b>Total</b>							<b>90.00</b>	<b>Rmt.</b>	
92	FAIR-SIC-19-05	Providing and fixing stainless steel water trough 16 gauge of clear size 30 cm. x 30 cm. With moulded edges, 75 mm. dia. inbuilt S.S. waste water jali with required fittings and PVC Pipes, etc. complete as directed by Engineer.							
		<b>Structure No. 2</b>							
		Water Trough	1	1.75			1.75		
		Add 5% Extra					0.09		
							<b>1.84</b>		
<b>Total</b>							<b>1.85</b>	<b>Rmt.</b>	
93	R2-CS-RM-99	P/F Aluminium composite sheet of 3 mm thick either suspended or fixed bracketed on wall with U.V digital printing at suitable locn including all necessary framework completed as per detailed drawings to be issued during construction & as directed by the engineer.							
		<b>Structure No. 1</b>	1	4.35		0.90	4.35		
		<b>Structure No. 2</b>	1	4.35		0.90	4.35		
							<b>8.70</b>		
<b>Total</b>							<b>9.00</b>	<b>Sqm.</b>	
94	FA-18-SIC-GN-11	Supply and installation of insitu cast in ECOFLEX 'Playsafe' safety flooring on a smooth, pre-prepared PCC base laid to required slope, consisting of 30mm base layer made by using rubber granules 'R' grade, duly meshed and Voramer isocyanate 15% by weight and top layer of 6mm thk of 80% of SBR rubber crumb and 20% EPDM rubber crumb duly meshed 1-4mm with binder of Voramer isocyanate 20% by weight as per design given by the Architect and complete as per manufacture's specification. (Rate excludes preparation of PCC base)							

Measurement Sheet									
Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
		<b>For Ecoflex</b>	1	6.00	3.00		18.00		
							<b>18.00</b>		
<b>Total</b>							<b>18.00</b>	<b>Sqm.</b>	
<b>15. HARDWARE</b>									
95	R2-CS-HW-04-d-2	Providing and fixing butt hinges as described below, manufactured as per relevant IS for door & windows with necessary materials and labour costs etc. complete. <b>Stainless Steel Hinges 100 mm long</b>							
		Classroom Cupboards (13 x 8)	104				104.00		
		Provisional	6				6.00		
<b>Total</b>							<b>110.00</b>	<b>Nos.</b>	
96	R2-CS-HW-04-d-3	Providing and fixing butt hinges as described below, manufactured as per relevant IS for door & windows with necessary materials and labour costs etc. complete. <b>Stainless Steel Hinges 125 mm long</b>							
		Toilet Door (14 x 3)	42				42.00		
		Classroom Doors (13 x 3)	39				39.00		
							81.00		
		Provisional	5				4.00		
<b>Total</b>							<b>85.00</b>	<b>Nos.</b>	
97	R2-CS-HW-08-d-1	Providing and fixing tower bolts as described below conforming to IS:204-1992 (PartI,II) for doors & windows with necessary materials and labour etc. complete. <b>Standard Brass Tower Bolt 100 mm long</b>							
		At all cupboards	52				52.00		
		Provisional	3				3.00		
<b>Total</b>							<b>55.00</b>	<b>Nos.</b>	
98	R2-CS-HW-08-d-2	Providing and fixing tower bolts as described below conforming to IS:204-1992 (PartI,II) for doors & windows with necessary materials and labour etc. complete. <b>Standard Brass Tower Bolt 150 mm long</b>							
		Classroom Doors (13 x 1)	13				13.00		
		Provisional	2				2.00		
<b>Total</b>							<b>15.00</b>	<b>Nos.</b>	
99	R2-CS-HW-09-d-1	Providing and fixing handles as described below, manufactured as per IS:208-1992 for doors and windows and with necessary materials and fixtures like screws etc. and all labour etc. complete. <b>Standard Stainless Steel 100 mm long</b>							
		Classroom Cupboards (13 x 4)	52				52.00		
		Provisional	3				3.00		
<b>Total</b>							<b>55.00</b>	<b>Nos.</b>	

## Measurement Sheet

Sr. No.	Item Reference	Description	Nos	Length	Width	Height	Quantity	Unit	Remark
100	R2-CS-HW-09-d-3	Providing and fixing handles as described below,manufactured as per IS:208-1992 for doors and windows and with necessary materials and fixtures like screws etc. and all labour etc. complete.Standard Stainless Steel <b>200 mm long</b>							
		Toilet Door (14 x 2)	28				28.00		
		Classroom Doors (13 x 2)	26				26.00		
							54.00		
		Provisional	6				6.00		
<b>Total</b>							<b>60.00</b>	<b>Nos.</b>	
101	R2-CS-HW-06-d-1	Providing and fixing aldrops of 16 mm diameter bars manufactured as per IS:2681-1991, wherever they apply for doors and windows with necessary materials and labour etc. complete. Standard Stainless Steel make Aldrop <b>250 mm long</b>							
		Toilet Door (14 x 1)	14				14.00		
		Classroom Cupboards (13 x 2)	26				26.00		
							<b>40.00</b>		
<b>Total</b>							<b>40.00</b>	<b>Nos.</b>	
102	R2-CS-HW-06-d-2	Providing and fixing aldrops of 16 mm diameter bars manufactured as per IS:2681-1991, wherever they apply for doors and windows with necessary materials and labour etc. complete. Standard Stainless Steel make Aldrop <b>300 mm long</b>							
		Classroom Doors (13 x 2)	26				26.00		
		Provisional	4				4.00		
<b>Total</b>							<b>30.00</b>	<b>Nos.</b>	