

<b>COMPERATIVE SUMMARY OF DETAILED &amp; PRELIMINARY ESTIMATE</b>		
<b>NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDHYALAYA AT SHRAWASTI</b>		
<b>S. No.</b>	<b>NAME OF WORK</b>	<b>Detailed Estimated Cost</b>
		<b>TOTAL AMOUNT (Rs.)</b>
<b>1</b>	School Building	
a	Civil Cost	8,41,80,596.02
b	Sanitary Cost	17,03,178.43
c	Electrical Cost	29,55,832.00
d	Fire Fighting	9,37,299.00
	<b>Total</b>	<b>8,97,76,905.45</b>
<b>2</b>	Type II Quarters (4 Nos.)	<b>66,58,568.04</b>
<b>3</b>	Type III Quarters (4 Nos.)	<b>73,34,395.39</b>
<b>4</b>	Type V Quarter (1 No.)	<b>46,20,075.19</b>
<b>5</b>	<b>External Development</b>	
	Internal Road and pathway	<b>42,69,083.95</b>
	Sewer	<b>10,03,232.00</b>
	Water supply	<b>3,76,295.73</b>
	Storm water Drain	<b>16,43,680.37</b>
	Underground Sump	<b>9,88,802.97</b>
	Site Dressing	<b>10,50,480.00</b>
<b>6</b>	<b>Bulk Seivices</b>	
	External Electrification	<b>21,79,501.00</b>
	Borewell	<b>3,68,699.41</b>
<b>7</b>	Boundary Wall	<b>75,18,215.00</b>
<b>8</b>	Septic Tank and Soakpit	<b>10,64,117.92</b>
<b>9</b>	Cycle Garage/Scooter Garage/TypeV Car garage	<b>9,83,010.94</b>
<b>10</b>	Guard house and Panel Room including cost of Sanitary & Electrical estimate	<b>5,12,421.89</b>
<b>11</b>	Canteen & Pump Room including cost of Sanitary & Electrical estimate	<b>6,70,919.83</b>
<b>12</b>	Cycle Stand	<b>11,66,104.26</b>
<b>13</b>	Basketball Court	<b>8,00,124.22</b>
<b>14</b>	Badminton	<b>48,282.93</b>
<b>15</b>	Volleyball Court	<b>52,515.40</b>
<b>16</b>	Kho Kho	<b>42,295.66</b>
<b>17</b>	Trcak & Playfield	<b>4,72,393.41</b>
<b>18</b>	Rain water harvesting pit	<b>5,21,315.61</b>
<b>19</b>	<b>TOTAL</b>	<b>13,41,21,436.56</b>
<b>20</b>	<b>SAY</b>	<b>13,41,21,437.00</b>

<b>SUMMARY OF DETAILED ESTIMATE</b>		
<b>NAME OF WORK: CONSTRUCTION OF KENDRIYA</b>		
<b>SUMMARY OF BUILDINGS</b>		
<b>S.No.</b>	<b>NAME OF WORK</b>	<b>TOTAL AMOUNT (Rs.)</b>
<b>1</b>	<b>School</b>	
	Civil	8,41,80,596.02
	Sanitary	16,95,194.43
	Electrical	29,55,832.00
	Fire Fighting	9,37,299.00
		<b>8,97,68,921.45</b>
<b>2</b>	<b>Quarter TYPE II</b>	
	Civil	58,87,594.35
	Sanitary	3,51,878.69
	Electrical	4,19,095.00
		<b>66,58,568.04</b>
<b>3</b>	<b>Quarter TYPE III</b>	
	Civil	64,58,025.79
	Sanitary	4,00,525.60
	Electrical	4,75,844.00
		<b>73,34,395.39</b>
<b>4</b>	<b>Quarter TYPE V</b>	
	Civil	41,24,753.93
	Sanitary	3,58,059.27
	Electrical	1,37,262.00
		<b>46,20,075.19</b>

<b>SUMMARY OF DETAILED ESTIMATE</b>		
<b>NAME OF WORK: CONSTRUCTION OF KENDRIYA</b>		
<b>SUMMARY OF EXTERNAL DEVELOPMENT</b>		
<b>S.No.</b>	<b>NAME OF WORK</b>	<b>TOTAL AMOUNT (Rs.)</b>
*	<b>Internal Road and path</b>	<b>42,69,083.95</b>
*	<b>Sewer</b>	<b>10,03,232.00</b>
*	<b>Water supply</b>	<b>3,76,295.73</b>
*	<b>Storm water Drain</b>	<b>16,43,680.37</b>
*	<b>Street Light</b>	<b>Part of external electrification</b>
*	<b>Overhead Tank without independent staging</b>	<b>Part of school building</b>
*	<b>Underground Sump</b>	<b>9,88,802.97</b>
*	<b>Site Levelling</b>	<b>-</b>

<b>SUMMARY OF DETAILED ESTIMATE</b>		
<b>NAME OF WORK: CONSTRUCTION OF KENDRIYA</b>		
<b>SUMMARY OF OTHER SERVICES</b>		
<b>S.No.</b>	<b>NAME OF WORK</b>	
		<b>TOTAL AMOUNT (Rs.)</b>
<b>BULK SERVICES</b>		
*	<b>External Electrical cabling and street lighting</b>	<b>21,79,501.00</b>
*	<b>LT Panel in panel room and feder pillars near building</b>	-
*	<b>Borewell</b>	
	Civil	<b>3,68,699.41</b>
*	<b>Water Filtration Plant</b>	
	Civil	<b>10,00,000.00</b>
*	Boundary Wall	
	Civil	<b>73,83,655.00</b>
*	Septic Tank and Soakpit Tank	
	For School	
	Civil	<b>7,27,212.36</b>
	For Residential	
	Civil	<b>3,36,905.56</b>

<b>SUMMARY OF DETAILED ESTIMATE</b>		
<b>NAME OF WORK: CONSTRUCTION OF KENDRIYA</b>		
<b>SUMMARY</b>		
<b>S.No.</b>	<b>NAME OF WORK</b>	<b>TOTAL AMOUNT (Rs.)</b>
*	<b>Canteen &amp; Pump Room</b>	
	Civil	
	Sanitary	
	Electrical	<b>Part of external electrification</b>
		<b>9,60,049.68</b>
*	<b>Guard House &amp; Panel room</b>	
	Civil	
	Sanitary	
	Electrical	<b>Part of external electrification</b>
		<b>20,02,139.09</b>
*	<b>Type V Car Garage &amp; Scooter St</b>	
	Civil	<b>12,69,782.18</b>
*	<b>Cycle Stand</b>	
	Civil	<b>22,10,220.77</b>
*	<b>Basketball</b>	
	Civil	<b>8,00,124.22</b>
*	<b>Badminton</b>	
	Civil	<b>48,282.93</b>
*	<b>Volleyball</b>	
	Civil	<b>52,515.40</b>
*	<b>Kho Kho</b>	
	Civil	<b>42,295.66</b>
*	<b>Track &amp; Playfield</b>	
	Civil	<b>4,72,393.41</b>
*	<b>Rain Water Harvesting Pit</b>	
	Civil	<b>5,02,019.07</b>

ESTIMATE											
Name of Work: CONSTRUCTION OF KENDRIYA VIDHYALAYA AT SHRAWASTI											
ABSTRACT OF CIVIL QUANTITIES											
S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
1.0	<b>EARTH WORK</b>										
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.										
	All kinds of soil	cum	157.50	3397.00	158.00	257.00	276.00	535027.50	24885.00	40477.50	43470.00
1.2											
	All kinds of soil	cum	155.60	50.00	2.00	0.00	0.00	7780.00	311.20	0.00	0.00
1.3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	112.40	3937.00	199.00	415.00	266.00	442518.80	22367.60	46646.00	29898.40
1.4	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.										
1.4.1	All kinds of soil	cum	46.25	50.00	0.00	0.00	0.00	2312.50	0.00	0.00	0.00
1.4.2	Ordinary or hard rock	cum	82.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.5	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :										
	All kinds of soil										
1.5.1	Pipes, cables etc, not exceeding 80 mm dia.	metre	127.55	20.00	0.00	5.00	5.00	2551.00	0.00	637.75	637.75
1.5.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	208.30	50.00	5.00	10.00	10.00	10415.00	1041.50	2083.00	2083.00
1.5.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	metre	325.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1.6	Supplying chemical emulsion in sealed containers including delivery as specified.										
	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	litre	185.95	382.00	30.00	24.00	21.00	71032.90	5578.50	4462.80	3904.95
1.7	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :										

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:										
	With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	metre	15.40	400.00	71.00	70.00	71.00	6160.00	1093.40	1078.00	1093.40
1.8	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :										
	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	sqm	118.90	3199.00	213.00	160.00	132.00	380361.10	25325.70	19024.00	15694.80
1.9	Supplying and stacking at site. Good earth including carriage by mechanical transport including loading & unloading & stacking to a lead of 20 km .i.e. =153.07+(11.54*5)+(9.6*10)+320.9 = 627.67	cum	627.67	565.00	41.00	158.00	0.00	354633.55	25734.47	99171.86	0.00
1.10	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	cum	910.25	446.00	26.00	22.00	20.00	405971.50	23666.50	20025.50	18205.00
	<b>Summary of Earth work</b>							<b>2218763.85</b>	<b>130003.87</b>	<b>233606.41</b>	<b>114987.30</b>
2.0	<b>CONCRETE WORK</b>										
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shhtering - All work up to plinth level										
2.1.1	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	4672.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.1.2	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	4301.15	412.00	27.00	28.00	26.00	1772073.80	116131.05	120432.20	111829.90
2.1.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	cum	5335.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.2	Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	sq.m.	314.85	223.00	27.00	30.00	27.00	70211.55	8500.95	9445.50	8500.95
2.3	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50kg of cement.	per 50kg cement	48.15	78.00	9.00	11.00	9.00	3755.70	433.35	529.65	433.35

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
2.4	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil	sqm.	132.00	223.00	27.00	30.00	27.00	29436.00	3564.00	3960.00	3564.00
2.5	Making Plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 course sand :6graded stone aggregate 20mm nominal size) over 75mm bed by dry brick blast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	sqm.	419.30	471.00	60.00	63.00	64.00	197490.30	25158.00	26415.90	26835.20



S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
2.6	Providing and fixing up to floor five level precast cement concrete string or lacing courses, copings, bed plates, anchor blocks, plain window sills, shelves, louvers, steps, stair cases, etc., including hoisting and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand),cost of required centering complete.										
	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	6774.05		1.07	2.57	2.60	0.00	7214.36	17418.96	17581.41
	<b>Summary of Concrete work</b>							<b>2072967.35</b>	<b>161001.71</b>	<b>178202.21</b>	<b>168744.81</b>
3.0	<b>REINFORCED CEMENT CONCRETE</b>										
3.2	Centering & shuttering including strutting, propping etc. and removal of form work for:										
3.2.1	Foundations, footings, bases of columns etc. for mass concrete.	sqm	196.45	1667.00	58.95	86.00	68.43	327482.15	11580.73	16894.70	13442.78
3.2.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	332.15	4438.00	281.91	429.09	373.01	1474081.70	93637.69	142520.66	123894.92
3.2.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	401.65	4387.00	196.46	313.82	273.10	1762038.55	78907.39	126046.81	109690.98
3.2.4	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	453.35	2597.00	145.95	238.82	237.30	1177349.95	66166.43	108267.23	107580.53
3.2.5	Stairs, (excluding landings) except spiral - stair cases	sqm	395.65	35.00	16.00	28.00	25.00	13847.75	6330.40	11078.20	9891.25
3.2.6	Edges of slabs and breaks in floors and walls							0.00	0.00	0.00	0.00
	Under 20 cm wide	metre	116.40	1692.00	110.00	248.00	514.00	196948.80	12804.00	28867.20	59829.60
3.2.7	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	sqm	360.80	52.00	0.00	0.00	0.00	18761.60	0.00	0.00	0.00
3.2.8	Arches, domes, vaults up to 6 m span	sqm	1066.30		0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.										
	Thermo-Mechanically Treated bars.	kilogram	68.10	72904.00	3802.00	5159.00	4697.00	4964762.40	258916.20	351327.90	319865.70

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
3.4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.										
	Thermo-Mechanically Treated bars.	kilogram	68.10	203345.00	9038.00	14680.00	13731.00	13847794.50	615487.80	999708.00	935081.10
3.5	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.										
3.5.1	All works upto plinth level	cum	6296.15	891.00	51.29	66.00	59.00	5609869.65	322909.37	415545.90	371472.85
3.5.2	All works above plinth level upto floor V level	cum	7014.55	1204.00	58.95	87.00	78.00	8445518.20	413483.82	610265.85	547134.90
3.6	Add or deduct for providing richer or leaner mixes respectively at all floor levels.										
	Providing M-30 grade concrete by using 420 kg of cement per cum of concrete instead of M-25 grade B.M.C. / R.M.C.	cum	76.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3.7	Add for using extra cement in the items of design mix over and above the specified cement content therein.	quintal	742.75	138.00	0.00	0.00	0.00	102499.50	0.00	0.00	0.00
3.8	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand:4 graded stone aggregate 6 mm 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.										
	50 mm thick	sqm	729.95	38.00	2.40	0.00	0.00	27738.10	1751.88	0.00	0.00
3.9	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured).										

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
	Suspended floors, roofs, landing, beams and balconies (Plan area to be measured)	sqm	159.05	4293.00	0.00	0.00	0.00	682801.65	0.00	0.00	0.00
3.10	Add for plaster drip course/ groove in plastered surface or moulding to R.C.C. projections.	metre	30.75	857.00	0.00	0.00	0.00	26352.75	0.00	0.00	0.00
3.11	Providing and fixing of expansion joint system related with floor location as per drawings and direction of Engineer-In-Charge. The joints system will be of extruded aluminum base members, self aligning / self centering arrangement and support plates etc. as per ASTM B221-02. The system shall be such that it provides floor to floor /floor to wall expansion control system for various vertical localtion in load application areas that accommodates multi directional seismic movement without stress to it's components. System shall consist of metal profiles with a universal aluminum base member designed to accommodate various project conditions and finish floor treatments. The cover plate shall be designed of width and thickness required to satisfy projects movement and loading requirements and secured to base members by utilizing manufacturer's pre-engineered self-centering arrangement that freely rotates / moves in all directions. The Self – centering arrangement shall exhibit circular sphere ends that lock and slide inside the corresponding aluminum extrusion cavity to allow freedom of movement and flexure in all directions including vertical displacement. Provision of Moisture Barrier Membrane in the Joint System to have watertight joint is mandatory requirement all as per the manufactures design and as approved by Engineer -in- Charge . (Material shall confirm to ASTM 6063.)										
	Floor Joint of 100 mm gap	metre	6358.55	431.00	0.00	0.00	0.00	2740535.05	0.00	0.00	0.00

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
3.12	Providing and fixing of expansion joint system related with wall joint (internal/ external) location as per drawings and direction of Engineer-In- Charge. The joints shall be of extruded aluminum base members, self aligning / centering arrangement and support plates as per ASTM B221- 02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application, both new and existing construction in office Buildings & complexes with no slipping down tendency amongst the components of the Joint System. The Joint System shall utilize light weight aluminum profiles exhibiting minimal exposed aluminum surfaces mechanically snap locking the multicellular to facilitate movement.(Material shall confirm to ASTM 6063.)										
	Wall Joint of 100 mm gap	m	5080.90	94.00	0.00	0.00	0.00	477604.60	0.00	0.00	0.00
	<b>Summary of Reinforced Cement Concrete</b>							<b>41895986.90</b>	<b>1881975.71</b>	<b>2810522.45</b>	<b>2597884.60</b>
4.0	<b>BRICK WORK</b>										
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:										
	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	4918.65	246.00	21.59	25.00	31.00	1209987.90	106217.44	122966.25	152478.15
4.2	Brick work with F.P.S. bricks of class designation 7.5 in super structure above plinth level up to floor V level in all shapes and sizes in.										
	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	5667.55	1332.00	58.00	106.00	100.00	7549176.60	328717.90	600760.30	566755.00
4.3	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.										
	Cement mortar 1:3 (1 Cement : 3 coarse sand)	sqm	692.80	423.00	96.00	161.00	170.00	293054.40	66508.80	111540.80	117776.00
4.4	Extra for providing and placing in position 2 Nos. 6mm dia. M.S.bars at every third course of half brick masonry (with F.P.S. bricks).	sqm	69.50	423.00	96.00	161.00	170.00	29398.50	6672.00	11189.50	11815.00
4.5	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	metre	38.15	400.00	71.00	70.00	71.00	15260.00	2708.65	2670.50	2708.65

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
4.6	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand ). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	cum	6386.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Summary of Brick work</b>							<b>9096877.40</b>	<b>510824.79</b>	<b>849127.35</b>	<b>851532.80</b>
5.0	<b>WOOD WORK</b>										
5.1	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :										
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1909.55	336.00	28.35	59.00	59.00	641608.80	54135.74	112663.45	112663.45
5.2	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 :										
5.2.1	125mm long	Each	69.80	294.00	34.00	32.00	32.00	20521.20	2373.20	2233.60	2233.60
5.2.2	100mm long	Each	55.10	1248.00	52.00	112.00	112.00	68764.80	2865.20	6171.20	6171.20
5.3	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 :										
	250x16 mm	Each	166.20	143.00	17.00	16.00	16.00	23766.60	2825.40	2659.20	2659.20
5.4	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 :										
	250x10mm	Each	95.25	143.00	17.00	32.00	32.00	13620.75	1619.25	3048.00	3048.00
5.5	150x10mm	Each	65.35	1391.00	69.00	144.00	32.00	90901.85	4509.15	9410.40	2091.20
5.6	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less then grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with necessary screws etc. complete										
	Twin rubber stopper	Each	83.95	143.00	17.00	32.00	32.00	12004.85	1427.15	2686.40	2686.40

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
5.7	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	365.85	336.00	28.00	59.00	59.00	122925.60	10243.80	21585.15	21585.15
5.8	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.										
	Fixed to steel windows by welding	K.g	109.00	10699.00	267.00	594.00	529.00	1166191.00	29103.00	64746.00	57661.00
5.9	Providing and fixing 25 mm thick shutters for cup board etc. :										
	Panelled or panelled & glazed shutters :										
	Second class teak wood including ISI marked nickel plated anodised aluminium butt hinges with necessary screws	sqm	2760.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.10	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.										
	50 mm.	Each	186.35	0.00	1.00	8.00	8.00	0.00	186.35	1490.80	1490.80
5.11	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.										
	Second class teak wood										
	35 mm thick shutters	sqm	2689.05	0.00	15.47	0.00	0.00	0.00	41610.36	0.00	0.00
	Kiln seasoned and chemically treated hollock wood										
	35 mm thick shutters	sqm	1731.05	0.00	0.00	36.00	30.00	0.00	0.00	62317.80	51931.50
5.12	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :										
	Second class teak wood	sqm	2155.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Kiln seasoned and chemically treated hollock wood	sqm	1383.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Float glass panes										
	4 mm thick glass pane	sqm	1181.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5.5 mm thick glass panes	sqm	1406.75	0.00	13.00	36.00	30.00	0.00	18287.75	50643.00	42202.50

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
5.13	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws.										
	35 mm thick shutters										
	with ISI marked M.S. pressed butt hinges bright finished of required size										
	Second class teak wood	sqm	3502.80	0.00	22.00	0.00	0.00	0.00	77061.60	0.00	0.00
	Kiln seasoned and chemically treated hollock wood	sqm	2537.10	0.00	0.00	55.38	49.00	0.00	0.00	140504.60	124317.90
5.14	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete :										
	25 mm dia	metre	468.75	24.00	30.00	66.00	38.00	11250.00	14062.50	30937.50	17812.50
5.15	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) :										
	Rectangular or square	sqm	139.40	186.00	0.00	0.00	0.00	25928.40	0.00	0.00	0.00
5.16	Providing and fixing aluminium casement stays, 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.	sqm	74.95	648.00	0.00	0.00	0.00	48567.60	0.00	0.00	0.00
	<b>Summary of Wood work</b>							<b>2246051.45</b>	<b>260310.45</b>	<b>511097.10</b>	<b>448554.40</b>
6.0	<b>STEEL WORK</b>										
6.1	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.										
	In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works.	kilogram	90.10	4047.00	133.00	885.00	599.00	364634.70	11983.30	79738.50	53969.90
6.2	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	619.40	210.00	0.00	0.00	0.00	130074.00	0.00	0.00	0.00

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
6.3	Providing and fixing T-iron frames for doors, windows and ventilators 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.										
	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)	k.g	83.70	0.00	20.00	433.00	546.00	0.00	1674.00	36242.10	45700.20
6.4	Providing and fixing pressed steel door frames conforming to IS: 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm, pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed butt hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer- in-charge:										
6.4.1	Profile C										
	Fixing with adjustable lugs with split end tail to each jamb	metre	400.95	3347.00	0.00	0.00	0.00	1341979.65	0.00	0.00	0.00
6.4.2	Profile E										
	Fixing with adjustable lugs with split end tail to each jamb	metre	424.20	0.00	159.64	202.00	169.00	0.00	67719.29	85688.40	71689.80
6.5	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows all complete with.										
	5.5 mm thick glass panes.	sqm	988.00	540.00	0.00	0.00	0.00	533520.00	0.00	0.00	0.00
6.6	Providing and fixing carbon steel galvanised ( minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm <sup>2</sup> ), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.										
	10 x 80 mm	each	70.75	0.00	24.00	32.00	64.00	0.00	1698.00	2264.00	4528.00
6.7	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.										
	Using flats 30x6mm for diagonal braces and central cross piece	sqm	2906.65	5.00	0.00	0.00	0.00	14533.25	0.00	0.00	0.00



S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
6.8	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.										
	80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	2142.10	0.00	7.65	0.00	0.00	0.00	16387.07	0.00	0.00
6.9	Providing and fixing ball bearing for rolling shutters.	each	438.95	0.00	2.00	0.00	0.00	0.00	877.90	0.00	0.00
6.10	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	k.g	73.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6.11	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	5291.30	31.00	0.00	0.00	0.00	164030.30	0.00	0.00	0.00
6.12	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.										
	M.S. tube	Kg	104.70	1220.00	0.00	0.00	0.00	127734.00	0.00	0.00	0.00
	<b>Summary of Steel work</b>							<b>2676505.90</b>	<b>100339.55</b>	<b>203933.00</b>	<b>175887.90</b>
<b>7.0</b>	<b>FLOORING</b>										
7.1	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	sqm	785.40	214.00	15.36	22.00	17.00	168075.60	12066.10	17278.80	13351.80

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
7.2	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	836.56	1295.00	69.00	117.00	99.00	1083345.20	57722.64	97877.52	82819.44
7.3	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 1:4 (1cement : 4coarse sand)										
	25 mm thick	sqm	1141.40	3250.50	75.00	79.00	91.00	3710120.70	85605.00	90170.60	103867.40
7.3A	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	1191.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.4	Tile work in skirting, risers of steps and dado up to 2 m height over 12 mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm, including pointing in white cement mixed with pigment of matching shade complete.										
	Marble tiles (polished) Raj Nagar										
	1 8 mm thick	sqm	920.00	351.00	19.00	19.00	20.00	322920.00	17480.00	17480.00	18400.00
7.5	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete.										
	Size of Tile 600x600 mm	sqm	1405.95	479.00	35.00	95.00	67.00	673450.05	49208.25	133565.25	94198.65
7.6	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete.										

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
	Size of Tile 600x600 mm	sqm	1415.40	23.00	4.00	10.00	7.00	32554.20	5661.60	14154.00	9907.80
7.7	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 :										
	Raj Nagar plain.	sqm	1757.60	60.00	64.27	0.00	0.00	105456.00	112960.95	0.00	0.00
7.8	Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).										
	Light shade pigment using white cement	sqm	905.75	119.00	0.00	22.00	18.00	107784.25	0.00	19926.50	16303.50
7.9	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	metre	75.80	238.00	105.00	98.00	46.00	18040.40	7959.00	7428.40	3486.80
7.10	Extra for Kota stone/ sand stone in treads of steps and risers using single length up to 1.05 metre .	sqm	16.90	102.00	0.00	9.00	16.00	1723.80	0.00	152.10	270.40
7.11	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.										
	40 mm thick with 20 mm nominal size stone aggregate	sqm	353.53	37.00	0.00	0.00	0.00	13080.61	0.00	0.00	0.00
7.12	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 ( 1cement : 5 coarse sand) with joints finished flush.										
	Red sand stone	sqm	582.80	137.00	0.00	0.00	0.00	79843.60	0.00	0.00	0.00
7.13	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in- Charge.										
	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)										
	Acid and alkali resistant tile	sqm	1230.30	74.00	0.00	0.00	0.00	91042.20	0.00	0.00	0.00
7.14	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)										
	Acid and alkali resistant tile	sqm	1293.00	12.00	0.00	0.00	0.00	15516.00	0.00	0.00	0.00

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
7.16	Chequered terrazo tiles 22 mm thick with graded marble chips of size up to 6 mm in floors, jointed with neat cement slurry mixed with pigment to match the shade of the tiles, including rubbing and polishing complete, on 20 mm thick bed of cement mortar 1:4 (1 cement :4 coarse sand) :										
	Ordinary cement without any pigment	sqm	829.85	0.00	0.00	182.00	99.00	0.00	0.00	151032.70	82155.15
7.17	Cement plaster skirting up to 30 cm height, with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement.										
	18mm thick	sqm	377.25	0.00	0.00	14.48	15.00	0.00	0.00	5462.58	5658.75
7.18	Providing and fixing Glass mosaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-inCharge:	sqm	1752.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7.19	Extra for marble stone flooring in treads of steps and risers using single length up to 2.00 metre.	sqm	1141.40	36.00	0.00	0.00	0.00	41090.40	0.00	0.00	0.00
7.20	40 mm thick marble chips flooring rubbed and polished to granolithic finish, under layer 34 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) and top layer 6mm thick with white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4 mm nominal size, laid in cement marble powder mix 3:1 (3 cement : 1 marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 marble chips) by volume, including cement slurry etc. complete :										
	Ordinary cement without any pigment	sqm	564.60	1083.00	0.00	0.00	0.00	611461.80	0.00	0.00	0.00
	<b>Summary of Flooring work</b>							<b>7075504.81</b>	<b>348663.54</b>	<b>554528.45</b>	<b>430419.69</b>
8.0	<b>ROOFING</b>										
8.1	Providing and fixing on wall face unplasticised Rigid PVC rainwater pipes confirming to IS:13592 Type A including jointing with seal ring confirming to IS:5382 leaving 10 mm gap for thermal expansion.(l)single socketed pipes.										
8.1.1	110 mm diameter	metre	231.65	0.00	19.00	26.00	26.00	0.00	4401.35	6022.90	6022.90

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
8.2	Providing and fixing on wall face unplasticised PVC moulded fitting accessories for unplasticised Rigid PVC rain water pipes confirming to IS-13592 type A including jointing with seal ring confirming to IS 5382 leaving 10mm gap for thermal expansion.										
	Coupler										
8.2.1	110 mm	each	138.30	0.00	5.00	4.00	4.00	0.00	691.50	553.20	553.20
8.2.2	Single tee without door 110x110x110	each	248.55	0.00	5.00	4.00	4.00	0.00	1242.75	994.20	994.20
8.3	Bend 87.5* 110 mm bend	each	161.55	0.00	5.00	5.00	5.00	0.00	807.75	807.75	807.75
8.4	Shoes (plain) 110 mm shoe	each	295.10	0.00	5.00	5.00	5.00	0.00	1475.50	1475.50	1475.50
8.5	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.										
	110 mm	each	189.05	0.00	15.00	22.00	15.00	0.00	2835.75	4159.10	2835.75
8.6	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	each	41.10	90.00	10.00	10.00	5.00	3699.00	411.00	411.00	205.50
8.7	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :										
	In 75x75 mm deep chase	metre	143.10	418.00	81.00	70.45	76.00	59815.80	11591.10	10081.40	10875.60
8.8	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	each	186.65	65.00	5.00	5.00	5.00	12132.25	933.25	933.25	933.25

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
8.9	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :										
	100mm diameter	each	152.90	513.00	0.00	0.00	0.00	78437.70	0.00	0.00	0.00
	150mm diameter	each	164.55	228.00	0.00	0.00	0.00	37517.40	0.00	0.00	0.00
8.10	Providing lead caulked joints to sand cast iron rain water pipes and fittings:										
	100mm diameter	each	276.60	379.00	0.00	0.00	0.00	104831.40	0.00	0.00	0.00
	150mm diameter	each	382.60	169.00	0.00	0.00	0.00	64659.40	0.00	0.00	0.00
8.11	Providing, fixing and embedding sand cast iron accessories for rain water pipes in the masonry surrounded with 12 mm thick cement mortar of the same mix, as that of masonry (lead caulking will be paid for separately) :										
	Sand cast iron plain shoes :										
	150mm diameter	each	396.35	20.00	0.00	0.00	0.00	7927.00	0.00	0.00	0.00
8.12	Providing and fixing plain bend of required degree.										
	100 mm dia										
	Sand cast iron S&S as per IS - 1729	each	434.50	45.00	0.00	0.00	0.00	19552.50	0.00	0.00	0.00
8.13	Providing and fixing heel rest sanitary bend										
	100 mm dia										
	Sand cast iron S&S as per IS - 1729	each	318.35	65.00	0.00	0.00	0.00	20692.75	0.00	0.00	0.00
	<b>Summary of Roofing</b>							<b>409265.20</b>	<b>24389.95</b>	<b>25438.30</b>	<b>24703.65</b>
9.0	<b>FINISHING</b>										
9.1	12 mm cement plaster of mix :										
	1:6 (1 cement : 6 coarse sand)	sqm	158.40	6839.00	317.00	501.00	525.00	1083297.60	50212.80	79358.40	83160.00
9.2	15 mm cement plaster on the rough side of single or half brick wall of mix :										
	1:6 (1 cement : 6 coarse sand)	sqm	183.45	4809.00	498.00	787.00	880.00	882211.05	91358.10	144375.15	161436.00
9.3	6mm cement plaster 1:3 (1 cement : 3 fine sand) on ceiling / R.C.C. Beams etc.	sqm	134.70	4474.00	313.00	314.00	455.00	602647.80	42161.10	42295.80	61288.50
9.4	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	240.55	5177.00	0.00	0.00	0.00	1245327.35	0.00	0.00	0.00

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
9.5	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :										
	New work (two or more coats) over and including water tinnable priming coat with cement primer	sqm	89.70	16122.00	630.00	1009.00	984.00	1446143.40	56511.00	90507.30	88264.80
9.7	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :										
	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	94.95	0.00	402.00	626.00	710.00	0.00	38169.90	59438.70	67414.50
9.8	Finishing walls with water proofing cement paint of required shade :										
	New work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	57.85	5229.00	0.00	0.00	0.00	302497.65	0.00	0.00	0.00
9.9	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :										
	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	sqm	106.25	0.00	112.00	248.00	398.00	0.00	11900.00	26350.00	42287.50
9.10	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	89.65	21351.00	1032.00	1635.00	1694.00	1914117.15	92518.80	146577.75	151867.10
9.11	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :										
	Two or more coats on new work	sqm	80.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.12	Neat cement punning.	sqm	41.40	532.00	64.00	63.00	64.00	22024.80	2649.60	2608.20	2649.60
9.13	18 mm thick moulded cement mortar band in two coats under layer 12 mm thick with cement mortar 1:5 (1 cement : 5 coarse sand) top layer 6 mm thick with cement mortar 1:4 (1 cement : 4 fine sand).	cm per m	8.75	4200.00	0.00	0.00	0.00	36750.00	0.00	0.00	0.00
9.14	Extra for plastering exterior walls of height more than 10 m from ground level for every additional height of 3 m or part thereof.	sqm	37.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
9.15	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand ), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/ 2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in- charge (payment for providing grooves shall be made separately).	sqm	553.45	50.00	0.00	0.00	0.00	27672.50	0.00	0.00	0.00
9.16	Forming groove of uniform size in the top layer of washed stone grit plaster as per approved pattern using wooden battens, nailed to the under layer, including removal of wooden battens, repair to the edges of panels and finishing the groove complete as per specifications and direction of the Engineer-in-charge :										
	20 mm wide and 15 mm deep groove	mtr	32.10	20.00	0.00	0.00	0.00	642.00	0.00	0.00	0.00
9.17	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	50.65	58.00	9.00	12.00	9.00	2937.70	455.85	607.80	455.85
9.18	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.										
9.19.1	With ready mixed pink or grey primer on wood work (hard and soft wood) having VOC content less than 50 grams/ litre	sqm	36.10	1412.00	0.00	0.00	0.00	50973.20	0.00	0.00	0.00
9.19.2	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	35.85	156.00	0.00	0.00	0.00	5592.60	0.00	0.00	0.00
9.20	French spirit polishing :										
	Two or more coats on new works including a coat of wood filler	sqm	193.95	13.00	2.10	0.00	0.00	2521.35	407.30	0.00	0.00
9.21	12 mm cement plaster finished with a floating coat of neat cement of mix :										
	1:4 (1 cement: 4 fine sand)	sqm	203.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.22	White washing with lime to give an even shade :										
	New work (three or more coats)	sqm	16.20	0.00	0.00	270.00	225.00	0.00	0.00	4374.00	3645.00
9.23	Colour washing such as green, blue or buff to give an even shade :										
	New work (two or more coats) with a base coat of white washing with lime	sqm	22.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00



S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
	<b>Summary of Finishing</b>							<b>7625356.15</b>	<b>386344.45</b>	<b>596493.10</b>	<b>662468.85</b>
10.0	<b>WATER PROOFING</b>										
10.1	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of :										
	(i) 1st 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) 2nd 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) 3rd course of applying blown or residual bitumen applied hot at 1.7 kg. per sqm of area.										
	(iv) 4th 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	522.90	129.00	0.00	46.00	16.00	67454.10	0.00	24053.40	8366.40
10.2	Providing and laying integral cement based water proofing treatment including preparation of surfaces as required for treatment of roofs, balconies, terraces etc consisting of following operations : a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS 2645 and approved by Engineer-in-Charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment .										
	b) Laying brick bats with mortar using broken bricks / brick bats 25mm to 115mm size with 50% of cement mortar 1:5 (1cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in Charge over 20mm thick layer of cement mortar of max 1:5 (1cement : 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 300mm height including rounding of junctions of walls and slabs.										
	c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in Charge.										

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
	d) Finishing the surface with 20mm jointless cement mortar of mix 1:4 (1cement : 4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in Charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300mm square 3mm deep.										
	e) The whole terrace so finished shall be flooded with water for for minimum period of 2weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-charge:										
	With average thickness of 120mm and minimum thickness at khurra as 65 mm.	sqm	1019.05	2252.00	195.00	144.00	129.00	2294900.60	198714.75	146743.20	131457.45
10.3	Providing and applying two coats of High Albedo paint having minimum Solar Reflective Index (SRI) 108 (with solar reflectance & thermal emittance tested as per ASTM C 1549 and ASTM C 1371 respectively), VOC less than 10 cc/gm. The coating thickness and the methodology of application shall strictly as per manufacturer's specifications and as approved by engineer In charge. Surface preparation includes cleaning with metal wire brush to remove all dust, fungus etc., washing with water all complete. The contractor shall give guarantee for the performance of SRI and also the durability of coating, all complete as per direction of Engineer-in-charge.	sqm	257.60	2258.00	0.00	0.00	0.00	581660.80	0.00	0.00	0.00
	<b>Summary of Water Proofing</b>							<b>2944015.50</b>	<b>198714.75</b>	<b>170796.60</b>	<b>139823.85</b>
11.0	<b>MISCELLANEOUS WORK</b>										
11.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.										
11.1.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble										
	Area of slab upto 0.50 sqm	sqm	2341.55	116.00	5.00	9.18	6.00	271619.80	11707.75	21495.43	14049.30
11.2	Granite of any colour and shade										
	Area of slab over 0.50 sqm	sqm	3907.40	22.00	5.00	10.00	9.00	85962.80	19537.00	39074.00	35166.60

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
11.3	Providing edge moulding to 18mm thick marble/Granite stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer -in-charge.										
	Marble work	Mtr.	136.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Granite Work	Mtr.	230.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11.4	Extra for fixing marble/Granite stone over and above corresponding basic item, in facia and drops of width upto 150mm with epoxy resin based adhesive including cleaning etc.	Mtr.	247.40	70.00	7.00	15.00	13.00	17318.00	1731.80	3711.00	3216.20
11.5	Extra for providing opening of required size & shape for wash basins/ Kitchen sink in kitchen platform, vanity counters and similar location in marble /Granite /stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete	Each	386.60	37.00	1.00	4.00	4.00	14304.20	386.60	1546.40	1546.40
11.6	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :										
	For Fixed Portion.										
11.6.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC15	Kg	348.50	88.00	0.00	0.00	0.00	30668.00	0.00	0.00	0.00
11.7	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)										
	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC15	Kg	405.90	47.00	0.00	0.00	0.00	19077.30	0.00	0.00	0.00

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
11.8	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):										
	with float glass panes of 5.5 mm thickness	Sqm	1054.20	15.00	0.00	0.00	0.00	15813.00	0.00	0.00	0.00
11.9	Providing and fixing IS:3564 marked Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screws etc. complete	each	753.75	2.00	0.00	0.00	0.00	1507.50	0.00	0.00	0.00
11.10	Filling the gap between Al frame & adjacent RCC/Brick/Stone wall by providing wather silicon sealent over backer rod of approvd quality as per architectural drawings & directions of eng. In charge										
	Upto 5 mm depth & 5 mm width	metre	88.75	53.00	0.00	0.00	0.00	4703.75	0.00	0.00	0.00
11.11	Providing and fixing aluminium tubular handle bar 32mm outer dia 3.0mm thick and 2100mm long with SS screws etc complete as per direction of Engineer in Charge										
	Powder coated minimum thickness 50 micron aluminium tubular handle	each	508.55	4.00	0.00	0.00	0.00	2034.20	0.00	0.00	0.00
11.12	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	311.60	10.00	0.00	0.00	0.00	3116.00	0.00	0.00	0.00
11.13	Red sand stone - Exposed face machine cut and table rubbed with rough backing.										
	Red sand stone	sqm	3036.60	429.00	0.00	0.00	0.00	1302701.40	0.00	0.00	0.00

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
11.14	Providing and fixing stainless steel cramps of required size and shape for anchoring stone wall lining to the backing or securing adjacent stones in stone wall lining in cement mortar 1:2 (1 cement : 2 coarse sand), including making the necessary chases in stone and holes in walls wherever required.	Kg	574.65	91.00	0.00	0.00	0.00	52293.15	0.00	0.00	0.00
	<b>Summary of Miscellaneous works</b>							<b>1821119.10</b>	<b>33363.15</b>	<b>65826.83</b>	<b>53978.50</b>
	<b>TOTAL RATE (A)</b>							<b>80082413.61</b>	<b>4035931.93</b>	<b>6199571.79</b>	<b>5668986.35</b>
12.1	<b>Chicken Mesh</b> : P/F hexagonal chicken mesh having opening 20mmx20mm of 26 gauge at junctions of concrete & brick work or between different material etc. as directed by Engineer-in-charge.	sqm	218.00	1430.00	79.00	314.00	140.00	311740.00	17222.00	68452.00	30520.00
12.2	Filling of sunk portion of roof with foam concrete of required height including filling complete levelling and dressing the surface by 50mm thick cement concrete 1:2:4 as per specification.	cum	1914.00	41.00	0.00	5.00	4.00	78474.00	0.00	9570.00	7656.00
12.3	Providing and fixing steel glazed doors, windows and ventilators, side /top /centre hung, with MS tubular section 50x25mm and 10mm MS bar beading to fix glass, SS jalli complete of standard tubular steel sections, joints mitred and flash butt welded and sash bars tenoned and riveted, including providing and fixing of hinges, pivots, including priming coat of approved steel primer, but excluding the cost of other fittings, complete all as per approved design and drawing. 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)	cum	2312.00	405.00	0.00	0.00	0.00	936360.00	0.00	0.00	0.00
12.4	Forming groove of uniform size from 12x12mm and upto 25x15mm in plastered surface as per approved pattern using wooden battens, nailed to the under layer including removal of wooden battens, repairs to the edges of plaster panel and finishing the groove complete as per specifications and direction of the Engineer-in-Charge.	cum	31.29	2220.00	0.00	0.00	0.00	69463.80	0.00	0.00	0.00

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
12.5	Providing and fixing Full height cupboard: Providing and fixing storage unit height made out of 19 mm commercial board for verticals, top, bottom and intermediate vertical partitions as per drawing detail. Shutters shall be in 25 mm commercial board with teak wood lipping all-round. The front to be finished with 1 mm thk laminate. Shelves: Shelves are made of 19 mm BWR grade plywood with teak wood lipping a. The teak wood lipping shall be polished.3 coat hooks and a hanging rod in CB shall be taken. All top of shelves shall be laminated with 1.0 mm thick laminate of white shade. The top of storage unit also to be finished with a 1mm thk lamianate. The bottom/sides of shelves and other surfaces to be painted with enamel paint of approved shade. Following hardware to be provided in cupboards: Aluminum Handles of 125mm long for each shutter, 1 tower bolt of 150 X10 mm and 2 magnetic catcher with 1 chapka for locking.	sqm	8950.00	106.00	8.00	20.16	20.16	948700.00	71600.00	180432.00	180432.00
12.6	Granite stone flooring with 18 mm thick tan brown as per sample of marble approved by Engineerin- 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 :	sqm	6084.00	61.00	0.00	0.00	0.00	371124.00	0.00	0.00	0.00
12.7	Granite skirting, risers of steps and dado upto 2 m height, over 12 mm thick bed of cement mortar 1:3 (1 cement :3 coarse sand) and jointed with grey cement slurry @ 3.3 kg/sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	3245.51	9.00	0.00	0.00	0.00	29209.59	0.00	0.00	0.00
12.8	Supply, Installation, Testing and commissioning of Chemistry lab in School consisting all material, equipments & instruments including cost of copper piping with all specials, fixtures and fittings for gas supply network, bunson burners, flexi connection pipes, tools, plants, machinary, labour, dismantling, demolishing and cost of making good the walls same etc complete work as the given design, drawings & instruction from Engineer-in-charge	Job	167032.50	1.00	0.00	0.00	0.00	167032.50	0.00	0.00	0.00
12.9	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 Engineerin- Charge. (Cost of aluminium snap beading shall be paid in basic item): With reflective glass pane of 5.50 mm thickness	sqm	1939.15	205.00	0.00	0.00	0.00	397525.53	0.00	0.00	0.00

S. No.	Item	Unit	Rate	QTY-School	QTY-Type V	Qty-Type III	Qty-Type II	Amount School	Amount TYPE 5	Amount TYPE 3	Amount TYPE 2
12.10	Providing and fixing on wall face Sand cast iron S&S pipe as per IS: 1729 rain water pipes (i) Single socketed pipes. - 100 mm dia	Mtr	857.00	513.00	0.00	0.00	0.00	439641.00	0.00	0.00	0.00
12.11	Providing and fixing on wall face Sand cast iron S&S pipe as per IS: 1729 rain water pipes (i) Single socketed pipes. - 150 mm dia	Mtr	1449.00	228.00	0.00	0.00	0.00	330372.00	0.00	0.00	0.00
12.12	Providing and fixing S.C.I. Plain bend of required degree										
	150mm diameter	each	927.00	20.00	0.00	0.00	0.00	18540.00	0.00	0.00	0.00
	<b>TOTAL AMT (B)</b>							<b>4098182.41</b>	<b>88822.00</b>	<b>258454.00</b>	<b>218608.00</b>

Name of Work: CONSTRUCTION OF KENDRIYA VIDHYALAYA AT SHRAWASTI											
ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
<b>SCHEDULE-A</b>											
<b>SANITARY INSTALLATIONS</b>											
1.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :										
	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	3,392.80	22.00	2.00	6.00	6.00	74,641.60	6,785.60	20,356.80	20,356.80
1.2	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :										
	W.C. pan with ISI marked white solid plastic seat and lid	each	4,784.60	12.00	2.00	2.00	2.00	57,415.20	9,569.20	9,569.20	9,569.20
1.3	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :										



ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	each	3,326.10	4.00	-	-	-	13,304.40	-	-	-
	Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	each	5,399.40	2.00	-	-	-	10,798.80	-	-	-
	Range of four urinal basins with 10 litre white P.V.C. automatic flushing cistern	each	10,045.40	4.00	-	-	-	40,181.60	-	-	-
<b>1.3.a</b>	Providing and fixing one piece construction white vitreous china squatting plate with an integral longitudinal flushing pipe, white P.V.C. automatic flushing cistern, with fittings, standard size G.I. / PVC flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P. brass coupling complete, including painting of fittings and cutting and making good the walls and floors etc. wherever required :										
	Range of three squatting plates with 10 litre P.V.C. automatic flushing cistern	each	9,952.55	-	-	-	-	-	-	-	-
<b>1.4</b>	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 tap	each	2,331.15	4.00	4.00	8.00	8.00	9,324.60	9,324.60	18,649.20	18,649.20
<b>1.5</b>	Providing and fixing 100 mm sand cast Iron grating for gully trap	each	29.50	10.00	5.00	4.00	4.00	295.00	147.50	118.00	118.00
<b>1.6</b>	Providing and fixing in position 25 mm diameter mosquito proof coupling of approved municipal design.	each	38.60	22.00	5.00	2.00	4.00	849.20	193.00	77.20	154.40

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
1.7	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	793.95	4.00	4.00	8.00	4.00	3,175.80	3,175.80	6,351.60	3,175.80
1.8	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore	each	507.70	56.00	16.00	36.00	24.00	28,431.20	8,123.20	18,277.20	12,184.80
1.9	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore	each	459.50	34.00	3.00	8.00	4.00	15,623.00	1,378.50	3,676.00	1,838.00
1.10	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931a) 15 mm nominal bore	each	619.75	12.00	3.00	8.00	4.00	7,437.00	1,859.25	4,958.00	2,479.00
1.11	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. 15 mm nominal bore	each	796.70	9.00	1.00	8.00	12.00	7,170.30	796.70	6,373.60	9,560.40
1.12	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 38 mm 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 263 gms	each	518.15	4.00	4.00	12.00	4.00	2,072.60	2,072.60	6,217.80	2,072.60

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
1.13	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.										
	<b>Internal work-Exposed on wall</b>										
	15mm dia. nominal outer dia pipe	metre	163.50	30.00	1.00	2.00	1.00	4,905.00	163.50	327.00	163.50
	20mm dia. nominal outer dia pipe	metre	190.55	38.00	1.00	2.00	1.00	7,240.90	190.55	381.10	190.55
	25mm dia. nominal outer dia pipe	metre	231.30	38.00	1.00	2.00	4.00	8,789.40	231.30	462.60	925.20
	32mm dia. nominal outer dia pipe	metre	296.70	307.00	-	-	-	91,086.90	-	-	-
	40mm dia. nominal outer dia pipe	metre	407.90	-	-	-	-	-	-	-	-
	50mm dia. nominal outer dia pipe	metre	581.55	57.00	-	-	-	33,148.35	-	-	-
1.14	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.										
	Concealed work, including cutting chases and making good the walls etc.										
	15mm dia. nominal outer dia pipe	metre	270.00	173.00	45.00	72.00	60.00	46,710.00	12,150.00	19,440.00	16,200.00
	20mm dia. nominal outer dia pipe	metre	296.40	137.00	45.00	20.00	23.60	40,606.80	13,338.00	5,928.00	6,995.04
	25mm dia. nominal outer dia pipe	metre	351.30	65.00	-	-	-	22,834.50	-	-	-
	32mm dia. nominal outer dia pipe	metre	422.40	61.00	-	-	-	25,766.40	-	-	-

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
1.15	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.										
	External work										
	25mm dia. nominal outer dia pipe	metre	209.50	-	-	-	-	-	-	-	-
	32mm dia. nominal outer dia pipe	metre	262.35	-	-	-	-	-	-	-	-
	40mm dia. nominal outer dia pipe	metre	350.50	-	-	-	-	-	-	-	-
	50mm dia. nominal outer dia pipe	metre	524.10	-	-	-	-	-	-	-	-
	62.5mm dia. Nominal inner dia pipes	metre	1,462.35	-	-	-	-	-	-	-	-
1.16	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.										
	25 to 40 mm nominal bore	each	367.75	1.00	2.00	1.00	1.00	367.75	735.50	367.75	367.75
	50 to 80 mm nominal bore	each	761.10	-	-	-	-	-	-	-	-
	<b>Brass fittings</b>										
	Providing and fixing brass stop cock of approved quality										
	15 mm nominal bore	each	260.60	4.00	3.00	8.00	8.00	1,042.40	781.80	2,084.80	2,084.80
	20 mm nominal bore	each	344.85	4.00	5.00	4.00	8.00	1,379.40	1,724.25	1,379.40	2,758.80
1.18	Providing and fixing gun metal gate valve with C.I. wheel of approved quality(screwed end )										
	25 mm nominal bore	each	428.85	1.00	2.00	1.00	1.00	428.85	857.70	428.85	428.85
	32 mm nominal bore	each	501.50	9.00	-	-	-	4,513.50	-	-	-
	40 mm nominal bore	each	585.50	-	-	-	-	-	-	-	-
	50 mm nominal bore	each	750.75	1.00	-	-	-	750.75	-	-	-
	65 mm nominal bore	each	1,287.75	-	-	-	-	-	-	-	-
1.19	Providing and fixing gun metal non- return valve of approved quality (screwed end )										
	25 mm nominal bore										

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
	Horizontal	each	411.25	-	2.00	1.00	1.00	-	822.50	411.25	411.25
	Vertical	each	446.10	-	2.00	1.00	1.00	-	892.20	446.10	446.10
	40 mm nominal bore							-	-	-	-
	Horizontal	each	1,769.60	1.00	-	-	-	1,769.60	-	-	-
	Vertical	each	2,025.15	-	-	-	-	-	-	-	-
<b>1.20</b>	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :										
	15mm nominal bore	each	360.50	151.00	35.00	38.00	22.00	54,435.50	12,617.50	13,699.00	7,931.00
	20mm nominal bore	each	383.70	-	5.00	4.00	4.00	-	1,918.50	1,534.80	1,534.80
	25mm nominal bore	each	395.30	-	3.00	2.00	4.00	-	1,185.90	790.60	1,581.20
	32 mm nominal bore.	each	436.00	5.00	-	-	-	2,180.00	-	-	-
	40 mm nominal bore	each	511.45	-	-	-	-	-	-	-	-
	50 mm nominal bore	each	658.60	-	-	-	-	-	-	-	-
<b>1.21</b>	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.	per liter	7.25	-	1,000.00	2,000.00	1,000.00	-	7,250.00	14,500.00	7,250.00
<b>1.22</b>	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	each	228.85	-	4.00	8.00	4.00	-	915.40	1,830.80	915.40
<b>1.23</b>	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.										

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
	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	541.50	-	4.00	8.00	4.00	-	2,166.00	4,332.00	2,166.00
<b>1.24</b>	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	each	86.35	-	3.00	8.00	4.00	-	259.05	690.80	345.40
<b>1.25</b>	Providing and fixing white vitreous china laboratory sink with C.I.brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required : Size 600x450x200 mm	each	3,162.75	9.00	-	-	-	28,464.75	-	-	-
<b>1.26</b>	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm,including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink with drain board 510x1040 mm bowl depth 200 mm	each	7,052.15	-	1.00	-	-	-	7,052.15	-	-
<b>1.27</b>	Kitchen sink without drain board 610x510 mm bowl depth 200 mm	each	4,343.45	-	-	4.00	4.00	-	-	17,373.80	17,373.80
<b>1.28</b>	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 1500x450 mm	each	1,332.45	18.00	-	-	-	23,984.10	-	-	-
	<b>C. I. / DUCTILE IRON Pipes and specials</b>										

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
2.1	Providing and fixing soil, waste and vent pipes :										
	Centrifugally cast (spun) iron S&S pipe as per IS:3989										
	100 mm dia.	metre	917.75	394.00	64.30	80.00	37.00	3,61,593.50	59,011.33	73,420.00	33,956.75
	75 mm dia.	metre	791.30	-	-	-	-	-	-	-	-
2.2	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :										
	For 100 mm dia. pipe	each	152.90	394.00	7.00	30.00	24.00	60,242.60	1,070.30	4,587.00	3,669.60
	For 75 mm dia. pipe	each	150.60	-	-	-	-	-	-	-	-
2.3	Providing and fixing plain bend of required degree.										
	Centrifugally cast (spun) iron S&S as per IS:3989										
	100 mm	each	335.75	29.00	12.00	10.00	14.00	9,736.75	4,029.00	3,357.50	4,700.50
	75 mm	each	248.80	-	-	-	-	-	-	-	-
2.4	Providing and fixing heel rest sanitary bend										
	Centrifugally cast (spun) iron S&S as per IS:3989										
	100 mm dia	each	371.75	14.00	2.00	10.00	4.00	5,204.50	743.50	3,717.50	1,487.00
	75 mm dia	each	312.75	-	-	-	-	-	-	-	-
2.5	Providing and fixing terminal guard										
	100mm										
	Sand cast iron S&S as per IS:3989.	each	434.50	14.00	-	-	-	6,083.00	-	-	-
2.6	Providing and fixing collar:										
	Centrifugally cast (spun) iron S&S as per IS:3989										
	100 mm	each	318.35	14.00	2.00	-	4.00	4,456.90	636.70	-	1,273.40

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
2.7	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :										
	100 mm diametre pipe	each	243.75	269.00	6.00	8.00	8.00	65,568.75	1,462.50	1,950.00	1,950.00
2.8	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter:										
	100 mm	each	68.60	14.00	2.00	4.00	2.00	960.40	137.20	274.40	137.20
2.9	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :										
	100 mm inlet and 100 mm outlet										
	Centrifugally cast (spun) iron S&S as per IS:3989	each	982.55	25.00	4.00	8.00	8.00	24,563.75	3,930.20	7,860.40	7,860.40
2.10	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), 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 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :										
	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :										
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	4,692.05	5.00	2.00	2.00	2.00	23,460.25	9,384.10	9,384.10	9,384.10



ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
2.11	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design										
	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :										
	With Sewer bricks conforming IS : 4885	each	17,166.25	1.00	2.00	1.00	1.00	17,166.25	34,332.50	17,166.25	17,166.25
2.12	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 :										
	100 x 100 mm size P type										
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1,571.25	6.00	2.00	2.00	4.00	9,427.50	3,142.50	3,142.50	6,285.00

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
2.13	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 :										
	100mm diameter	metre	206.00	60.00	-	-	-	12,360.00	-	-	-
	150 mm diameter	metre	314.35	-	50.00	40.00	35.00	-	15,717.50	12,574.00	11,002.25
2.14	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 :										
	100 mm diameter S.W. pipe	metre	529.60	60.00	-	-	-	31,776.00	-	-	-
	150 mm diameter S.W. pipe	metre	724.70	-	50.00	40.00	70.00	-	36,235.00	28,988.00	50,729.00
2.15	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 :										
	100 mm diameter S.W. pipe	metre	281.65	-	10.00	5.00	10.00	-	2,816.50	1,408.25	2,816.50
	150 mm diameter S.W. pipe	metre	456.45	60.00	50.00	40.00	35.00	27,387.00	22,822.50	18,258.00	15,975.75
2.16	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 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides										
	For pipes 100 to 250 mm diameter	each	436.00	6.00	2.00	2.00	2.00	2,616.00	872.00	872.00	872.00

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
2.18	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :										
	All kinds of soil										
	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	208.30	60.00	60.00	40.00	45.00	12,498.00	12,498.00	8,332.00	9,373.50
2.19	Cutting holes up to 30x30 cm in walls including making good the same.										
	With common burnt clay F.P.S. (non modular) bricks	each	207.50	10.00	4.00	5.00	-	2,075.00	830.00	1,037.50	-
2.20	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	each	193.00	10.00	-	5.00	6.00	1,930.00	-	965.00	1,158.00
2.21	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	metre	85.50	-	-	-	-	-	-	-	-
2.22	Making hole up to 20x20 cm and embedding pipes up to 150 mm diameter in masonry and filling with cement concrete 1:3:6 (1 cement : 3 coarse sand 6 graded stone aggregate 20 mm nominal size) including disposal of malba.	metre	130.80	-	-	-	-	-	-	-	-
2.23	Extra for depth beyond 45 cm of brick masonry chamber :										

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
	For 455x610 mm size										
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	3,924.65	1.00	-	-	-	3,924.65	-	-	-
<b>2.24</b>	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	311.60	6.00	14.00	6.00	6.00	1,869.60	4,362.40	1,869.60	1,869.60
<b>2.25</b>	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.										
	Granite Stone of approved shade	Sqm	3,263.50	9.75	-	-	-	31,819.13	-	-	-
<b>2.26</b>	Providing and fixing PTMT grating of approved quality and colour.										
	Circular type										

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
	125 mm nominal dia with 25 mm waste hole	each	57.35	44.00	7.00	16.00	10.00	2,523.40	401.45	917.60	573.50
	External Water supply work										
<b>2.27</b>	Providing and laying S&S C.I. Standard specials such as tees, bends, collars tapers and caps etc, suitable for flanged jointing as per IS : 1538 :										
	Up to 300 mm dia	quintal	6,596.55	3.00	1.00	1.00	1.00	19,789.65	6,596.55	6,596.55	6,596.55
<b>2.28</b>	Providing and fixing PTMT pillar cock of approved quality and colour										
	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	228.70	18.00	-	-	-	4,116.60	-	-	-
<b>2.29</b>	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :										
	Rectangular shape 1500x450 mm	Each	1,332.45	-	1.00	-	-	-	1,332.45	-	-
<b>2.29</b>	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.										
	Flexible pipe										
	40 mm dia	Each	76.75	20.00	7.00	-	-	1,535.00	537.25	-	-
	<b>TOTAL FOR SCHEDULE-A FOR SANITARY WORKS</b>							<b>14,15,809.33</b>	<b>3,31,579.18</b>	<b>3,87,711.40</b>	<b>3,39,064.49</b>
<b>4.1</b>	Providing & fixing copper gas pipe line to all 7 points including piping with fitting and closing/control valves and all accessories with termination complete in all respect for chemistry lab.	job	1,44,022.00	1.00	-	-	-	1,44,022.00	-	-	-
<b>4.2</b>	Providing and fixing single lever basin mixture hindware make model-Essence	each	2,537.19	2.00	3.00	-	-	5,074.39	7,611.58	-	-

ABSTRACT OF SANITARY QUANTITIES											
S. No.	DESCRIPTION	UNIT	RATE	SCHOOL QTY	Type V QTY	TYPE III QTY	TYPE II QTY	SCHOOL AMOUNT	Type V AMOUNT	TYPE III AMOUNT	TYPE II AMOUNT
4.3	Hindware Hand Shower (Health Faucet)Abs With 1 .2 M Brass Flexible Tube & Wall Hook. - F1 60037	each	1,091.01	34.00	3.00	-	-	37,094.17	3,273.02	-	-
4.4	Hindware Contessa F100023 Kitchen Sink Mixer (Chrome)	each	2,781.30	-	1.00	-	-	-	2,781.30	-	-
4.5	Racold-25 Ltr Gyser Altro 2 Vertical AN-25	each	12,814.20	-	1.00	1.00	1.00	-	12,814.20	12,814.20	12,814.20
4.6	Providing and fixing wash basin under counter with C.I. brackets, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require.	each	2,806.49	18.00	-	-	-	50,516.89	-	-	-
4.7	Hindware Classik 2 in 1 Bib Cock with Wall Flange (F200004CP)	each	1,255.23	34.00	-	-	-	42,677.65	-	-	-
4.7	Providing and fixing brass clean out plugs of 100 mm dia.	each	998.00	8.00	-	-	-	7,984.00	-	-	-
	<b>SUB-TOTAL FOR SCHEDULE-B FOR SANITARY WORKS</b>							<b>2,87,369.10</b>	<b>26,480.09</b>	<b>12,814.20</b>	<b>12,814.20</b>
	<b>TOTAL (A+B) FOR SANITARY WORKS</b>							<b>17,03,178.43</b>	<b>3,58,059.27</b>	<b>4,00,525.60</b>	<b>3,51,878.69</b>

**PROJECT:- K.V.SHRAWASTI- SCHOOL BUILDING**

S.NO.	DESCRIPTION	UNIT	SCHOOL BUILDING		TOTAL QTY.	RATE	AMOUNT
			GF	FF			
<b>SECTION-1: SCHEDULE-A</b>							
<b>POINT WIRING</b>							
1.0	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.						
a)	GROUP-C	Point	348	287	635	718.00	4,55,930.00
2.0	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	6	6	12	770.00	9,240.00
3.0	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	450	400	850	162.00	1,37,700.00
4.0	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 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	225	200	425	275.00	1,16,875.00
5.0	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						
a)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Meter	450	400	850	131.00	1,11,350.00
b)	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Meter	10	10	20	162.00	3,240.00
c)	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	Meter	225	200	425	210.00	89,250.00
d)	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Meter	100	200	300	389.00	1,16,700.00
e)	4 X 10 sq. mm + 2 X 10 sq. mm earth wire	Meter	110		110	597.00	65,670.00
6.0	Supplying and drawing following pair, 0.5 mm dia FRLS PVC insulated copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.						
a)	2 Pair	Meter	80		80	18.00	1,440.00
7.0	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.(for Telephone System)						

S.NO.	DESCRIPTION	UNIT	SCHOOL BUILDING		TOTAL QTY.	RATE	AMOUNT
			GF	FF			
a)	20 mm.	Meter	40		40	53.00	2,120.00
b)	25 mm.	Meter	40		40	65.00	2,600.00
c)	32 mm.	Meter	10		10	85.00	850.00
d)	40 mm.	Meter	10		10	110.00	1,100.00
8.0	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.						
a)	Telephone socket outlet.	Each	3		3	95.00	285.00
9.0	Providing and fixing circular / Hexagonal cast iron or M.S Sheet Box for ceiling fan clamp of internal dia 140 mm , 73 mm height top lid of 1.5 mm thick M.S Sheet with its top surface hacked for proper bonding , top lid shall be screwed into the cast iron / M.S sheet box by means of 3.3 mm dia round headed screws , one lock at the corners clamp shall be made of 12 mm dia M.S bar bent to shape as per standard drawing	Each	121	108	229	138.00	31,602.00
10.0	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	121	108	229	284.00	65,036.00
11.0	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.						
a)	1 or 2 Module (75mm x 75mm)	Each	3		3	166.00	498.00
12.0	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 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings).	Each	17	16	33	303.00	9,999.00
13.0	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 15/16 & 5/6 amps modular socket outlet and 15/16 amps modular switch, connection, painting etc. as required.	Each	25	24	49	395.00	19,355.00
14.0	Supplying and fixing call bell/ buzzer suitable for D.C./A.C. single phase, 230 volts, complete as required.	Each	1		1	61.00	61.00
15.0	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	223	178	401	91.00	36,491.00



S.NO.	DESCRIPTION	UNIT	SCHOOL BUILDING		TOTAL QTY.	RATE	AMOUNT
			GF	FF			
16.0	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 / Chandelier light fixture.	Each	117	104	221	122.00	26,962.00
17.0	Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required.	Each	6	4	10	204.00	2,040.00
18.0	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	6	4	10	90.00	900.00
19.0	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)						
a)	6 way (4 + 18), Double door	Each	1	3	4	2,636.00	10,544.00
b)	8 way (4 + 24), Double door	Each	3	1	4	3,148.00	12,592.00
20.0	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
a)	Single Pole	Each	81	71	152	169.00	25,688.00
21.0	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	9	4	13	7.00	91.00
22.0	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
a)	40 A	Each	2	4	6	2,123.00	12,738.00
b)	63 A	Each	2		2	2,294.00	4,588.00
23.0	Supplying and fixing 20amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps '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	12		12	954.00	11,448.00
<b>TOTAL SCHEDULE-A</b>							<b>13,84,983.00</b>
<b>SECTION- 2: SCHEDULE-B</b>							

S.NO.	DESCRIPTION	UNIT	SCHOOL BUILDING		TOTAL QTY.	RATE	AMOUNT
			GF	FF			
24.0	Supply and fixing of the following Telephone Tag Block made out of M.S sheets of 18 SWG thickness properly welded complete with all accessories such as Tag block, connector (KRONE make), mounting strips, tapped holes, fixing bolts, approved shad of paint after primer as per specifications.						
a)	10 Pair	Nos.	1		1	1,601.00	1,601.00
25.0	Supply of the following luminaires comprising of basic channel, holder, Electronic Ballast / Low Loss Copper Ballast (as mentioned in BOQ) starter, condenser, control gear box complete with decorative attachments, lamps etc. as per specification and as per catalogue number giving below						
a(i)	18W LED Wall mounted LED light fixture .Havells Cat No. LHEXBTPP7UN1W018(4ft) or equivalent.	Nos	38	28	66	<b>1,325.00</b>	87,450.00
a(ii)	9W LED Wall mounted LED light fixture .Havells Cat No. LHEXBTPP7UN1W009 (2ft)or equivalent.	Nos	13	5	18	<b>880.00</b>	15,840.00
b)	Surface mounted ceiling 15W LED light fixture Philips Cat No. SM 518C LED 9S 6500PSU OD WH.	Nos	4		4	<b>3,675.00</b>	14,700.00
c(i)	1 x 18W LED light fixture. Philips Cat No. TMC 501 P 1XT-LED 22W P3241with 1x18W LED Tube.	Nos	74	54	128	<b>1,854.00</b>	2,37,312.00
c(ii)	2 x 18W LED light fixture. Philips Cat No. TMC 501 P 2XT-LED 22W P3242 with 2x18W LED Tube.	Nos	94	91	185	<b>3,285.00</b>	6,07,725.00
d)	Philips BVP 120 LED 70 CW NB FG S1 PSU GR 70W LED or equa.(Flood light for School building courtyard)	Nos.	4		4	14,931.00	59,724.00
26.0	<b>SUPPLY OF CEILING/ PROPELLER TYPE EXHAUST FANS (WITH GRAVITY LOUVERS) / CABIN FAN.</b>						
a)	1200 mm sweep Ceiling fan.	Nos	117	104	221	<b>2,293.00</b>	5,06,753.00
b)	380 mm dia 900 RPM exhaust fan.	Nos	4	4	8	<b>4,103.00</b>	32,824.00
c)	300 mm dia 900 RPM exhaust fan.	Nos	2		2	<b>3,460.00</b>	6,920.00
<b>TOTAL SECTION-2: SCHEDULE-B</b>							<b>15,70,849.00</b>
<b>TOTAL OF SECTION- 1 &amp; 2</b>							<b>29,55,832.00</b>

**PROJECT:- K.V.SHRAWASTI-STAFF QUARTER-TYPE-II**

S.NO.	DESCRIPTION	UNIT	Type-ii (4Nos.)	RATE	AMOUNT
	<b>SECTION- 2: SCHEDULE-A POINT WIRING</b>				
1.0	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.				
a)	GROUP-B (Guard Room / Canteen / ESS / Pump room)	Point	80	585.00	46,800.00
2.0	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	10	770.00	7,700.00
3.0	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	200	162.00	32,400.00
4.0	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 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	100	275.00	27,500.00
5.0	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				
a)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Meter	240	131.00	31,440.00
b)	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Meter	75	221.00	16,575.00
c)	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	Meter	40	210.00	8,400.00
6.0	Supplying and drawing following pair, 0.5 mm dia FRLS PVC insulated copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a)	2 Pair	Meter	80	18.00	1,440.00
7.0	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.(for Telephone System)				
a)	20 mm.	Meter	40	53.00	2,120.00
b)	25 mm.	Meter	40	65.00	2,600.00

S.NO.	DESCRIPTION	UNIT	Type-ii (4Nos.)	RATE	AMOUNT
c)	32 mm.	Meter	10	85.00	850.00
d)	40 mm.	Meter	10	110.00	1,100.00
8.0	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a)	Telephone socket outlet.	Each	4	95.00	380.00
9.0	Providing and fixing circular / Hexagonal cast iron or M.S Sheet Box for ceiling fan clamp of internal dia 140 mm , 73 mm height top lid of 1.5 mm thick M.S Sheet with its top surface hacked for proper bonding , top lid shall be screwed into the cast iron / M.S sheet box by means of 3.3 mm dia round headed screws , one lock at the corners clamp shall be made of 12 mm dia M.S bar bent to shape as per standard drawing	Each	12	138.00	1,656.00
10.0	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	12	284.00	3,408.00
11.0	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
a)	1 or 2 Module (75mm x 75mm)	Each	4	166.00	664.00
12.0	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 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings).	Each	12	303.00	3,636.00
13.0	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 15/16 & 5/6 amps modular socket outlet and 15/16 amps modular switch, connection, painting etc. as required.	Each	20	395.00	7,900.00
14.0	Supplying and fixing brass batten/angle holder including connection etc as required.	Each	12	74.00	888.00
15.0	Supplying and fixing call bell/ buzzer suitable for D.C./A.C. single phase, 230 volts, complete as required.	Each	4	61.00	244.00
16.0	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	57	91.00	5,187.00
17.0	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 / Chandelier light fixture.	Each	12	122.00	1,464.00

S.NO.	DESCRIPTION	UNIT	Type-ii (4Nos.)	RATE	AMOUNT
18.0	Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required.	Each	12	204.00	2,448.00
19.0	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	12	90.00	1,080.00
20.0	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
a)	2+8 way Double door	Each	4	1,132.00	4,528.00
21.0	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	Single Pole	Each	32	169.00	5,408.00
22.0	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	40 amps	Each	4	1,714.00	6,856.00
23.0	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	1	3,926.00	3,926.00
24.0	Providing and fixing 6 SWG GI wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring /cable as required.	RM	20	23.00	460.00
<b>TOTAL SECTION-1 (SCHEDULE-A)</b>					<b>2,29,058.00</b>
<b>SECTION- 2: SCHEDULE-B</b>					
25.0	Supply and fixing of the following Telephone Tag Block made out of M.S sheets of 18 SWG thickness properly welded complete with all accessories such as Tag block, connector (KRONE make), mounting strips, tapped holes, fixing bolts, approved shad of paint after primer as per specifications.				
a)	10 Pair	Nos.	1	1,601.00	1,601.00
26.0	<b>TELEPHONE CABLES</b>				

S.NO.	DESCRIPTION	UNIT	Type-ii (4Nos.)	RATE	AMOUNT
26.1	Supplying, wiring and connecting following pairs 0.6 mm dia twin core tinned copper conductor PVC insulated and sheathed Unarmoured telephone cables in existing pipes.				
a)	10 pair cable	RM	10	78.00	780.00
27.0	Same as 26.1 but 10 pair telephone cable of jelly filled Armored cable. in existing pipe.	RM	65	140.00	9,100.00
28.0	Supply of the following luminaires comprising of basic channel, holder, Electronic Ballast / Low Loss Copper Ballast (as mentioned in BOQ) starter, condenser, control gear box complete with decorative attachments, lamps etc. as per specification and as per catalogue number giving below				
a(i)	18W LED Wall mounted LED light fixture .Havells Cat No. LHEXBTPP7UN1W018(4ft) or equivalent.	Nos	21	<b>1,325.00</b>	27,825.00
a(ii)	9W LED Wall mounted LED light fixture .Havells Cat No. LHEXBTPP7UN1W009 (2ft)or equivalent.	Nos	4	<b>880.00</b>	3,520.00
b)	Wall bracket LED Lumeno 10W E27 WW Ball Lamp.Havells cat.No.LHLDEBHEMD8X010 or equivalent.	Nos	12	<b>529.00</b>	6,348.00
c)	Decorative surface 12W LED Down light fixture HPL Cat No. HLPLEDSM12(OW)(Round shape) or equivalent.	Nos	16	<b>1,414.00</b>	22,624.00
d)	10Watt LED Bulk head light fixture Philips Cat No WT202W P LED 6S CW PSU S1 PC or equivalent	Nos.	4	<b>1,782.00</b>	7,128.00
29.0	<b>SUPPLY OF CEILING/ PROPELLER TYPE EXHAUST FANS (WITH GRAVITY LOUVERS) / CABIN FAN.</b>				
a)	1200 mm sweep Ceiling fan.	Nos	12	<b>2,293.00</b>	27,516.00
b)	300 mm dia 900 RPM exhaust fan.	Nos	12	<b>3,460.00</b>	41,520.00
30.0	Supply, and fix PVC pipes for road crossing/ PCC floor for cables depth of pipe laying 600mm , including excavation of trenches, back filling and consolidating trenches and providing & fixing cable marker as per standard specification.				
a)	100 mm dia PVC pipe at 800 mm depth	RM	75	561.00	42,075.00
<b>TOTAL SECTION-2 (SCHEDULE-B)</b>					<b>1,90,037.00</b>
<b>TOTAL OF SECTION- 1 &amp; 2</b>					<b>4,19,095.00</b>

**PROJECT:- K.V.SHRAWASTI-STAFF QUARTER-TYPE-III**

S.NO.	DESCRIPTION	UNIT	Type-iii (4Nos.)	RATE	AMOUNT
	<b>SECTION- 2: SCHEDULE-A POINT WIRING</b>				
1.0	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.				
	GROUP-B (Guard Room / Canteen / ESS / Pump room)	Point	88	585.00	51,480.00
2.0	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	10	770.00	7,700.00
3.0	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	300	162.00	48,600.00
4.0	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 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	150	275.00	41,250.00
5.0	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				
a)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Meter	320	131.00	41,920.00
b)	2 X 10 sq. mm + 1 X 10 sq. mm earth wire	Meter	75	327.00	24,525.00
c)	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	Meter	40	210.00	8,400.00
6.0	Supplying and drawing following pair, 0.5 mm dia FRLS PVC insulated copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a)	2 Pair	Meter	80	18.00	1,440.00

S.NO.	DESCRIPTION	UNIT	Type-iii (4Nos.)	RATE	AMOUNT
7.0	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.(for Telephone & P.A. System)				
a)	20 mm.	Meter	40	53.00	2,120.00
b)	25 mm.	Meter	40	65.00	2,600.00
c)	32 mm.	Meter	10	85.00	850.00
d)	40 mm.	Meter	10	110.00	1,100.00
8.0	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a)	Telephone socket outlet.	Each	4	95.00	380.00
9.0	Providing and fixing circular / Hexagonal cast iron or M.S Sheet Box for ceiling fan clamp of internal dia 140 mm , 73 mm height top lid of 1.5 mm thick M.S Sheet with its top surface hacked for proper bonding , top lid shall be screwed into the cast iron / M.S sheet box by means of 3.3 mm dia round headed screws , one lock at the corners clamp shall be made of 12 mm dia M.S bar bent to shape as per standard drawing	Each	16	138.00	2,208.00
10.0	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	16	284.00	4,544.00
11.0	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
a)	1 or 2 Module (75mm x 75mm)	Each	4	166.00	664.00
12.0	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 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings).	Each	12	303.00	3,636.00
13.0	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 15/16 & 5/6 amps modular socket outlet and 15/16 amps modular switch, connection, painting etc. as required.	Each	24	395.00	9,480.00
14.0	Supplying and fixing brass batten/angle holder including connection etc as required.	Each	16	74.00	1,184.00



S.NO.	DESCRIPTION	UNIT	Type-iii (4Nos.)	RATE	AMOUNT
15.0	Supplying and fixing call bell/ buzzer suitable for D.C./A.C. single phase, 230 volts, complete as required.	Each	4	61.00	244.00
16.0	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	65	91.00	5,915.00
17.0	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 / Chandelier light fixture.	Each	16	122.00	1,952.00
18.0	Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required.	Each	12	204.00	2,448.00
19.0	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	12	90.00	1,080.00
20.0	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
a)	2+12 way Double door	Each	4	1,344.00	5,376.00
21.0	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	Single Pole	Each	36	169.00	6,084.00
22.0	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	12	7.00	84.00
23.0	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	63 amps	Each	4	2,237.00	8,948.00

S.NO.	DESCRIPTION	UNIT	Type-iii (4Nos.)	RATE	AMOUNT
24.0	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	1	3,926.00	3,926.00
25.0	Providing and fixing 6 SWG GI wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring /cable as required.	RM	20	23.00	460.00
<b>TOTAL SECTION-1 (SCHEDULE-A)</b>					<b>2,90,598.00</b>
<b>SECTION- 2: SCHEDULE-B</b>					
26.0	Supply and fixing of the following Telephone Tag Block made out of M.S sheets of 18 SWG thickness properly welded complete with all accessories such as Tag block, connector (KRONE make), mounting strips, tapped holes, fixing bolts, approved shad of paint after primer as per specifications.				
a)	10 Pair	Nos.	1	1,601.00	1,601.00
27.0	<b>TELEPHONE CABLES</b>				
27.1	Supplying, wiring and connecting following pairs 0.6 mm dia twin core tinned copper conductor PVC insulated and sheathed Unarmoured telephone cables in existing pipes.				
a)	10 pair cable	RM	10	78.00	780.00
28.0	Same as 27.1 but 10 pair telephone cable of jelly filled Armored cable. in existing pipe.	RM	50	140.00	7,000.00
29.0	Supply of the following luminaires comprising of basic channel, holder, Electronic Ballast / Low Loss Copper Ballast (as mentioned in BOQ) starter, condenser, control gear box complete with decorative attachments, lamps etc. as per specification and as per catalogue number giving below				
a(i)	18W LED Wall mounted LED light fixture .Havells Cat No. LHEXBTPP7UN1W018(4ft) or equivalent.	Nos	21	<b>1,325.00</b>	27,825.00
a(ii)	9W LED Wall mounted LED light fixture .Havells Cat No. LHEXBTPP7UN1W009 (2ft)or equivalent.	Nos	4	<b>880.00</b>	3,520.00
b)	Wall bracket LED Lumeno 10W E27 WW Ball Lamp.Havells cat.No.LHLDEBHEMD8X010 or equivalent.	Nos	16	<b>529.00</b>	8,464.00
c)	Decorative surface 12W LED Down light fixture HPL Cat No. HLPLEDSM12(OW)(Round shape) or equivalent.	Nos	20	<b>1,414.00</b>	28,280.00

S.NO.	DESCRIPTION	UNIT	Type-iii (4Nos.)	RATE	AMOUNT
d)	10Watt LED Bulk head light fixture Philips Cat No WT202W P LED 6S CW PSU S1 PC or equivalent	Nos.	4	<b>1,782.00</b>	7,128.00
30.0	<b>SUPPLY OF CEILING/ PROPELLER TYPE EXHAUST FANS (WITH GRAVITY LOUVERS) / CABIN FAN.</b>				
a)	1200 mm sweep Ceiling fan.	Nos	16	<b>2,293.00</b>	36,688.00
b)	300 mm dia 900 RPM exhaust fan.	Nos	12	<b>3,460.00</b>	41,520.00
31.0	Supply, and fix PVC pipes for road crossing/ PCC floor for cables depth of pipe laying 600mm , including excavation of trenches, back filling and consolidating trenches and providing & fixing cable marker as per standard specification.				
a)	100 mm dia PVC pipe at 800 mm depth	RM	40	561.00	22,440.00
<b>TOTAL SECTION-2(SCHEDULE-B)</b>					<b>1,85,246.00</b>
<b>TOTAL OF SECTION- 1 &amp; 2</b>					<b>4,75,844.00</b>

**PROJECT:- K.V.SHRAWASTI- STAFF QUARTER TYPE-V**

S.NO.	DESCRIPTION	UNIT	Type-v	TOTAL QTY.	RATE	AMOUNT
	<b>SECTION- 2: SCHEDULE-A POINT WIRING</b>					
1.0	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.					
a)	GROUP-B (Guard Room / Canteen / ESS / Pump room)	Point	33	33	585.00	19,305.00
2.0	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	80	80	162.00	12,960.00
3.0	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 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	20	20	275.00	5,500.00
4.0	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					
a)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Meter	100	100	131.00	13,100.00
b)	2 X 10 sq. mm + 1 X 10 sq. mm earth wire	Meter	15	15	327.00	4,905.00
c)	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	Meter	20	20	210.00	4,200.00
5.0	Supplying and drawing following pair, 0.5 mm dia FRLS PVC insulated copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.					
a)	2 Pair	Meter	80.00	80	18.00	1,440.00
6.0	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.(for Telephone & P.A. System)					
a)	20 mm.	Meter	10	10	53.00	530.00
b)	25 mm.	Meter	10	10	65.00	650.00
c)	32 mm.	Meter	5	5	85.00	425.00
d)	40 mm.	Meter	5	5	110.00	550.00

S.NO.	DESCRIPTION	UNIT	Type-v	TOTAL QTY.	RATE	AMOUNT
7.0	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
a)	Telephone socket outlet.	Each	1	1	95.00	95.00
8.0	Providing and fixing circular / Hexagonal cast iron or M.S Sheet Box for ceiling fan clamp of internal dia 140 mm , 73 mm height top lid of 1.5 mm thick M.S Sheet with its top surface hacked for proper bonding , top lid shall be screwed into the cast iron / M.S sheet box by means of 3.3 mm dia round headed screws , one lock at the corners clamp shall be made of 12 mm dia M.S bar bent to shape as per standard drawing	Each	4	4	138.00	552.00
9.0	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	4	4	284.00	1,136.00
10.0	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.					
a)	1 or 2 Module (75mm x 75mm)	Each	1	1	166.00	166.00
11.0	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 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings).	Each	3	3	303.00	909.00
12.0	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 15/16 & 5/6 amps modular socket outlet and 15/16 amps modular switch, connection, painting etc. as required.	Each	6	6	395.00	2,370.00
13.0	Supplying and fixing brass batten/angle holder including connection etc as required.	Each	5	5	74.00	370.00
14.0	Supplying and fixing call bell/ buzzer suitable for D.C./A.C. single phase, 230 volts, complete as required.	Each	1	1	61.00	61.00
15.0	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	25	25	91.00	2,275.00
16.0	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 / Chandelier light fixture.	Each	4	4	122.00	488.00

S.NO.	DESCRIPTION	UNIT	Type-v	TOTAL QTY.	RATE	AMOUNT
17.0	Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required.	Each	3	3	204.00	612.00
18.0	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	3	3	90.00	270.00
19.0	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)					
a)	2+12 way Double door	Each	1	1	1,344.00	1,344.00
20.0	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a)	Single Pole	Each	10	10	169.00	1,690.00
21.0	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	2	2	7.00	14.00
22.0	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
a)	63 amps	Each	1	1	2,237.00	2,237.00
23.0	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	1	1	3,926.00	3,926.00
24.0	Providing and fixing 6 SWG GI wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring /cable as required.	RM	20	20	23.00	460.00
<b>TOTAL SECTION-1 (SCHEDULE-A)</b>						<b>82,540.00</b>
<b>SECTION- 2: SCHEDULE-B</b>						
25.0	Supply of the following luminaires comprising of basic channel, holder, Electronic Ballast / Low Loss Copper Ballast (as mentioned in BOQ) starter, condenser, control gear box complete with decorative attachments, lamps etc. as per specification and as per catalogue number giving below					
a(i)	18W LED Wall mounted LED light fixture .Havells Cat No. LHXBTPP7UN1W018(4ft) or equivalent.	Nos	7	7	1,325.00	9,275.00

S.NO.	DESCRIPTION	UNIT	Type-v	TOTAL QTY.	RATE	AMOUNT
a(ii)	9W LED Wall mounted LED light fixture .Havells Cat No. LHEXBTPP7UN1W009 (2ft)or equivalent.	Nos	2	2	<b>880.00</b>	1,760.00
b)	Wall bracket LED Lumeno 10W E27 WW Ball Lamp.Havells cat.No.LHLDEBHEMD8X010 or equivalent.	Nos	5	5	<b>529.00</b>	2,645.00
c)	Decorative surface 12W LED Down light fixture HPL Cat No. HLPLEDSM12(OW)(Round shape) or equivalent.	Nos	9	9	<b>1,414.00</b>	12,726.00
d)	10Watt LED Bulk head light fixture Philips Cat No WT202W P LED 6S CW PSU S1 PC or equivalent	Nos.	2	2	<b>1,782.00</b>	3,564.00
42.0	<b>SUPPLY OF CEILING/ PROPELLER TYPE EXHAUST FANS (WITH GRAVITY LOUVERS) / CABIN FAN.</b>					
a)	1200 mm sweep Ceiling fan.	Nos	4	4	<b>2,293.00</b>	9,172.00
b)	300 mm dia 900 RPM exhaust fan.	Nos	3	3	<b>3,460.00</b>	10,380.00
26.0	Supply, and fix PVC pipes for road crossing/ PCC floor for cables depth of pipe laying 600mm , including excavation of trenches, back filling and consolidating trenches and providing & fixing cable marker as per standard specification.					
a)	50/40 mm dia PVC pipe at 600 mm depth	RM	40	40	130.00	5,200.00
<b>TOTAL SECTION-2 (SCHEDULE-B)</b>						<b>54,722.00</b>
<b>TOTAL OF SECTION- 1 &amp; 2</b>						<b>1,37,262.00</b>

NAME OF WORK: Construction of Kendriya Vidhyalaya at SHRAWASTI					
ESTIMATE FOR ROAD WORK					
S. No.	DESCRIPTION	UNIT	RATE	Total Quantity	Amount (Rs.)
1.0	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	All kind of Soil	cum	155.6	391.00	60,839.60
2.0	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	Sqm	81.29	1,953.00	1,58,759.37
3.0	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	cum	10.15	391.00	3,968.65
4.0	Supplying and stacking at site.				
	90 mm to 45 mm size stone aggregate	cum	1310.45	195.00	2,55,537.75
	63 mm to 45 mm size stone aggregate	cum	1348.20	195.00	2,62,899.00
	53 mm to 22.4 mm size stone aggregate	cum	1354.00	98.00	1,32,692.00
	Stone screening 13.2 mm nominal size (Type A)	cum	1558.15	61.50	95,826.23
	Stone screening 11.2 mm nominal size (Type B)	cum	1471.00	41.00	60,311.00
	Moorum	cum	646.35	41.00	26,500.35
5.0	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	425.05	488.00	2,07,424.40
6.0	Scarifying metalled (water-bound) road surface including disposal of rubbish, lead upto 50 m and consolidation of the aggregate received from scarifying with power road roller of 8 to 10 tonne capacity.	Sqm	13.75	1,953.00	26,853.75
7.0	Construction of granular sub-base by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge				
	With material conforming to Grade-II (size range 53 mm to 0.075 mm ) having CBR Value-25	cum	2124.85	391.00	8,30,816.35
8.0	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 fine sand etc. all complete as per the direction of Engineer-in-charge	sqm	602.20	150.00	90,330.00



ESTIMATE FOR ROAD WORK					
S. No.	DESCRIPTION	UNIT	RATE	Total Quantity	Amount (Rs.)
9.0	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	5295.90	28.00	1,48,285.20
10.0	Providing and laying Non Pressure NP-4 class (Heavy duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete				
	450 mm dia. R.C.C. pipe	Mtr	2195.75	50.00	1,09,787.50
11.0	Surface dressing on new surface in two coats with bitumen of grade VG -10 of approved quality using 1.8 kg of bitumen per sqm with 1.5 cum of stone chippings 13.2 mm nominal size per 100 sqm of road surface for first coat and 1.1 kg. of bitumen per sqm with 1.00 cu. metre of stone chippings 11.2 mm nominal size per 100 sqm of road surface for second coat, including consolidation of each coat separately with road roller of 6 to 8 tonne capacity etc. complete.	Sqm	260.20	2,336.00	6,07,827.20
12.0	Providing and applying tack coat using hot straight run bitumen of grade VG - 10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications :				
	On W.B.M. @ 0.75 Kg / sqm	sqm	53.75	2,336.00	1,25,560.00
13.0	Providing and laying Bitumen Penetration Macadam with hard stone aggregate of quality, size and grading as specified, with bitumen of suitable penetration grade, including required key aggregate as specified, spreading coarse aggregate with the help of self propelled/ tipper tail mounted aggregate spreader and applying bitumen by a pressure distributor and then spreading key aggregate with the help of aggregate spreader complete, including consolidation with road roller of minimum 8 to 10 tonne capacity to achieve specified values of compaction and surface				
	For 50mm compacted thickness using coarse aggregate of size 50-20 mm graded @ 0.60 cum per 10 sqm key aggregate of size 12.5 mm graded @ 0.15 cum per 10 sqm. With paving asphalt grade VG - 10 @ 50 ka/ 10 sam.	sqm	455.85	2,336.00	10,64,865.60
<b>TOTAL OF ROAD WORK</b>					<b>42,69,083.95</b>

**Name of Work: Construction of Kendriya Vidyalaya at SHRAWASTI  
ESTIMATE FOR SEWERAGE NETWORK**

S. No.	DESCRIPTION	UNIT	RATE	Total Quantity	Amount (Rs.)
2.1	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 :				
	200 mm diameter	metre	462.15	309.08	1,42,843.00
	250 mm diameter	metre	696.50	73.92	51,485.00
2.2	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 :				
	200 mm diameter	metre	536.55	309.08	1,65,839.00
	250 mm diameter	metre	624.60	73.92	46,170.00
2.3	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 :				
	150 x 100 mm size P type				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1,594.35	10.00	15,944.00
	180x150 mm size P type				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1,678.85	10.00	16,789.00
2.4	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				
	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	8,738.55	29.00	2,53,418.00
2.5	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	mtr	4,842.40	1.92	9,274.00
2.6	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				
	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	16,467.90	-	-
2.7	Extra depth for circular type manhole 1.22 m internal dia (at bottom) beyond 1.68 m to 2.29 m :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	meter	6,270.70	-	-

S. No.	DESCRIPTION	UNIT	RATE	Total Quantity	Amount (Rs.)
2.8	Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :				
	2.30 m deep with SFRC Cover and frame (heavy duty HD- 20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	34,976.25	-	-
2.9	Extra depth for circular type manhole 1.52 m internal dia (at bottom) beyond 2.30 m :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Mtr	14,842.95	-	-
2.8	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	311.60	232.00	72,291.00
2.9	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :				
	All kinds of soil				
	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	meter	208.30	383.00	79,780.00
2.10	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).	meter	283.29	191.50	54,250.00
2.11	12 mm cement plaster finished with a floating coat of neat cement of mix:				
	1:4 (1 cement: 4 coarse sand)	sqm	172.30	167.19	28,806.00
2.12	Providing sand cast iron drop connection externally for 60 cm drop from branch sewer line to main sewer manhole including inspection and cleaning eye with chain and lid, sand cast iron drop pipe and bend encased allround with cement concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) with all centering and shuttering required, cutting holes in walls and making good with brick work in cement mortar 1:4 (1 cement : 4 coarse sand) plastered with cement mortar 1:3 (1 cement : 3 coarse sand) on inside of the manhole wall, lead caulked joints between sand cast iron pipes and fittings, stiff cement mortar 1:1 (1 cement : 1 fine sand) joints between sand cast iron tee and S.W. pipe, making required channels complete as per standard design and specifications :				
	150 mm dia sand cast iron drop connection	each	8,544.30	4.00	34,177.00
2.13	Extra for depths beyond 60cm of sand cast iron drop connection complete:				
	For 150mm dia sand cast iron drop connection	meter	2,508.70	1.60	4,014.00

S. No.	DESCRIPTION	UNIT	RATE	Total Quantity	Amount (Rs.)
2.14	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), 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 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :				
	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	4,692.05	6.00	28,152.00
<b>TOTAL OF SEWORAGE</b>					<b>10,03,232.00</b>

<b>PROJECT: CONSTRUCTION OF KENDRIYA VIDHYALAYA AT SHRAWASTI</b>					
<b>STORM WATER DRAINAGE</b>					
<b>S. No.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>RATE</b>	<b>Total Quantity</b>	<b>Amount (Rs.)</b>
<b>1.1</b>	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	All kinds of soil	cum	157.50	148.91	23,453.39
<b>1.2</b>	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				
	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	4,301.15	27.11	1,16,595.57
<b>1.3</b>	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	4,677.25	99.61	4,65,893.39
<b>1.4</b>	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	5,466.30	43.35	2,36,970.66
<b>1.5</b>	Centering and shuttering including strutting, propping etc. and removal				
	Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	sqm	360.80	130.38	47,040.38
	Suspended floors, roofs, landings, balconies and access platform	sqm	401.65	3.30	1,325.45
<b>1.6</b>	12 mm cement plaster finished with a floating coat of neat cement of mix :				
	1:4 (1 cement: 4 fine sand)	sqm	203.25	844.91	1,71,727.06
<b>1.7</b>	6 mm cement plaster of mix :				
	1:3 (1 cement : 3 fine sand)	sqm	134.70	6.60	889.02
<b>1.8</b>	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge				
	All works upto plinth level	cum	6,296.15	5.39	33,936.25
<b>1.9</b>	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	Thermo-Mechanically Treated bars	Kg	68.10	808.50	55,058.85
<b>1.10</b>	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.				
	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	90.10	100.00	9,010.00

<b>STORM WATER DRAINAGE</b>					
<b>1.11</b>	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	960.20	501.75	4,81,780.35
<b>TOTAL</b>					<b>16,43,680.37</b>

Name of Work: CONSTRUCTION OF KENDRIYA VIDHYALAYA AT SAMBALPUR					
ESTIMATE - UNDER GROUND WATER TANK					
S. No.	Item	Unit	Rate	Qty-U.G. Tank	Amount
<b>SCHEDULE-A</b>					
1.0	<b>EARTH WORK</b>				
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	All kind of Soil	cum	155.60	198.76	30,927.06
1.2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	112.40	68.07	7,650.67
1.3	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.				
	All kinds of soil	cum	46.25	91.64	4,238.17
<b>Summary of Earth work</b>					<b>42,815.90</b>
2.0	<b>CONCRETE WORK</b>				
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				
2.1.1	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size)	cum	4,672.50	6.65	31,085.21
<b>Summary of Concrete work</b>					<b>31,085.21</b>
3.0	<b>REINFORCED CEMENT CONCRETE</b>				
3.1	Centering & shuttering including strutting, propping etc. and removal of form work for:				
3.1.1	Foundations, footings, bases of columns etc. for mass concrete.	sqm	196.45	19.93	3,914.86
3.1.2	Suspended floors, roofs, landings, balconies and access platform.	sqm	401.65	39.36	15,808.94
3.1.3	Walls (any thickness) including attached pilasters, buttersesses, plinth and string courses etc.	sqm	360.80	207.70	74,938.16
3.2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
3.2.1	Thermo-Mechanically Treated bars.	kilogram	68.10	6414.49	4,36,826.85
3.3	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.				
3.3.1	All works upto plinth level	cum	6,296.15	42.76	2,69,243.99
<b>Summary of Reinforced Cement Concrete</b>					<b>8,00,732.81</b>
6.0	<b>STEEL WORK</b>				
6.1	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.				
	In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works.	kilogram	90.10	21.60	1,946.16
<b>Summary of Steel work</b>					<b>1,946.16</b>

<b>ESTIMATE - UNDER GROUND WATER TANK</b>					
<b>S. No.</b>	<b>Item</b>	<b>Unit</b>	<b>Rate</b>	<b>Qty-U.G. Tank</b>	<b>Amount</b>
9.0	<b>FINISHING</b>				
9.1	6mm cement plaster 1:3 (1 cement : 3 fine sand) on ceiling / R.C.C. Beams etc.	sqm	134.70	205.01	27,615.18
9.2	Neat cement punning.	sqm	41.40	205.01	8,487.52
9.3	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	50.65	15.00	759.75
	<b>Summary of Finishing</b>				<b>36,862.45</b>
11.0	<b>MISCELLANEOUS WORK</b>				
11.1	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	311.60	24.00	7,478.40
11.2	Supplying and fixing C.I. cover without frame for manholes : 455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	Each	1,222.15	2.00	2,444.30
11.3	Providing and fixing soil, waste and vent pipes : Centrifugally cast (spun) iron S&S pipe as per IS:3989 100 mm dia.	metre	917.75	1.00	917.75
	<b>Summary of Miscellaneous works</b>				<b>10,840.45</b>
	<b>Total of Schedule-A items</b>				<b>9,24,282.97</b>
12.0	<b>SCHEDULE-B</b>				
12.1	Extra for providing and mixing plasticizer material in cement concrete work in doses by weight of cement as per manufacturer's specification.	kilogram	54.00	130.00	7,020.00
12.2	Supplying & Installation of approved Make required capacity three phase, 50 Hz,240V, Centrifugal Mono-block pump, with Starter , connections, base channel foundation etc. as required as per specifications but excluding Pipe and connection cable. 3.0 H.P. Head Mt 8-18, Discharge LPM 850-405 (2 Nos - 1 working + 1 standby) for water supply	Each	28,750.00	2.00	57,500.00
	<b>Summary of Schedule-B Items</b>				<b>64,520.00</b>
	<b>SUMMARY</b>				
	<b>TOTAL AMOUNT OF DSR ITEM</b>				<b>9,24,282.97</b>
	<b>TOTAL AMOUNT OF NON - DSR ITEMS</b>				<b>64,520.00</b>
	<b>TOTAL AMOUNT</b>				<b>9,88,802.97</b>



<b>NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDHYALAYA AT SHRAWASTI</b>					
<b>ABSTRACT OF COST</b>					
<b>SITE DRESSING WORK</b>					
Total Area of plot = 31525.01 Sqm Plinth Area of All the Buildings = 2909.44 Sqm					
<b>Area of plot to be filled deducting plinth area of buildings = 28615.57</b>					
<b>Average filling on plot = 0.45 Mtr</b>					
<b>S.No.</b>	<b>Item</b>	<b>Unit</b>	<b>Rate (Per Unit)</b>	<b>Quantity</b>	<b>Amount (Rs.)</b>
<b>SECTION A - EARTHWORK</b>					
1.2	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead upto 50 m and lift upto 1.5 m :	cum	383.10	1,716.93	6,57,757.49
1.3	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.				
	All kinds of soil	100sqm	1,245.75	315.25	3,92,722.69
Total of items					<b>10,50,480.18</b>
GRAND TOTAL =					<b>10,50,480.00</b>

**PROJECT:- K.V.SHRAWASTI- External Outdoor lighting /Guard room/Panel room/Canteen& Pump room**

S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
<b>SECTION- 2: SCHEDULE-A</b>					
<b>POINT WIRING</b>					
1.0	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.				
a)	GROUP-B (Guard Room / Panel Room/Canteen & Pump room)	Point	19	585.00	11,115.00
2.0	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	75	162.00	12,150.00
3.0	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 Nos 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Meter	40	275.00	11,000.00
4.0	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				
a)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Meter	32	131.00	4,192.00
b)	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	Meter	16	210.00	3,360.00
5.0	Supplying and drawing following pair, 0.5 mm dia FRLS PVC insulated copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a)	2 Pair	Meter	20	18.00	360.00
6.0	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.(for Telephone System)				
a)	20 mm.	Meter	10	53.00	530.00
b)	25 mm.	Meter	10	65.00	650.00
c)	32 mm.	Meter	10	85.00	850.00
d)	40 mm.	Meter	10	110.00	1,100.00
7.0	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				

S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
a)	Telephone socket outlet.	Each	1	95.00	95.00
8.0	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
a)	1 or 2 Module (75mm x 75mm)	Each	1	166.00	166.00
9.0	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 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required. (For light plugs to be used in non residential buildings).	Each	2	303.00	606.00
10.0	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 15/16 & 5/6 amps modular socket outlet and 15/16 amps modular switch, connection, painting etc. as required.	Each	5	395.00	1,975.00
11.0	Supplying and fixing brass batten/angle holder including connection etc as required.	Each	3	74.00	222.00
12.0	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	12	91.00	1,092.00
13.0	Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required.	Each	5	204.00	1,020.00
14.0	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	5	90.00	450.00
15.0	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
a)	2+4 way Double door	Each	1	923.00	923.00
b)	2+6 way Double door	Each	1	1,041.00	1,041.00
16.0	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	Single Pole	Each	10	169.00	1,690.00
17.0	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				

S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
a)	25 amps	Each	1	1,645.00	1,645.00
b)	40 amps	Each	1	1,714.00	1,714.00
18.0	Laying and 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.				
a)	Upto 35 sq. mm	RM	45	16.00	720.00
b)	Above 35 sq. mm and upto 95 sq.mm	RM	40	25.00	1,000.00
19.0	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.				
a)	Upto 35 sq. mm	RM	721	195.00	1,40,595.00
b)	Above 35 sq. mm and upto 95 sq. mm	RM	160	202.00	32,320.00
20.0	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.				
a)	Upto 35 sq. mm	RM	796	133.00	1,05,868.00
21.0	<b>CABLE END TERMINATIONS;</b>				
21.1	Supplying and making indoor end termination with brass compression gland and aluminium / Copper lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
<b>A)</b>	<b>ALUMINIUM CABLE (ARMOURED)</b>				
a)	3.5 core 70 sq.mm XLPE	Nos	6	382.00	2,292.00
b)	4 core 25 sq.mm XLPE	Nos	2	248.00	496.00
c)	4 core 16 sq.mm XLPE	Nos	4	245.00	980.00
d)	4 core 6/10 sq.mm XLPE	Nos	2	193.00	386.00
e)	2 core 10 sq.mm Alu. Armd Cable	Nos	26	148.00	3,848.00
f)	2 core 6/4 sq.mm Alu. Armd Cable	Nos	60	147.00	8,820.00
22.0	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 ( Exrenal lighting/WPP)	Set	6	3,926.00	23,556.00

S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
23.0	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 2.7metre long etc. with charcoal/ coke and salt as required. (for MP PANEL, CCP,SCHOOL MLP & 82.5KVA DG SET )	Set	6	4,490.00	26,940.00
24.0	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and Providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7metre long etc. with charcoal/ coke and salt as required. (for 82.5KVA DG Neutral & EPABX)	Set	3	9,292.00	27,876.00
25.0	Providing & fixing 25mm x 5mm Copper strip on surface or in recess for connection etc as required.	RM	40	856.00	34,240.00
26.0	Providing & fixing 25mm x 5mm G.I strip on surface or in recess for connection etc as required.	RM	85	142.00	12,070.00
27.0	Providing and fixing 6 SWG GI wire on surface or in recess for loop earthing along with existing surface / recessed conduit / submain wiring /cable as required.	RM	1382	23.00	31,786.00
28	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required	RM	30	86.00	2,580.00
<b>OUTDOOR LIGHTING</b>					
29.0	<b>WIRING FOR LUMINAIRES :</b> <b>WIRING FOR LUMINAIRES :</b> Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
a)	With 3 x 2.5 sq. mm FR PVC insulated copper conductor				
i)	For 7 mtr. Single arm Pole ( 1No. x 7Mtr.= 7Mtr.) (16set)	RM	112	75.00	8,400.00
ii)	For Flood light ( 1No. x 25Mtr.= 25Mtr.) (4sets)	RM	100	75.00	7,500.00
b)	With 3 x 1.5 sq. mm FRLS PVC insulated copper conductor				
i)	For 3.0 mtr. Gate Light( 1No. x 3Mtr.= 3Mtr.) (6sets)	RM	18	50.00	900.00
ii)	For 4.0 mtr. Pole Light( 1No. x 4Mtr.= 4Mtr.) (14sets)	RM	56	50.00	2,800.00
30.0	Providing, laying and fixing following dia RCC pipe NP2 class (light duty) in ground complete with RCC collars, jointing with cement mortar 1:2 (1 cement : 2 fine sand) including trenching (75 cm deep) and refilling etc as required.				
a)	150 mm dia	RM	30	384.00	11,520.00

S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>TOTAL SECTION-1 (SCHEDULE-A)</b>				<b>5,45,439.00</b>
	<b>SECTION- 2: SCHEDULE-B</b>				
31.0	Supply and fixing of the following Telephone Tag Block made out of M.S sheets of 18 SWG thickness properly welded complete with all accessories such as Tag block, connector (KRONE make), mounting strips, tapped holes, fixing bolts, approved shad of paint after primer as per specifications.				
a)	10 Pair	Nos.	1	1,601.00	1,601.00
32.0	<b>TELEPHONE CABLES</b>				
32.1	Supplying, wiring and connecting following pairs 0.6 mm dia twin core tinned copper conductor PVC insulated and sheathed Unarmoured telephone cables in existing pipes.				
a)	10 pair cable	RM	50	78.00	3,900.00
33.0	Same as 32.1 but 10 pair telephone cable of jelly filled Armored cable. in existing pipe.	RM	50	140.00	7,000.00
34.0	Supply of the following luminaires comprising of basic channel, holder, Electronic Ballast / Low Loss Copper Ballast (as mentioned in BOQ) starter, condenser, control gear box complete with decorative attachments, lamps etc. as per specification and as per catalogue number giving below				
a)	18W LED Wall mounted LED light fixture .Havells Cat No. LHEXBTPP7UN1W018(4ft) or equivalent.	Nos	9	<b>1,325.00</b>	11,925.00
b)	Wall bracket LED Lumeno 10W E27 WW Ball Lamp.Havells cat.No.LHLDEBHEMD8X010 or equivalent.	Nos	3	<b>529.00</b>	1,587.00
35.0	<b>SUPPLY OF CEILING/ PROPELLER TYPE EXHAUST FANS (WITH GRAVITY LOUVERS) / CABIN FAN.</b>				
a)	380 mm dia 900 RPM exhaust fan.	Nos	3	<b>4,103.00</b>	12,309.00
b)	300 mm dia 900 RPM exhaust fan.	Nos	2	<b>3,460.00</b>	6,920.00
c)	400 mm sweep wall bracket fan.	Nos	2	<b>2,570.00</b>	5,140.00
36.0	<b>L.T. PANELS (SUPPLY AND INSTALLATION)</b>				
36.1.1	<b>L.T. PANELS :</b>				

S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
36.1.1.1	Supply and erection of all interconnections, small wiring, testing & commissioning of the following cubical type panels made of 14 guage CRCA structure, base channel, complete with, moulded case circuit breakers, meters, indicating lamps, current transformer etc. Complete in all respects, insulated bus bars with heat shrinkable PVC sleeve in suitable bus chambers, interconnection, small wiring, name plate, danger plate, earth bus etc. & comprising of compartments with hinged door for each feeder & its accessories, cable alley with hinged doors, bus chamber with bolted door etc. The panel being of dust & vermin proof construction with rubber gasket attractively powder coated with Siemens grey shade and having orange peel finish etc. The panel shall be free standing type/ wall mounted type as per relevant drawing and comprising with the following. Degree of protection IP: 54				
<b>Note:-</b>	<ol style="list-style-type: none"> <li>1) All MCCBS shall be with Extended type Front door operating handle phase Spreaders &amp; phase Barriers</li> <li>2) CTs burden shall be 15VA &amp; accuracy class 1.0</li> <li>3) CTs shall be "CAST RESIN" type .</li> <li>4) All MCCBs upto 250A shall be with thermal magnetic Releases &amp; above 250A with microprocessor releases.</li> <li>5) All indication lights shall be LED type.</li> <li>6) All meters shall be "DIGITAL" type.</li> <li>7) Breaking Capacity of all MCCB's are Ics service breaking capacity</li> <li>8) Breaking Capacity of all MCCB's are Ics service breaking capacity</li> <li>8) Degree of Protection for phase shall be IP:52</li> <li>9) Capacitor Banks shall be Heavy Duty type equal to MPP-H.</li> </ol>				
10)	"ON" indicating lamp shall be provided for all 3 Phase MCCB out going feeders				
11)	Control SP MCB's of 2/4A rating shall be provided for each metering circuit.				
<b>A)</b>	<b>MAIN POWER PANEL (MPP)</b>	Set	1	72,203.00	72,203.00
<b>a)</b>	<b>INCOMING :</b>				
i)	1No.160 TP MCCB(35KA)				
ii)	1No.160 4P ON LOAD CHANGE OVER SWITCH				
<b>b)</b>	<b>BUS BAR (MAIN)</b>				
i)	One Set of 200A TPN Alu. Bus Bar with PVC Sleeve in sealed Bus Chamber				
<b>c)</b>	<b>METERING &amp; INDICATION AND RELAY</b>				
i)	1No. set of R/ Y/ B phase indication lamp with control MCB's.				
ii)	1 No. Digital type multi function Meter EM6436 1.0				
iii)	1 Set. CT's of suitable ratio for Capacitor Control Panel .				
<b>d)</b>	<b>OUTGOING :</b>				

S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
i)	1No. 125A TP MCCB (35KA)				
ii)	1No. 63A TP MCCB (25KA)				
iii)	2Nos. 63A 4P MCB (10KA)				
iv)	1No. 40A 4P MCB (10KA)				
v)	2Nos. 40A DP MCB (10KA)				
vi)	1No. 25A DP MCB (10KA)				
iv)	2Nos ON lamps shall be provided on all outgoing feeders				
e)	1 No. 25 x 6 mm. G.I. Earth Bus across the width of the panel.				
<b>B)</b>	<b>CAPACITOR CONTROL PANEL (CCP) (20 KVAR)</b>	Set	1	89,669.00	89,669.00
<b>a)</b>	<b>INCOMING :-</b>				
i)	1 No.63A TP MCCB (25KA)				
<b>b)</b>	<b>BUS BAR :-</b>				
i)	One set of 150 A TPN Alu. Bus Bar with PVC Sleeve in sealed M.S Painted Bus Chamber.				
<b>c)</b>	<b>METERING, INDICATIONS AND RELAYS :-</b>				
i)	1 No. (0 - 63A) Digital Ammeter with built in selector switch and CT's.				
ii)	1 No. (APFCR) Automatic power factor correction relay with Digital Power Factor Meter.				
iii)	One set of R /Y /B phase indication Lamp.				
<b>d)</b>	<b>OUT GOINGS :-</b>				
i)	1Set of 10KVAR Capacitor bank with 32A TP contactor and 25 A TP MCCB (25KA)				
ii)	1Set of 5 KVAR Capacitor bank with 16A TP contactor and 16A TP MCCB (25KA)				
iii)	1Set of 5KVAR Capacitor bank and 16A TP MCCB (25KA)				
<b>Note</b>	All outgoing feeder shall have ON / OFF lamps, start / stop push buttons, Digital Ammeter with built in sel. Switch and 3CT's				
e)	1 No. 25 x 6 mm. GI. Earth Bus across the width of the panel.				
<b>C)</b>	<b>MAIN LIGHT &amp; POWER PANEL (SCHOOL BUILDING)</b>	Set	1	47,902.00	47,902.00



S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
a)	<b>INCOMING :</b>				
i)	1 No.125A TP MCCB (35kA)				
b)	<b>BUS BAR :</b>				
i)	One set of 200A Alu. Bus Bar with PVC Sleeve in sealed M.S. Painted bus chamber.				
c)	<b>METERING , INDICATIONS AND RELAYS :</b>				
i)	1 set. of R/ Y/ B phase indicating lamp with control MCB's.				
ii)	1 No. (0 - 125A) Digital Ammeter with built-in selector switch and CT's.				
iii)	1 No . (0 - 500 V) Digital Voltmeter with built-in Selector switch & control MCB's.				
d)	<b>OUT GOINGS :</b>				
i)	3 Nos. 63A, 4P MCB (10 kA)				
ii)	7 Nos. 40A, 4P MCB (10 kA)				
e)	1 No. 25 x 6 mm GI Earth Bus across the width of the panel.				
	<b>L.T. CABLES (SUPPLY )</b>				
37.0	<b>L.T. CABLES</b>				
37.1	Supply of the following 1100 Volts Alu/ Cu. Conductor, PVC insulated PVC sheathed, steel armoured/ unarmoured or XLPE cables as per IS-1554/ 7098 Part- I and as per stanard specification				
	<b>A) ALUMINIUM/COPPER CABLE (ARMOURED)</b>				
a)	3.5 core 70 sq.mm AL XLPE	RM	200	396.00	79,200.00
b)	4 core 25 sq. mm. AL XLPE	RM	15	197.00	2,955.00
c)	4 core 16 sq. mm. AL XLPE	RM	90	149.00	13,410.00
d)	4 core 6 sq. mm. AL XLPE	RM	75	104.00	7,800.00
e)	2 core 10 sq.mm Alu. Armd Cable(for External Outdoor cable )	RM	546	99.00	54,054.00
f)	2 core 6 sq.mm Alu. Armd Cable(for External Outdoor cable,Canteen LPDB & Guard room LPDB)	RM	836	79.00	66,044.00
	<b>OUT DOOR LIGHTING</b>				
38.0	<b>POLES :</b>				

S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
39.1	Supplying, Installation , testing and commissioning of outdoor lighting with fabricated pole made of MS pipe ( medium class) complete with base plate, luminaire bracket arm bed concrete foundation in 1:3: 6 ratio (1cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size ) including excavation and refiling , painting of Poles with one coat of primer and two coats of approved synthetics enamel paint etc. as required				
a)	7 mtr.high steel tubular pole with 450 x 450 x 10 mm thick base plate. Outside dia and thickness of sections of the pole shall be at bottom 114.3mm x 5.4mm , middle 88.9mm x 4.85mm & top 76.1mm x 3.25mm.				
i)	Single arm Pole (Apprx. Weight 85kg)	Nos.	11	13,175.00	1,44,925.00
ii)	Double arm Pole (Apprx. Weight 95kg)	Nos.	2	14,319.00	28,638.00
b)	4.0 meter, Mild steel Pole for post top lantern (ISI marked) with 76.1mm O/D and 3.65 mm thickness and with 300 x 300 x6 mm thick base plate.	Nos.	19	6,002.00	1,14,038.00
c)	40 mm dia & 0.6 M long GI pipe for gate light	Nos.	6	250.00	1,500.00
d)	40 mm. dia & 1.8 M long GI pipe bracket for light(minimum medium class, ISI marked)	Nos.	4	750.00	3,000.00
40.0	<b>POLES MOUNTING BOXES :</b> Supply and fixing of Thermoplastic type water proof pole mounting boxes of size 200 x 160 mm x 100 mm , with cover and Gasket with cable entry knock outs, 4 way 20A connectors mounted inside box etc.as per design including mounting arrangements. (Box depth 100mm)	Nos.	42	1,789.00	75,138.00
41.0	<b>LUMINAIRES :</b>				
41.1	Supply , receiving, storing, handling, testing & commissioning of the following outdoor luminaires comprising of control gear box, lamp. Etc. including all fixing and mounting arrangement.				
a)	Philips BRP 409 LED CW 036 MR FG S1 PSU GR /Equal street light with 36W LED.etc. as required.	Nos.	19	10,161.00	1,93,059.00
b)	WIPRO LP02-501-XXX-57-XX Vintage LED Post top 45W LED .(Post top lantern & gate light)	Nos.	25	18,733.00	4,68,325.00
42.0	<b>YLDB ( WEATHER PROOF EXTERNAL LIGHTING DB)</b> Supplying, receiving, storing, handling erecting, testing and commissioning of Outdoor feeder pillar type factory fabricated Double door distribution board 14 guage rust inhibited and backed enamel painted sheet steel and comprising of incoming MCB, outgoing MCBs', bus bar (copper),neutral bus bar , top & bottom detachable conduit entry plates, earthing terminals with bolts, grounding etc. complete as per specifications (Class of Protection IP- 55)	Set	1	44,680.00	44,680.00

S.NO.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
a)	40A 4P MCB with 40A TP Contactor				
b)	Electronic Timer ( for 24 hours)				
c)	Auto/ Manual selector switch				
d)	Push buttons (ON / OFF)				
e)	2 Nos 20 A 4P MCB )10kA)				
f)	8 Nos 16/20A 2P MCB (10kA)				
g)	Internal wiring				
	<b>MISCELLANEOUS ITEMS</b>				
43.0	<b>DANGER BOARD/SHOCK RESTORATION CHART ETC.</b>				
43.1	Supplying and fix standard shock restoration chart in Glass Frame.	Nos.	1	1,000.00	1,000.00
43.2	Supply & fixing of 6 Nos sand buckets with MS stand	Set	1	3,000.00	3,000.00
43.3	Supply & fixing of 440V danger board	Set	2	125.00	250.00
43.4	Supply of First Aid Box	Set	1	1,500.00	1,500.00
44.5	Supply & laying of insulating mats as per IS15652-2006 (1.0 m wide)				
a)	Suitable for 1.1 KV Class-A (2.0 mm thick) insulating mat	RM	6	1,100.00	6,600.00
45.0	Supply, and fix PVC pipes for road crossing/ PCC floor for cables depth of pipe laying 600mm , including excavation of trenches, back filling and consolidating trenches and providing & fixing cable marker as per standard specification.				
a)	50/40 mm dia PVC pipe at 600 mm depth	RM	110	130.00	14,300.00
b)	100 mm dia PVC pipe at 800 mm depth	RM	90	561.00	50,490.00
	<b>TOTAL SECTION-2(SCHEDULE-B)</b>				<b>16,34,062.00</b>
	<b>TOTAL OF SECTION- 1 &amp; 2</b>				<b>21,79,501.00</b>

CONSTRUCTION OF KENDRIYA VIDHYALAYA, SHRAWASTI					
ESTIMATE BOREWELL					
S. No.	DESCRIPTION	UNIT	RATE	Qty-Borewell	Amount
<b>1.00</b>	<b>Section 1 : SCHEDULE-A</b>				
1.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level.				
	All type of soil				
	300 mm dia	Mtr	407.10	100.00	40,710.00
	Rocky strata including Boulders				
	300 mm dia	Mtr	920.00	0.00	-
1.2	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, beyond 90 metre & upto 150 metre depth below ground level.				
	Rocky strata including Boulders				
	300 mm dia	Mtr	988.50	60.00	59,310.00
1.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.				
	200 mm nominal size dia	Mtr	878.60	75.00	65,895.00
1.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
	150mm dia	Mtr	528.95	150.00	79,342.50
1.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	Cum	504.15	4.42	2,226.14
1.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	Cum	910.65	5.00	4,553.25
1.7	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	852.60	7.50	6,394.50
1.8	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	987.85	7.50	7,408.88

<b>ESTIMATE BOREWELL</b>					
<b>S. No.</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>RATE</b>	<b>Qty-Borewell</b>	<b>Amount</b>
1.9	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	677.10	24.00	16,250.40
1.10	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:				
	150 dia	Each	195.15	1.00	195.15
1.11	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.				
	150 dia	Each	1,170.95	1.00	1,170.95
1.12	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).				
	150 dia	Each	242.65	1.00	242.65
	<b>Total Schedule-A</b>				<b>2,83,699.41</b>
<b>2.00</b>	<b>Section 2 : SCHEDULE-B</b>				
2.1	Supply, Installing, Testing and functioning Submersible pump in borewell including the cost of all lead & lifts, tools, plants, machinery, connections, specials etc complete job as directed by Engineer in charge				
	kirloskar make 2HP 3phase 100mm dia bore well Submersible pump	Set	50,000.00	1.00	50,000.00
2.2	Supply, Installing, Testing and functioning of start electrical panel and water proof electrical cable for Submersible pump including the cost of all lead & lifts, tools, plants, machinery, connections, specials etc complete job as directed by Engineer in charge	Set	35,000.00	1.00	35,000.00
	<b>Total Schedule-B</b>				<b>85,000.00</b>
	<b>SUMMARY</b>				
	<b>TOTAL AMOUNT OF SCHEDULE-A ITEMS</b>				<b>2,83,699.41</b>
	<b>TOTAL AMOUNT OF SCHEDULE-B ITEMS</b>				<b>85,000.00</b>
	<b>TOTAL AMOUNT</b>				<b>3,68,699.41</b>

ESTIMATE							
NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDYALAYA AT BHINGA,SHRAWASTI							
ABSTRACT OF SANITARY QUANTITIES							
S. No.	DESCRIPTION	UNIT	RATE	QUANTITY		AMOUNT	
				GUARD HOUSE	CAN & PUMP ROOM	GUARD HOUSE	CAN & PUMP ROOM
<b>SANITARY INSTALLATIONS</b>							
1.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :						
	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	3,392.80	1.00	0.00	3,392.80	-
1.2	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 tap	each	2,331.15	1.00	0.00	2,331.15	-
1.3	Providing and fixing 100 mm sand cast Iron grating for gully trap	each	29.50	1.00	1.00	29.50	29.50
1.4	Providing and fixing in position 25 mm diameter mosquito proof coupling of approved municipal design.	each	38.60	1.00	1.00	38.60	38.60
1.5	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	793.95	1.00	0.00	793.95	-
1.6	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore	each	507.70	2.00	1.00	1,015.40	507.70
1.7	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore	each	459.50	1.00	0.00	459.50	-
1.8	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. 15 mm nominal bore	each	796.70	1.00	1.00	796.70	796.70
1.9	Providing and fixing PTMT Bottle Trap for Wash basin and sink. Bottle trap 38 mm 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 263 gms	each	518.15	1.00	1.00	518.15	518.15
1.10	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.						
1.10.1	15mm dia. nominal outer dia pipe	metre	270.00	2.00	3.00	540.00	810.00

ABSTRACT OF SANITARY QUANTITIES							
S. No.	DESCRIPTION	UNIT	RATE	QUANTITY		AMOUNT	
				GUARD HOUSE	CAN & PUMP ROOM	GUARD HOUSE	CAN & PUMP ROOM
1.10.2	20mm dia. nominal outer dia pipe	metre	296.40	1.50	0.00	444.60	-
1.11	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.						
	External work						
	25mm dia. nominal outer dia pipe	metre	209.50	4.50	4.50	942.75	942.75
1.12	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.						
	25 to 40 mm nominal bore	each	367.75	1.00	1.00	367.75	367.75
	<b>Brass fittings</b>						
1.13.1	Providing and fixing brass stop cock of approved quality						
1.13.2	15 mm nominal bore	each	260.60	1.00	0.00	260.60	-
	20 mm nominal bore	each	344.85	1.00	0.00	344.85	-
1.14	Providing and fixing gun metal gate valve with C.I. wheel of approved quality(screwed end )						
	25 mm nominal bore	each	428.85	1.00	1.00	428.85	428.85
1.15	Providing and fixing gun metal non- return valve of approved quality (screwed end )						
	25 mm nominal bore						
1.15.1	Horizontal	each	411.25	1.00	1.00	411.25	411.25
1.15.2	Vertical	each	446.10	1.00	1.00	446.10	446.10
1.16	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :						
1.16.1	15mm nominal bore	each	360.50	4.00	2.00	1,442.00	721.00
1.16.2	20mm nominal bore	each	383.70	2.00	0.00	767.40	-
1.16.3	25mm nominal bore	each	395.30	1.00	0.00	395.30	-
1.17	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.	per liter	7.25	500.00	500.00	3,625.00	3,625.00
1.18	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	each	228.85	1.00	0.00	228.85	-
	<b>C. I. / DUCTILE IRON Pipes and specials</b>						
2.1	Providing and fixing soil, waste and vent pipes : Centrifugally cast (spun) iron S&S pipe as per IS:3989						
	75 mm dia.	metre	791.30	7.00	1.20	5,539.10	949.56
2.2	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :						
	For 75 mm dia. pipe	each	150.60	3.00	1.00	451.80	150.60

ABSTRACT OF SANITARY QUANTITIES							
S. No.	DESCRIPTION	UNIT	RATE	QUANTITY		AMOUNT	
				GUARD HOUSE	CAN & PUMP ROOM	GUARD HOUSE	CAN & PUMP ROOM
2.3	Providing and fixing plain bend of required degree. Centrifugally cast (spun) iron S&S as per IS:3989 75 mm	each	248.80	2.00	1.00	497.60	248.80
2.4	Providing and fixing heel rest sanitary bend Centrifugally cast (spun) iron S&S as per IS:3989 75 mm dia	each	312.75	2.00	0.00	625.50	-
2.5	Providing and fixing collar: Centrifugally cast (spun) iron S&S as per IS:3989 100 mm	each	318.35	1.00	1.00	318.35	318.35
2.6	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter : 100 mm diametre pipe	each	243.75	1.00	0.00	243.75	-
2.7	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter: 100 mm	each	68.60	1.00	0.00	68.60	-
2.8	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors : 100 mm inlet and 100 mm outlet Centrifugally cast (spun) iron S&S as per IS:3989	each	982.55	1.00	0.00	982.55	-
2.9	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), 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 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design : Inside dimensions 455x610 mm and 45 cm deep for single pipe line : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	4,692.05	1.00	1.00	4,692.05	4,692.05
2.10	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 : 100 x 100 mm size P type With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1,571.25	1.00	1.00	1,571.25	1,571.25
2.11	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 diameter	metre	314.35	1.00	1.00	314.35	314.35



ABSTRACT OF SANITARY QUANTITIES							
S. No.	DESCRIPTION	UNIT	RATE	QUANTITY		AMOUNT	
				GUARD HOUSE	CAN & PUMP ROOM	GUARD HOUSE	CAN & PUMP ROOM
2.12	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 :						
	150 mm diameter S.W. pipe	metre	724.70	1.00	1.00	724.70	724.70
2.13	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 :						
2.13.1	100 mm diameter S.W. pipe	metre	281.65	1.00	1.00	281.65	281.65
2.13.2	150 mm diameter S.W. pipe	metre	456.45	1.00	1.00	456.45	456.45
2.14	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 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides						
	For pipes 100 to 250 mm diameter	each	436.00	1.00	1.00	436.00	436.00
2.15	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality						
	M D						
2.15.1	Square shape 450 mm internal dimensions	each	1,080.10	1.00	1.00	1,080.10	1,080.10
2.15.2	Circular shape 500 mm internal diameter	each	909.25	1.00	1.00	909.25	909.25
2.16	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :						
	All kinds of soil						
	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	Metre	208.30	2.00	2.00	416.60	416.60
2.17	Providing and fixing PTMT grating of approved quality and colour.						
	Circular type						
	125 mm nominal dia with 25 mm waste hole	each	57.35	1.00	1.00	57.35	57.35
	External Water supply work						
	<b>TOTAL FOR SANITARY WORKS</b>					<b>39,688.05</b>	<b>22,250.41</b>

Name of Work: CONSTRUCTION OF KENDRIYA VIDYALAYA AT SHRAWASTI					
Cost of External Water Supply					
S. No.	DESCRIPTION	UNIT	RATE	Quantity	Amount (Rs.)
	<b>SANITARY INSTALLATIONS</b>				
	External Water supply work				
1	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.				
	<b>External work:</b>				
1.1	25 mm dia nominal bore	Mtr.	257.30	265.00	68,184.50
1.2	32 mm dia nominal bore	Mtr.	281.05	105.00	29,510.25
1.3	40 mm dia nominal bore	Mtr.	334.15	325.50	1,08,765.83
2	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 :				
2.1	25 to 40 mm nominal bore	Each	367.75	35.00	12,871.25
3	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
3.1	25 mm nominal bore	each	428.85	25.00	10,721.25
3.2	32 mm nominal bore	each	501.50	5.00	2,507.50
3.3	40mm nominal bore	each	585.50	6.00	3,513.00
4	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :				
4.1	25 mm nominal bore	Each	200.10	100.00	20,010.00
4.2	32mm nominal bore	Each	240.75	20.00	4,815.00
4.3	40 mm nominal bore	Each	316.25	25.00	7,906.25
5	Providing and fixing gun metal non- return valve of approved quality (screwed end) :				
5.1	25 mm nominal bore				
	Horizontal	each	411.25	2.00	822.50
	Vertical	each	446.10	3.00	1,338.30
5.2	32 mm nominal bore				
	Horizontal	each	553.30	2.00	1,106.60
	Vertical	each	634.60	2.00	1,269.20
5.3	40 mm nominal bore				
	Horizontal	each	683.75	5.00	3,418.75
6	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :				
6.1	25 mm diameter pipe	metre	8.75	265.00	2,318.75
6.2	32 mm diameter pipe	metre	10.40	105.00	1,092.00
6.3	40 mm diameter pipe	metre	11.85	325.50	3,857.18
7	Providing and filling sand of grading zone V or coarser grade, allround the G.I. pipes in external work :				
7.1	25 mm diameter pipe	metre	69.05	265.00	18,298.25
7.2	32 mm diameter pipe	metre	70.85	105.00	7,439.25
7.3	40 mm diameter pipe	metre	71.75	325.50	23,354.63
8	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete 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 40mm nominal size ) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	1,101.70	10.00	11,017.00

S. No.	DESCRIPTION	UNIT	RATE	Quantity	Amount (Rs.)
9	Constructing masonry Chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 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 :				
	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	6,431.70	5.00	32,158.50
	<b>TOTAL FOR SANITARY WORKS</b>				<b>3,76,295.73</b>

NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDYALAYA AT BHINGA,SHRAWASTI							
SUMMARY OF CIVIL WORK OF PLAYFIELDS							
S. No.	SECTION NO.	DESCRIPTION	BADMINTON COURT	BASKET BALL COURT	VOLLY BALLCOURT	KHO KHO COURT	TRACK & PLAYFIELD
<b>SCHEDULE-A</b>							
1	Section-I	EARTH WORK	-	17,969.00	11,229.52	23,242.52	4,52,777.90
2	Section-II	CONCRETE WORK	6,959.63	2,62,370.15	1,067.05	640.23	-
3	Section-III	REINFORCED CEMENT CONCRETE	-	10,306.66	10,306.66	10,306.66	10,306.66
4	Section-IV	BRICK WORK	12,001.51	30,003.77	-	-	-
5	Section-V	STEEL WORK	-	10,606.65	-	-	8,990.10
6	Section-VI	FLOORING	-	3,28,606.20	-	-	-
7	Section-VII	FINISHING	14,534.25	33,805.60	106.25	106.25	318.75
8	Section-VIII	MISCELLANEOUS WORK	4,675.55	35,704.20	21,805.92	-	-
		<b>SUB TOTAL</b>	<b>38,170.93</b>	<b>7,29,372.22</b>	<b>44,515.40</b>	<b>34,295.66</b>	<b>4,72,393.41</b>
9	Section-IX	SCHEDULE-B	10,112.00	70,752.00	8,000.00	8,000.00	-
		<b>SUB TOTAL</b>	<b>10,112.00</b>	<b>70,752.00</b>	<b>8,000.00</b>	<b>8,000.00</b>	-
		<b>TOTAL</b>	<b>48,282.93</b>	<b>8,00,124.22</b>	<b>52,515.40</b>	<b>42,295.66</b>	<b>4,72,393.41</b>

NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDYALAYA AT BHINGA,SHRAWASTI														
ABSTRACT OF CIVIL QUANTITIES														
S. No.	Item	Unit	Rate	QUANTITY					AMOUNT					
				Badminton Court	Basketball Court	Volleyball Court	Kho Kho Court	Track & playfield	Badminton Court	Basketball Court	Volleyball Court	Kho Kho Court	Track & playfield	
<b>SCHEDULE-A</b>														
<b>1.0 EARTH WORK</b>														
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.													
	All kinds of soil	cum	157.50	0.00	66.00	24.00	86.00	1677.00	-	10,395.00	3,780.00	13,545.00	2,64,127.50	
1.2	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.													
	All kinds of soil	cum	155.60	0.00	1.00	0.20	0.20	1.00	-	155.60	31.12	31.12	155.60	
1.3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	112.40	0.00	66.00	66.00	86.00	1677.00	-	7,418.40	7,418.40	9,666.40	1,88,494.80	
<b>Summary of Earth work</b>										-	<b>17,969.00</b>	<b>11,229.52</b>	<b>23,242.52</b>	<b>4,52,777.90</b>
<b>2.0 CONCRETE WORK</b>														
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shattering - All work up to plinth level													
2.1.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	4,301.15	1.37	61.00	0.00	0.00	0.00	5,892.58	2,62,370.15	-	-	-	
2.1.2	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	cum	5,335.25	0.20	0.00	0.20	0.12	0.00	1,067.05	-	1,067.05	640.23	-	
<b>Summary of Concrete work</b>										<b>6,959.63</b>	<b>2,62,370.15</b>	<b>1,067.05</b>	<b>640.23</b>	-

S. No.	Item	Unit	Rate	QUANTITY					AMOUNT				
				Badminton Court	Basketball Court	Volleyball Court	Kho Kho Court	Track & playfield	Badminton Court	Basketball Court	Volleyball Court	Kho Kho Court	Track & playfield
<b>3.0</b>	<b>REINFORCED CEMENT CONCRETE</b>												
3.2	Centering & shuttering including strutting, propping etc. and removal of form work for:												
3.2.1	Foundations, footings, bases of columns etc. for mass concrete.	sqm	196.45	0.00	2.28	2.28	2.28	2.28	-	447.91	447.91	447.91	447.91
3.2.4	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	453.35	0.00	2.00	2.00	2.00	2.00	-	906.70	906.70	906.70	906.70
3.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.												
	Thermo-Mechanically Treated bars.	kilogram	68.10	0.00	39.00	39.00	39.00	39.00	-	2,655.90	2,655.90	2,655.90	2,655.90
3.4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.												
	Thermo-Mechanically Treated bars.	kilogram	68.10	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-
3.5	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.												
3.5.1	All works upto plinth level	cum	6,296.15	0.00	1.00	1.00	1.00	1.00	-	6,296.15	6,296.15	6,296.15	6,296.15
3.5.2	All works above plinth level upto floor V level	cum	7,014.55	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-
	<b>Summary of Reinforced Cement Concrete</b>								-	<b>10,306.66</b>	<b>10,306.66</b>	<b>10,306.66</b>	<b>10,306.66</b>
<b>4.0</b>	<b>BRICK WORK</b>												

S. No.	Item	Unit	Rate	QUANTITY					AMOUNT				
				Badminton Court	Basketball Court	Volleyball Court	Kho Kho Court	Track & playfield	Badminton Court	Basketball Court	Volleyball Court	Kho Kho Court	Track & playfield
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:												
	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	4,918.65	2.44	6.10	0.00	0.00	0.00	12,001.51	30,003.77	-	-	-
	<b>Summary of Brick work</b>								<b>12,001.51</b>	<b>30,003.77</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>5.0</b>	<b>STEEL WORK</b>												
5.1	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	K.g	73.95	0.00	143.43	0.00	0.00	121.57	-	10,606.65	-	-	8,990.10
	<b>Summary of Steel work</b>								<b>-</b>	<b>10,606.65</b>	<b>-</b>	<b>-</b>	<b>8,990.10</b>
<b>6.0</b>	<b>FLOORING</b>												
6.1	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 is mixed @ 2 litre per 50kg of cement or as per manufactures specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	sqm	588.90	0.00	558.00	0.00	0.00	0.00	-	3,28,606.20	-	-	-
	<b>Summary of Flooring work</b>								<b>-</b>	<b>3,28,606.20</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>7.0</b>	<b>FINISHING</b>												
7.1	15 mm cement plaster on the rough side of single or half brick wall of mix :												
	1:6 (1 cement : 6 coarse sand)	sqm	183.45	78.00	53.00	0.00	0.00	0.00	14,309.10	9,722.85	-	-	-
7.2	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :												

S. No.	Item	Unit	Rate	QUANTITY					AMOUNT				
				Badminton Court	Basketball Court	Volleyball Court	Kho Kho Court	Track & playfield	Badminton Court	Basketball Court	Volleyball Court	Kho Kho Court	Track & playfield
	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	sqm	106.25	0.00	5.00	1.00	1.00	3.00	-	531.25	106.25	106.25	318.75
7.3	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	89.65	0.00	0.00	0.00	0.00	0.00	-	-	-	-	-
7.4	Neat cement punning.	sqm	41.40	0.00	558.00	0.00	0.00	0.00	-	23,101.20	-	-	-
7.5	Floor painting with floor enamel paint of approved brand and manufacture of required colour to give an even shade :												
	Two or more coats on new work	sqm	75.05	3.00	6.00	0.00	0.00	0.00	225.15	450.30	-	-	-
	<b>Summary of Finishing</b>								<b>14,534.25</b>	<b>33,805.60</b>	<b>106.25</b>	<b>106.25</b>	<b>318.75</b>
	<b>8.0 MISCELLANEOUS WORK</b>												
8.1	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	425.05	11.00	84.00	0.00	0.00	0.00	4,675.55	35,704.20	-	-	-
8.2	Supplying and stacking of good earth at site including royalty and carriage up to 7 km (earth measured in stacks will be reduced by 20% for payment).(Item No.23.2 /P-388)+(Item No.1.1.2 (8-4+9) /P-62)	cum	382.56	0.00	0.00	57.00	0.00	0.00	-	-	21,805.92	-	-
	<b>Summary of Miscellaneous works</b>								<b>4,675.55</b>	<b>35,704.20</b>	<b>21,805.92</b>	<b>-</b>	<b>-</b>
	<b>9.0 SCHEDULE-B</b>												



S. No.	Item	Unit	Rate	QUANTITY					AMOUNT				
				Badminton Court	Basketball Court	Volleyball Court	Kho Kho Court	Track & playfield	Badminton Court	Basketball Court	Volleyball Court	Kho Kho Court	Track & playfield
9.1	Providing and fixing on site 100 mm dia,2000 high M.S. Pipe with painting including excavation, refilling and disposal of surplus earth lead upto 50 metres etc. complete as per international standards.	each	5,056.00	2.00	0.00	0.00	0.00	0.00	10,112.00	-	-	-	-
9.2	Painting two coats on basketball court surface all material, labour etc. Complete. On new plastered concrete surface	job	40,000.00	0.00	1.00	0.00	0.00	0.00	-	40,000.00	-	-	-
9.3	Providing and fixing on site Basketball hoops and Fibreglass Board as per international standards on 450 mm dia MS pipe etc. complete.	each	15,376.00	0.00	2.00	0.00	0.00	0.00	-	30,752.00	-	-	-
9.4	Providing and fixing of Volley Ball court in 2 nos. M.S.pole .as per international standerd directed by Engineer-in Charge.	1 job	8,000.00	0.00	0.00	1.00	1.00	0.00	-	-	8,000.00	8,000.00	-
<b>Summary of Schedule-B Items</b>									<b>10,112.00</b>	<b>70,752.00</b>	<b>8,000.00</b>	<b>8,000.00</b>	<b>-</b>

<b>NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDYALAYA AT BHINGA,SHRAWASTI</b>			
<b>SUMMARY OF PRICED BOQ FOR RAIN WATER HARVESTING PIT - 3 NOS</b>			
<b>S. No.</b>	<b>SECTION</b>	<b>DESCRIPTION</b>	<b>AMOUNT (Rs.)</b>
1	SECTION- 1 CIVIL WORKS	SCHEDULE-A ITEMS (COST OF 1 RWPH PIT)	1,73,596.87
		SCHEDULE-B ITEMS (COST OF 1 RWPH PIT)	175.00
		SCHEDULE-A COST OF 3 RWPH PIT	5,20,790.61
		SCHEDULE-B COST OF 3 RWPH PIT	525.00
<b>TOTAL</b>			<b>5,21,315.61</b>

**NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDYALAYA AT  
BHINGA,SHRAWASTI**

**SUMMARY OF CIVIL WORK (RAIN WATER HARVESTING PIT)**

<b>S. No.</b>	<b>SECTION NO.</b>	<b>DESCRIPTION</b>	<b>AMOUNT (Rs.)</b>
	<b>SCHEDULE-A</b>		
1	Section-I	EARTH WORK	13,820.07
2	Section-II	CONCRETE WORK	4,709.67
3	Section-III	REINFORCED CEMENT CONCRETE	17,789.70
4	Section-IV	BRICK WORK	85,249.09
5	Section-V	FINISHING	15,774.05
6	Section-VI	MISCELLANEOUS WORK	36,254.30
		<b>SUB TOTAL</b>	<b>1,73,596.87</b>
7	Section-VII	SCHEDULE-B	175.00
		<b>SUB TOTAL</b>	<b>175.00</b>

<b>ESTIMATE FOR RAIN WATER HARVESTING</b>					
<b>NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDYALAYA AT BHINGA,SHRAWASTI</b>					
<b>S. No.</b>	<b>Item</b>	<b>Unit</b>	<b>Rate</b>	<b>Qty-Rain Water Harvesting</b>	<b>Amount</b>
	<b>SCHEDULE-A</b>				
1.0	<b>EARTH WORK</b>				
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.				
	All kind of Soil	cum	155.60	58.02	9,027.22
1.2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	112.40	34.00	3,821.60
1.3	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
	All kinds of soil	cum	46.25	21.00	971.25
	<b>Summary of Earth work</b>				<b>13,820.07</b>
2.0	<b>CONCRETE WORK</b>				
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				
2.1.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	4,301.15	1.09	4,709.67
	<b>Summary of Concrete work</b>				<b>4,709.67</b>
3.0	<b>REINFORCED CEMENT CONCRETE</b>				
3.1	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement :				
	1:1.5:3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	cum	7,074.30	0.93	6,569.05
3.2	Centering & shuttering including strutting, propping etc. and removal of form work for:				
3.2.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	401.65	9.29	3,729.64
3.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
3.3.1	Thermo-Mechanically Treated bars.	kilogram	68.10	110.00	7,491.00
	<b>Summary of Reinforced Cement Concrete</b>				<b>17,789.70</b>
4.0	<b>BRICK WORK</b>				

S. No.	Item	Unit	Rate	Qty-Rain Water Harvesting	Amount
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	4,918.65	15.89	78,179.38
4.2	Brick work with F.P.S. bricks of class designation 75 in super structure above plinth lvl.up to floor v level in all shapes and sizes in.				
	Cement mortar 1:4 (1 cement :4coarse sand)	Cum	5,667.55	1.25	7,069.70
	<b>Summary of Brick work</b>				<b>85,249.09</b>
5.0	<b>FINISHING</b>				
5.1	15 mm cement plaster 1:2 (1 cement : 2 stone dust) on the rough side of single or half brick wall	sqm	233.35	53.00	12,367.55
5.2	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	sqm	134.70	9.00	1,212.30
5.3	Neat cement punning.	sqm	41.40	53.00	2,194.20
	<b>Summary of Finishing</b>				<b>15,774.05</b>
6.0	<b>MISCELLANEOUS WORK</b>				
6.1	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, beyond 90 metre & upto 150 metre depth below ground level.				
	All types of soil				
	300 mm dia	Meter	474.90	20.00	9,498.00
6.2	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc.all complete, for all depths, as per direction of Engineer –in-charge				
	100 mm nominal size dia	Meter	424.20	20.00	8,484.00
6.3	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.				
	100 mm nominal size dia	Meter	447.65	6.00	2,685.90
6.4	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	Cum	504.15	1.00	504.15

S. No.	Item	Unit	Rate	Qty-Rain Water Harvesting	Amount
6.5	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	Cum	910.65	0.50	455.33
6.6	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	852.60	0.50	426.30
6.7	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	987.85	14.21	14,042.07
6.8	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:				
	100 mm dia	Each	158.55	1.00	158.55
	<b>Summary of Miscellaneous works</b>				<b>36,254.30</b>
7.0	<b>NON SCHEDULE WORK</b>				
7.1	Providing and fixing SS grating complete as per drawing, approval and instructions of the Engineer-in-charge.	Each	175.00	1.00	175.00
					<b>175.00</b>

<b>NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDYALAYA AT BHINGA,SHRAWASTI</b>				
<b>SUMMARY OF CIVIL WORK - Septic Tank</b>				
<b>S. No.</b>	<b>SECTION NO.</b>	<b>DESCRIPTION</b>	<b>SCHOOL SEPTIC TANK AMOUNT (Rs.)</b>	<b>RESIDENCE SEPTIC TANK AMOUNT (Rs.)</b>
1	Section-I	EARTH WORK	44,409.25	17,047.60
2	Section-II	CONCRETE WORK	25,806.90	8,602.30
3	Section-III	REINFORCED CEMENT CONCRETE	4,58,092.01	1,77,391.66
4	Section-IV	BRICK WORK	93,454.35	44,267.85
5	Section-V	FINISHING	34,169.85	18,316.15
6	Section-VI	MISCELLANEOUS WORK	71,280.00	71,280.00
		<b>Sub-Total</b>	<b>7,27,212.36</b>	<b>3,36,905.56</b>
		<b>TOTAL</b>		<b>10,64,117.92</b>

NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDYALAYA AT BHINGA,SHRAWASTI							
ABSTRACT OF CIVIL QUANTITIES - SEPTIC TANK							
S. No.	Item	Unit	Rate	QUANTITY		AMOUNT	
				Septic Tank School	Septic Tank Residential	Septic Tank School	Septic Tank Residential
1.0	<b>EARTH WORK</b>						
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.						
	All kinds of soil	cum	155.60	214.00	76.00	33,298.40	11,825.60
1.2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	112.40	54.00	30.00	6,069.60	3,372.00
1.3	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.						
	All kinds of soil	cum	46.25	109.00	40.00	5,041.25	1,850.00
	<b>Summary of Earth work</b>					<b>44,409.25</b>	<b>17,047.60</b>
2.0	<b>CONCRETE WORK</b>						
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level						
	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	4,301.15	6.00	2.00	25,806.90	8,602.30
	<b>Summary of Concrete work</b>					<b>25,806.90</b>	<b>8,602.30</b>
3.0	<b>REINFORCED CEMENT CONCRETE</b>						
3.1	Centering & shuttering including strutting, propping etc. and removal of form work for:						
3.1.1	Foundations, footings, bases of columns etc. for mass concrete.	sqm	196.45	61.00	33.00	11,983.45	6,482.85
3.1.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	332.15	51.68	25.84	17,165.51	8,582.76
3.1.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	401.65	40.00	10.00	16,066.00	4,016.50
3.1.4	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	sqm	360.80	39.00	19.00	14,071.20	6,855.20
3.2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						
	Thermo-Mechanically Treated bars.	kilogram	68.10	3175.00	1207.00	2,16,217.50	82,196.70
3.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.						
	Thermo-Mechanically Treated bars.	kilogram	68.10	0.00	0.00	-	-
3.4	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.						
3.4.1	All works upto plinth level	cum	6,296.15	29.00	11.00	1,82,588.35	69,257.65
3.4.2	All works above plinth level upto floor V level	cum	7,014.55	0.00	0.00	-	-



S. No.	Item	Unit	Rate	QUANTITY		AMOUNT	
				Septic Tank School	Septic Tank Residential	Septic Tank School	Septic Tank Residential
	<b>Summary of Reinforced Cement Concrete</b>					<b>4,58,092.01</b>	<b>1,77,391.66</b>
4.0	<b>BRICK WORK</b>						
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:						
	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	4,918.65	19.00	9.00	93,454.35	44,267.85
4.2	Brick work with F.P.S. bricks of class designation 75 in super structure above plinth lvl.up to floor v level in all shapes and sizes in.						
	Cement mortar 1:4 (1 cement :4coarse sand)	Cum	5,667.55	0.00	0.00	-	-
	<b>Summary of Brick work</b>					<b>93,454.35</b>	<b>44,267.85</b>
5.0	<b>FINISHING</b>						
5.1	6mm cement plaster 1:3 (1 cement : 3 fine sand) on ceiling / R.C.C. Beams etc.	sqm	134.70	76.00	28.00	10,237.20	3,771.60
5.2	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	134.70	77.00	39.00	10,371.90	5,253.30
5.3	Neat cement punning.	sqm	41.40	153.00	67.00	6,334.20	2,773.80
5.4	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	50.65	25.00	11.00	1,266.25	557.15
5.5	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :						
	150 mm dia. R.C.C. pipe	m	348.30	6.00	6.00	2,089.80	2,089.80
5.6	Providing and fixing soil, waste and vent pipes 100 mm dia						
	Sand cast iron S&S pipe as per IS: 1729	m	859.00	4.00	4.00	3,436.00	3,436.00
5.7	Providing and fixing terminal guard : 100 mm						
	Sand cast iron S&S as per IS - 3989	each	434.50	1.00	1.00	434.50	434.50
	<b>Summary of Finishing</b>					<b>34,169.85</b>	<b>18,316.15</b>
6.0	<b>MISCELLANEOUS WORK</b>						
6.1	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	311.60	14.00	14.00	4,362.40	4,362.40

S. No.	Item	Unit	Rate	QUANTITY		AMOUNT	
				Septic Tank School	Septic Tank Residential	Septic Tank School	Septic Tank Residential
6.2	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality 19.19.1 L D- 2.5						
	Rectangular shape 600x450 mm internal dimensions	Each	1,131.70	3.00	3.00	3,395.10	3,395.10
6.3	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.						
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	18,309.50	2.00	2.00	36,619.00	36,619.00
6.4	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	2,082.45	2.00	2.00	4,164.90	4,164.90
6.5	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :	each					
	1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :						
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	16,467.90	1.00	1.00	16,467.90	16,467.90
6.6	Extra depth for circular type manhole 1.22 m internal dia (at bottom) beyond 1.68 m to 2.29 m :						
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	6,270.70	1.00	1.00	6,270.70	6,270.70
	<b>Summary of Miscellaneous works</b>					<b>71,280.00</b>	<b>71,280.00</b>

**NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDYALAYA AT BHINGA,SHRAWASTI**

**SUMMARY OF CIVIL WORK**

**AMOUNT (Rs.)**

S. No.	SECTION NO.	DESCRIPTION	CANTEEN & PUMP ROOM	GARAGE	GUARD & PANEL ROOM	CYCLE STAND
<b>SCHEDULE-A</b>						
1	Section-I	EARTH WORK	17,823.21	20,107.22	14,892.76	33,580.00
2	Section-II	CONCRETE WORK	41,690.75	99,910.23	29,036.86	1,76,347.15
3	Section-III	REINFORCED CEMENT CONCRETE	3,31,562.48	4,53,014.40	2,18,794.92	1,29,868.69
4	Section-IV	BRICK WORK	1,11,271.00	90,796.19	82,793.41	2,68,536.16
5	Section-V	WOOD WORK	23,155.12	4,181.45	37,768.65	-
6	Section-VI	STEEL WORK	8,955.90	1,93,321.14	23,449.20	2,36,449.65
7	Section-VII	FLOORING	8,051.01	24,040.04	4,561.67	1,10,654.89
8	Section-VIII	ROOFING	7,562.75	-	3,919.60	-
9	Section-IX	FINISHING	26,128.45	61,472.57	36,600.73	88,679.98
10	Section-X	WATER PROOFING	44,912.08	32,596.86	13,247.65	-
11	Section-XI	MISCELLANEOUS WORK	19,708.67	-	4,616.40	1,21,987.75
		<b>SUB TOTAL</b>	<b>6,40,821.42</b>	<b>9,79,440.10</b>	<b>4,69,681.84</b>	<b>11,66,104.26</b>
<b>SCHEDULE-B</b>						
12	Section-XII	SCHEDULE-B	7,848.00	3,570.84	3,052.00	-
		<b>SUB TOTAL</b>	<b>7,848.00</b>	<b>3,570.84</b>	<b>3,052.00</b>	<b>-</b>
		<b>TOTAL</b>	<b>6,48,669.42</b>	<b>9,83,010.94</b>	<b>4,72,733.84</b>	<b>11,66,104.26</b>

NAME OF WORK: CONSTRUCTION OF KENDRIYA VIDYALAYA AT BHINGA,SHRAWASTI											
ABSTRACT OF CIVIL QUANTITIES											
S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
	<b>SCHEDULE-A</b>										
1.0	<b>EARTH WORK</b>										
1.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.										
	All kinds of soil	cum	157.50	42.00	90.29	40.00	124.00	6,615.00	14,221.42	6,300.00	19,530.00
1.3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	112.40	48.00	52.36	35.00	125.00	5,395.20	5,885.80	3,934.00	14,050.00
1.5	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :										
	All kinds of soil										
1.5.1	Pipes, cables etc, not exceeding 80 mm dia.	metre	127.56	0.00	0.00	5.00	0.00	-	-	637.80	-
1.5.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	208.30	5.00	0.00	5.00	0.00	1,041.50	-	1,041.50	-
1.6	Supplying chemical emulsion in sealed containers including delivery as specified.										
	Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	litre	185.95	5.33	0.00	3.50	0.00	991.95	-	651.18	-
1.7	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :										
	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:										

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
	With Chlorpyrifos/ Lindane E.C. 20% with 1% concentration	metre	15.40	23.84	0.00	17.54	0.00	367.14	-	270.12	-
1.8	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :										
	With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	sqm	118.90	28.70	0.00	17.31	0.00	3,412.43	-	2,058.16	-
	<b>Summary of Earth work</b>							<b>17,823.21</b>	<b>20,107.22</b>	<b>14,892.76</b>	<b>33,580.00</b>
2.0	<b>CONCRETE WORK</b>										
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shattering - All work up to plinth level										
2.1.1	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	4,301.15	7.00	9.64	4.00	41.00	30,108.05	41,472.89	17,204.60	1,76,347.15
2.1.2	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	cum	5,335.25	0.00	10.00	0.59	0.00	-	53,352.50	3,147.80	-
2.2	Providing and laying damp-proof course 50 mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	sq.m.	314.85	6.00	11.00	4.45	0.00	1,889.10	3,463.35	1,399.51	-
2.3	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50kg of cement.	per 50kg cement	48.15	2.00	3.52	1.00	0.00	96.30	169.49	48.15	-
2.4	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil	sqm.	132.00	6.00	11.00	4.00	0.00	792.00	1,452.00	528.00	-
2.5	Making Plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand :6graded stone aggregate 20mm nominal size) over 75mm bed by dry brick blast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	sqm.	419.30	21.00	0.00	16.00	0.00	8,805.30	-	6,708.80	-
	<b>Summary of Concrete work</b>							<b>41,690.75</b>	<b>99,910.23</b>	<b>29,036.86</b>	<b>1,76,347.15</b>

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
3.0	<b>REINFORCED CEMENT CONCRETE</b>										
3.2	Centering & shuttering including strutting, propping etc. and removal of form work for:										
3.2.1	Foundations, footings, bases of columns etc. for mass concrete.	sqm	196.45	16.00	15.14	14.00	23.00	3,143.20	2,974.25	2,750.30	4,518.35
3.2.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	332.15	48.00	91.00	41.00	0.00	15,943.20	30,225.65	13,618.15	-
3.2.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	401.65	47.00	39.00	18.00	0.00	18,877.55	15,664.35	7,229.70	-
3.2.4	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	453.35	33.00	31.19	29.70	33.00	14,960.55	14,137.72	13,464.50	14,960.55
3.2.6	Edges of slabs and breaks in floors and walls										
	Under 20 cm wide	metre	116.40	55.00	35.00	33.00	0.00	6,402.00	4,074.00	3,841.20	-
3.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.										
	Thermo-Mechanically Treated bars.	kilogram	68.10	1006.74	1171.93	889.00	1152.11	68,558.99	79,808.60	60,540.90	78,458.86

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
3.4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.										
	Thermo-Mechanically Treated bars.	kilogram	68.10	1276.00	1694.00	601.00	0.00	86,895.60	1,15,361.40	40,928.10	-
3.5	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.										
3.5.1	All works upto plinth level	cum	6,296.15	8.00	16.93	7.68	5.07	50,369.20	1,06,593.82	48,363.88	31,930.92
3.5.2	All works above plinth level upto floor V level	cum	7,014.55	9.47	12.00	4.00	0.00	66,412.18	84,174.60	28,058.20	-
	<b>Summary of Reinforced Cement Concrete</b>							<b>3,31,562.48</b>	<b>4,53,014.40</b>	<b>2,18,794.92</b>	<b>1,29,868.69</b>
4.0	<b>BRICK WORK</b>										
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:										
	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	4,918.65	4.00	11.00	6.86	54.60	19,674.60	54,105.15	33,764.75	2,68,536.16
4.2	Brick work with F.P.S. bricks of class designation 7.5 in super structure above plinth level up to floor V level in all shapes and sizes in.										
	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	5,667.55	16.00	6.20	8.00	0.00	90,680.80	35,166.44	45,340.40	-
4.3	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.										
	Cement mortar 1:3 (1 Cement : 3 coarse sand)	sqm	692.80	0.00	2.00	3.94	0.00	-	1,385.60	2,727.90	-
4.4	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry (with F.P.S. bricks).	sqm	69.50	0.00	2.00	3.94	0.00	-	139.00	273.66	-

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
4.5	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	metre	38.15	24.00	0.00	18.00	0.00	915.60	-	686.70	-
<b>Summary of Brick work</b>								<b>1,11,271.00</b>	<b>90,796.19</b>	<b>82,793.41</b>	<b>2,68,536.16</b>
5.0	<b>WOOD WORK</b>										
5.1	Providing and fixing ISI marked flush door shutters conforming to IS :2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :										
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1,909.55	4.00	0.00	5.36	0.00	7,638.20	-	10,225.64	-
5.2	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :										
5.2.1	125mm long	Each	28.90	11.00	0.00	18.00	0.00	317.90	-	520.20	-
5.2.2	100mm long	Each	26.40	0.00	0.00	0.00	0.00	-	-	-	-
5.3	Providing and fixing ISI marked oxidised M.S. sliding door bolts with necessary screws etc. complete										
	250x16mm	Each	166.20	2.00	0.00	3.00	0.00	332.40	-	498.60	-
5.4	Providing and fixing ISI marked oxidised M.S. tower bolt black finish,(Barrel type) with necessary screws etc. complete :										
	250x10mm	Each	66.96	2.00	0.00	3.00	0.00	133.92	-	200.88	-
5.5	150x10mm	Each	45.85	12.00	0.00	15.00	0.00	550.20	-	687.75	-
5.6	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										
	Twin rubber stopper	Each	83.95	2.00	0.00	3.00	0.00	167.90	-	251.85	-



S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
5.7	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	365.85	4.00	0.00	5.36	0.00	1,463.40	-	1,959.13	-
5.11	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge.										
	Second class teak wood										
	35 mm thick shutters	sqm	2,689.05	0.00	0.99	0.00	0.00	-	2,662.16	-	-
	Kiln seasoned and chemically treated hollock wood										
	35 mm thick shutters	sqm	1,731.05	4.00	0.00	3.00	0.00	6,924.20	-	5,193.15	-
5.12	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :										
	Float glass panes										
	4 mm thick glass pane	sqm	1,181.70	0.00	0.00	0.00	0.00	-	-	-	-
	5.5 mm thick glass panes	sqm	1,406.75	4.00	1.08	3.00	0.00	5,627.00	1,519.29	4,220.25	-
5.13	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws.										
	35 mm thick shutters										
	with ISI marked M.S. pressed butt hinges bright finished of required size										
	Second class teak wood	sqm	3,502.80	0.00	0.00	4.00	0.00	-	-	14,011.20	-
	<b>Summary of Wood work</b>							<b>23,155.12</b>	<b>4,181.45</b>	<b>37,768.65</b>	<b>-</b>
6.0	<b>STEEL WORK</b>										

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
6.1	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	K.g	73.95	0.00	0.00	0.00	2655.89	-	-	-	1,96,402.75
6.2	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.										
	In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works.	kilogram	90.10	0.00	0.00	159.00	410.00	-	-	14,325.90	36,941.00
6.3	Providing and fixing T-iron frames for doors, windows and ventilators 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.										
	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)	k.g	83.70	107.00	0.00	109.00	0.00	8,955.90	-	9,123.30	-
6.4	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	k.g	73.95	0.00	0.00	0.00	42.00	-	-	-	3,105.90
6.5	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.										
	Using flats 30x6mm for diagonal braces and central cross piece	sqm	2,906.65	0.00	52.99	0.00	0.00	-	1,54,015.24	-	-
6.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.										
	80x1.20 mm M.S. laths with 1.20 mm thick top cover	sqm	1,921.40	0.00	20.00	0	0	-	38,428.00	-	-
6.7	Providing and fixing ball bearing for rolling shutters.	each	438.95	0.00	2.00	0	0	-	877.90	-	-

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
	<b>Summary of Steel work</b>							<b>8,955.90</b>	<b>1,93,321.14</b>	<b>23,449.20</b>	<b>2,36,449.65</b>
<b>7.0</b>	<b>FLOORING</b>										
7.1	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.										
	40 mm thick with 20 mm nominal size stone aggregate	sqm	353.53	22.77	68.00	12.90	313.00	8,051.01	24,040.04	4,561.67	1,10,654.89
	<b>Summary of Flooring work</b>							<b>8,051.01</b>	<b>24,040.04</b>	<b>4,561.67</b>	<b>1,10,654.89</b>
<b>8.0</b>	<b>ROOFING</b>										
8.1	Providing and fixing on wall face unplasticised Rigid PVC rainwater pipes confirming to IS:13592 Type A including jointing with seal ring confirming to IS:5382 leaving 10 mm gap for thermal expansion.(l)single socketed pipes.										
8.1.1	110 mm diameter	metre	231.65	4.00	0.00	3.00	0.00	926.60	-	694.95	-
8.2	Providing and fixing on wall face unplasticised PVC moulded fitting accessories for unplasticised Rigid PVC rain water pipes confirming to IS-13592 type A including jointing with seal ring confirming to IS 5382 leaving 10mm gap for thermal expansion.										
	Coupler										
8.2.1	110 mm	each	138.30	1.00	0.00	1.00	0.00	138.30	-	138.30	-
8.3	Bend 87.5*										
	110 mm bend	each	161.55	1.00	0.00	1.00	0.00	161.55	-	161.55	-
8.4	Shoes (plain)										
	110 mm shoe	each	295.10	1.00	0.00	1.00	0.00	295.10	-	295.10	-
8.5	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.										
	110 mm	each	189.05	3.00	0.00	3.00	0.00	567.15	-	567.15	-

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
8.6	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	each	41.10	1.00	0.00	1.00	0.00	41.10	-	41.10	-
8.7	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :										
	In 75x75 mm deep chase	metre	143.10	23.84	0.00	0.00	0.00	3,411.50	-	-	-
8.8	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	each	186.65	1.00	0.00	1.00	0.00	186.65	-	186.65	-
8.9	Providing and fixing M.S. holder bat clamps of approved design to C.I. or S.C.I. rain water pipes embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and cost of cutting holes and making good the walls etc. :										
	100mm diameter	each	152.90	12.00	0.00	12.00	0.00	1,834.80	-	1,834.80	-
	<b>Summary of Roofing</b>							<b>7,562.75</b>	<b>-</b>	<b>3,919.60</b>	<b>-</b>
9.0	<b>FINISHING</b>										
9.1	12 mm cement plaster of mix : 1:6 (1 cement : 6 coarse sand)	sqm	158.40	16.00	88.00	48.00	0.00	2,534.40	13,939.20	7,603.20	-
9.2	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement : 6 coarse sand)	sqm	183.45	55.45	73.88	71.87	371.00	10,173.17	13,553.82	13,185.14	68,059.95
9.3	6mm cement plaster 1:3 (1 cement : 3 fine sand) on ceiling / R.C.C. Beams etc.	sqm	134.70	30.00	79.00	23.37	33.25	4,041.00	10,641.30	3,147.97	4,478.78
9.4	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	134.70	0.00	0.00	0.00	0.00	-	-	-	-

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT				
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	
9.5	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :											
	New work (two or more coats) over and including water tinnable priming coat with cement primer	sqm	89.70	46.00	167.00	71.00	0.00	4,126.20	14,979.90	6,368.70		-
9.8	Finishing walls with water proofing cement paint of required shade :											
	New work (Two or more coats applied @ 3.84 kg/10 sqm)	sqm	57.85	55.00	74.00	72.00	0.00	3,181.75	4,280.90	4,165.20		-
9.9	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :											
	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	sqm	106.25	19.00	38.38	20.05	130.00	2,018.75	4,077.45	2,130.53		13,812.50
9.12	Neat cement punning.	sqm	41.40	0.00	0.00	0.00	56.25	-	-	-		2,328.75
9.17	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	50.65	1.05	0.00	0.00	0.00	53.18	-	-		-
	<b>Summary of Finishing</b>							<b>26,128.45</b>	<b>61,472.57</b>	<b>36,600.73</b>		<b>88,679.98</b>
10.0	<b>WATER PROOFING</b>											
10.1	Providng and laying integral cement based water proofing treatment including preparation of surfaces as required for treatment of roofs, balconies, terraces etc consisting of following operations : a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS 2645 and approved by Engineer-in-Charge over the RCC slab including adjoining walls upto 300mm height including cleaning the surface before treatment .											

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
	b) Laying brick bats with mortar using broken bricks / brick bats 25mm to 115mm size with 50% of cement mortar 1:5 (1cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in Charge over 20mm thick layer of cement mortar of max 1:5 (1cement : 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 300mm height including rounding of junctions of walls and slabs.										
	c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in Charge.										
	d) Finishing the surface with 20mm jointless cement mortar of mix 1:4 (1cement : 4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in Charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300mm square 3mm deep.										
	e) The whole terrace so finished shall be flooded with water for for minimum period of 2weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-charge:										
	With average thickness of 120mm and minimum thickness at khurra as 65 mm.	sqm	1,019.05	44.07	31.99	13.00	0.00	44,912.08	32,596.86	13,247.65	-
	<b>Summary of Water Proofing</b>							<b>44,912.08</b>	<b>32,596.86</b>	<b>13,247.65</b>	<b>-</b>
11.0	<b>MISCELLANEOUS WORK</b>										
11.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.										
11.2	Granite of any colour and shade										

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
	Area of slab over 0.50 sqm	sqm	3,907.40	4.00	0.00	0.00	0.00	15,629.60	-	-	-
11.3	Providing edge moulding to 18mm thick marble/Granite stone counters,Vanities etc.including machine polishing to edge to give high gloss finish etc.completeas per design approved by Engineer -in-charge.										
	Marble work	Mtr.	136.10	6.06	0.00	0.00	0.00	824.77	-	-	-
	Granite Work	Mtr.	230.55	6.00	0.00	0.00	0.00	1,383.30	-	-	-
11.4	Extra for fixing marble/Granite stone over and above corresponding basic item, in facia and drops of width upto 150mm with epoxy resin based adhesive including cleaning etc.	Mtr.	247.40	6.00	0.00	0.00	0.00	1,484.40	-	-	-
11.5	Extra for providing opening of required size & shape for wash basins/ Kitchen sink in kitchen platform, vanity counters and similar location in marble /Granite /stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc.complete	Each	386.60	1.00	0.00	0.00	0.00	386.60	-	-	-
11.16	Providing and fixing precoated galvanised iron profile sheets (size,shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 2777, 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 Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.1.00 mm thick with zink coating not less than 275 gm/sqm	sqm	622.00	0.00	0.00	0.00	163.00	-	-	-	1,01,386.00

S. No.	Item	Unit	Rate	QUANTITY				AMOUNT			
				Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand	Canteen & Pump Room	Garage	Guard & Panel Room	Cycle Stand
11.17	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :										
	Ridges plain (500 - 600mm)	Mtr.	633.90	0.00	0.00	0.00	32.50	-	-	-	20,601.75
11.43	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.										
	Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	sqm	577.05	0.00	0.00	8.00	0.00	-	-	4,616.40	-
	<b>Summary of Miscellaneous works</b>							<b>19,708.67</b>	<b>-</b>	<b>4,616.40</b>	<b>1,21,987.75</b>
	<b>TOTAL SCHEDULE - A RATE</b>							<b>6,40,821.42</b>	<b>9,79,440.10</b>	<b>4,69,681.84</b>	<b>11,66,104.26</b>
12.0	<b>SCHEDULE - B</b>										
12.1	<b>Chicken Mesh</b> : P/F hexagonal chicken mesh having opening 20mmx20mm of 26 gauge at junctions of concrete & brick work or between different material etc. as directed by Engineer-in-charge.	sqm	218.00	36.00	16.38	14.00	0.00	7,848.00	3,570.84	3,052.00	-
	<b>SCHEDULE-B TOTAL</b>							<b>7,848.00</b>	<b>3,570.84</b>	<b>3,052.00</b>	<b>-</b>