

Construction & Development Works of Godabarisha Mishra Adarsha Prathamika Vidyalaya at various locations in the district of Bolangir, Odisha			
SUMMARY OF COST			
SI No.	Description	Scheduled Amount (Rs.)	Non-Scheduled Amount(Rs.)
1	CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT BAKTI GOVERNMENT UPS, BAKTI, AGALPUR, BOLANGIR, ODISHA		
	CIVIL WORKS: -	5,23,08,322.00	8,39,574.83
	PH WORKS: -	32,48,428.51	
	ELECTRICAL WORKS: -	30,21,905.66	
2	CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT KUMBHARKHAN PUPS, BAGDOR, BELPADA, BOLANGIR, ODISHA		
	CIVIL WORKS: -	5,01,82,266.76	8,39,574.83
	PH WORKS: -	31,44,601.75	
	ELECTRICAL WORKS: -	30,68,503.86	
3	CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT KURULUBAHAL UPS, CHANABAHAL , BOLANGIR,ODISHA		
	CIVIL WORKS: -	5,13,63,011.93	8,39,574.83
	PH WORKS: -	31,72,620.91	
	ELECTRICAL WORKS: -	30,68,503.86	
4	CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT HALDI UPS, HALDI , BOLANGIR,ODISHA		
	CIVIL WORKS: -	5,08,71,704.93	8,39,574.83
	PH WORKS: -	31,56,446.66	
	ELECTRICAL WORKS: -	30,68,503.86	
5	CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT TENDAPADAR GOVERNMENT UGHS, TENDAPADAR,PATNAGARH, BOLANGIR, ODISHA.		
	CIVIL WORKS: -	5,05,78,354.95	7,11,504.09
	PH WORKS: -	32,69,491.46	
	ELECTRICAL WORKS: -	30,68,503.86	
6	CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT SILUAN UGHS, SILUAN, TITLAGARH, BOLANGIR, ODISHA.		
	CIVIL WORKS: -	5,04,26,844.61	8,39,574.83
	PH WORKS: -	31,45,327.81	
	ELECTRICAL WORKS: -	30,68,503.86	
7	CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA		
	CIVIL WORKS: -	5,10,13,168.80	8,39,574.83
	PH WORKS: -	31,71,966.62	
	ELECTRICAL WORKS: -	30,68,503.86	
	TOTAL	40,04,85,486.51	57,48,953.06
	Sub Total	40,62,34,440.00	

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT BAKTI GOVERNMENT UPS, BAKTI, AGALPUR, BOLANGIR, ODISHA

BILL OF QUANTITIES (CIVIL WORK)

Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
1	Item No. 16 & Page No. 19	Excavation, loading, unloading and carriage by mechanical means of all kinds of soil, including stoney earth, gravel and moorum etc interspread with boulders upto 1/2 cum size with all lifts and delifts including trimming of slopes and bed to design section and depositing the the excavated materials away from work site as per the specification and as directed by the Engineer- in-charge within an initial lead of 1km from the place of excavation complete.						
		Ground Floor	Cum	2645.49	117.41		3,10,606.98	
		C.WALL	Cum	136.79	117.41		16,060.51	
2	Ref:AOR(Odisha)/I.Earth Work-14,Page No-8	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	Cum	881.83	204.26		1,80,120.83	
3	Item No. 16 & Page No. 19	Filling the Foundation, Sides of Foundation, etc. in mechanical means with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of machinery, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-			
		Ground Floor	Cum	1763.66	117.41		2,07,071.32	
		C.WALL	Cum	91.19	117.41		10,706.62	
4		Supplying, diluting and preparing chemical emulsion like Imidacloprid 30.5 % SC or other chemicals approved by Central Insecticides Board or as directed by the manufacturer and spraying the mixture uniformly by sprayer as Pre/Post-Constructional Anti-termite Treatment confirming to IS 6313 (Part-II) including the cost of all materials, cost of all labour, conveyance, loading, unloading, T&P, etc. all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	sqm	1818.06	-	123.31		2,24,184.98
5	Ref:AOR(Odisha)/I.Earth Work-15,Page No-8	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth , well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the dirrection of Engineer-in-charge.			-	-	-	
		Ground Floor	Cum	177.27	980.23	-	1,73,764.66	
		C.WALL	Cum	6.62	980.23	-	6,489.10	
6	Ref:AOR(Odisha)/III-Concrete -3,Page No-43	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.			-	-	-	
		Ground Floor	Cum	428.91	7,707.52	-	33,05,834.12	
		C.WALL	Cum	11.63	7,707.52	-	89,638.50	
		RCC WORK			-	-	-	

7	Ref:AOR(O disha)/IV- RCC-10- iv,Page No- 54	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance,loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement.			-	-	-	
		(A)R.C.C. foundation and footing bases of columns mass concrete pre-cast slab etc.			-	-	-	
		Ground Floor	Cum	343.45	8,615.06	-	29,58,843.04	
		C.WALL	Cum	9.00	8,615.06	-	77,535.56	
		R.C.C. Plinth Beam			-	-	-	
		Ground Floor	Cum	135.85	9,646.85	-	13,10,525.12	
		C.WALL	Cum	5.63	9,646.85	-	54,311.79	
		(B)R.C.C. Column &cRoof Beam			-	-	-	
		Ground Floor	Cum	269.33	19,686.77	-	53,02,236.69	
		C.WALL	Cum	3.09	19,686.77	-	60,832.11	
		Terrace	Cum	34.40	22,136.80	-	7,61,505.92	
		(C) R.C.C. Slab			-	-	-	
		Ground Floor	Cum	242.35	15,434.05	-	37,40,441.05	
		C.WALL	Cum	0.42	15,434.05	-	6,482.30	
		Terrace	Cum	13.65	17,033.65	-	2,32,509.38	
		(D)R.C.C. Staircase			-	-	-	
		Ground Floor	Cum	10.09	19,524.16	-	1,96,998.79	
		(E)R.C.C. lintel			-	-	-	
		Ground Floor	Cum	33.16	17,717.23	-	5,87,503.28	
		Terrace	Cum	0.97	19,773.50	-	19,180.29	
		(F)R.C.C. Fins			-	-	-	
		Ground Floor	Cum	17.02	14,589.40	-	2,48,311.62	
8	Ref:AOR(O disha)/IV- RCC- 9,Page No- 52	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).			-	-	-	
		Ground Floor	Qntl	977.97	11,250.24	-	1,10,02,395.26	
		C.WALL	Qntl	22.54	11,250.24	-	2,53,580.36	
		Terrace	Qntl	76.47	11,290.44	-	8,63,379.99	
		BRICK WORK			-	-	-	
9	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying Brick Masonry work in Foundation & Plinth using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge.			-	-	-	
		Ground Floor	Cum	194.50	7,658.79	-	14,89,634.66	
		C.WALL	Cum	17.34	7,658.79	-	1,32,803.42	

10	Ref:AOR(O disha)/VI- Brick Work- 02,Page No- 71	Providing and laying Brick masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:4) for Half Brick Masonry Wall with provisions for 2 nos 6mm dia MS bar at each 4th layer after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge. (Excluding Cost Of Steel Reinforcement).			-	-	-	
		Ground Floor	Cum	34.41	7,953.20	-	2,73,669.61	
11	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying of Full Brick Masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties.			-	-	-	
		Ground Floor	Cum	453.25	7,698.20	-	34,89,210.06	
		C.WALL	Cum	25.88	7,698.20	-	1,99,229.47	
		Terrace	Cum	158.97	8,153.56	-	12,96,172.07	
12	Ref:AOR(O disha)/X- Plastering- 27,Page No- 109	Providing 6 mm thick Cement Plaster in Cement Mortar of (1:4) to Ceilings of Roof Slabs, Stairs, Landings, Chajja, Shelves, Columns, Beams and Lofts etc. including roughening, scraping and cleaning and finishing the plastered surface smooth using wooden floats only to proper plumbs and level, making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading and royalties, all labour, scaffolding, watering and curing , sundries, T&P etc. complete as per direction of the Engineer-in-charge			-	-	-	
		Ground Floor	Sqm	83.59	255.47	-	21,354.74	
		C.WALL	Sqm	64.71	255.47	-	16,531.46	
13	Ref:AOR(O disha)/X- Plastering- 16,Page No- 106	Providing 12mm thick cement plaster in cement mortar (1:4) to the surface of half brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.			-	-	-	
		Ground Floor	Sqm	2147.18	243.20	-	5,22,189.88	
		C.WALL	Sqm	3209.45	248.86	-	7,98,710.15	
14	Ref:AOR(O disha)/X- Plastering- 14,Page No- 105	Providing 16mm thick cement plaster in cement mortar (1:6) to the surfaces of brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.(inner side)			-	-	-	
		Ground Floor	Sqm	3559.07	330.40	-	11,75,916.73	
		C.WALL	Sqm	202.50	330.40	-	66,906.00	
		C.WALL	Sqm	170.16	338.90	-	57,666.54	

15	CCE LEVEL COMMITTEE MEETING HELD ON 12.02.2024 AT 11 AM	Waterproofing application:- Providing and application of two component polymer odified flexible cementitious waterproofing coating at a thickness of 1.5-2.5 mm The membrane hould have Elongation equal or more than: 30% etc.as per direction of E.I.C (For longer span, in errace panel of 4m*4m should be done by roovecutting, and filling with PU Sealant) Crack Bridging ability: Up to 1 mm Adhesive strength: 1.0 N/mm² @ 28d Tensile elongation: 60% @ 20°C Shore A Hardness >85 (between 3-7 days)			-	-	-		
		Terrace	Sqm	1874.36	578.20	-	-	10,83,754.95	
		FINISHING WORK			-	-	-		
16	Ref: OPWD/Revised Analysis of Rate/Ch-XIX-SI. No.2	Supplying and finishing the plastered surface of wall using 2 Coats of Cement Based Wall Putty (Water Based) of approved make and quality and finished smooth and even surface to receive the paint including the cost of all materials, cost of all labour, conveyance, taxes, loading, unloading, scaffolding, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-	-	-		
		Interior Wall Putty			-	-	-		
		Ground Floor	Sqm	5096.62	76.11	-	-	3,87,903.75	
		C.WALL	Sqm	170.16	78.35	-	-	13,332.38	
17	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Providing and applying 2 coats plastic emulsion paint of approved quality and shade over a coat of wall primer of approved quality to surfaces (interior) including thoroughly brushing the surface free from foreign materials, sand papering smooth the intermediate coats, providing necessary putty & primer including of all materials, labour, conveyance,royalties, scaffolding, watering, curing, sundries, tools and plants etc as per the direction of Engineer-in-charge. (colour & shade to be approved before procurment & use)			-	-	-		
		Ground Floor	Sqm	5168.33	229.04	-	-	11,83,743.97	
		First Floor	Sqm	267.94	234.11	-	-	62,727.97	
18	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Providing and Painting with Two Coats Weather Coat Paint (exterior grade) of approved make & shade manufactured by reputed manufacturer make an even finished surface over a coat of water bound cement primer and wall putty in all heights with all scaffolding and staging charges including cost, conveyance, cost of all labours, T & P, sundries etc. as required for the work complete.			-	-	-		
		Ground Floor	Sqm	2446.95	219.72	-	-	5,37,634.07	
		TERRACE	Sqm	267.21	219.72	-	-	58,710.31	
		First Floor	Sqm	1350.36	228.09	-	-	3,08,009.01	
19	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Painting two coats of synthetic enamel paint over Iron Works as per approved shade of approved quality over a coat of primer, sand papering, polishing the surface including cost, conveyance,labour, T&P, scaffolding etc. as required for the work complete as per direction of Engineer-in-charge. (The paints and primer are to be approved before procurement and use)			-	-	-		
		Ground Floor	Sqm	201.09	317.42	-	-	63,829.99	
		C.WALL	Sqm	44.41	317.42	-	-	14,096.62	
		First Floor	Sqm	25.62	323.20	-	-	8,280.44	
20	Ref: Revised Analysis of Rate (Ch-XIX/SI. No./1 -b)	Providing and laying of 600 mm x 600 mm Vitrified Floor Tiles Matt Finish Anti Skid Plain Series confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-		
		Ground Floor	Sqm	775.10	1,351.45	-	-	10,47,512.00	

21	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying of Vitrified Tiles Matt Finish Plain Series in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 600mm x 600mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	73.80	1,511.58	-	1,11,554.60	
22	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mmx300mm antiskid ceramic floor Tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	82.32	1,296.94	-	1,06,763.94	
23	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Ceramic wall tile With Epoxy Grout For Toilet Providing and laying of Glazed Ceramic Wall Tiles in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 300mm x 450mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	318.76	1,449.16	-	4,61,933.60	
24	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing & laying Heavy Duty Vetrified Floor Tile Matt Finish Rustic Series having thickness 10mm confirming to IS 4457 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces with oxlaic acid, machine grinding, mirror polishing including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	662.15	1,458.95	-	9,66,045.07	

25	Ref: OPWD/Analysis of Rate/Page No.90	Providing & laying Heavy Duty Vetrified Tile Matt Finish Rustic Series having thickness 10mm in dado/skirting confirming to IS : 15622 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 12mm thick cement mortar (1:3) (1 cement: 3 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	75.83	1,619.31	-	1,22,792.58	
26	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mm x 300mm Chequered Tiles. tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	136.51	808.30	-	1,10,341.03	
27		Providing & laying granite stone flooring in Floors and landing using 19-20 mm thick granite stone slab of approved quality, colour and size above 0.4 Sqm as per IS 14223 laid over an under layer of 20 mm thick cement mortar (1:4) (1 cement: 4 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of granite tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	9.45	3,713.93	-	35,096.66	
		BUILT IN JOINERIES			-	-	-	

28	Ref: DAR-SH-26.86.6	Providing and fixing 65mm X 125mm factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceasetory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.			-	-	-	
		Ground Floor	Rmt	99.75	1,398.77	-	1,39,527.51	
29	Ref: DAR-SH-26.88.1 2023	Providing and fixing of 30 mm thick factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with SS 304 Grade Matt Finished 3 Nos butt hinges of Size 100mm X 60mm X 2.5mm, 1 No 250mm X 16mm Aldrop, 1 No 150mm x 16mm tower bolt, 2 No 150mm length Door handle with necessary full body threaded star headed counter sunk S.S screws, floor/hanging door stopper & hydraulic door closer as required and mentioned in architectural drawing all as per direction of Engineer-In- Charge.			-	-	-	
		Ground Floor	Sqm	139.28	6,179.07	-	8,60,620.87	
30		Supplying and fixing of Powder coated 50-60 microns approved colour of aluminium 40mm Casement series Door Unit with suitable aluminium extrude profiles. the system is designed to accommodate 12mm clear toughened glass. the rate quoted inclusive of hardwares like antilift, roller, Espag lock cum handle, epdm gaskets, T mullion, Fly Mullion, bottom adopter, mid transom, glazing clip for 12 mm glass felt along with all accessories etc complete. The gap between the wall and window will be filled with silicon weather sealant in the outer side. including the cost of all materials ,hardware fittings, cost of all labour, conveyance, loading, un loading, T&P, etc, complete as per the direction of Engineer-in Charge.(As per Proceeding of C.C.E. Level committee meeting held on dt. 12.02.2024 at 11.30 A.M.)			-	-	-	
		Ground Floor	Sqm	4.32	-	14,664.80	63,351.95	
31	Item No. 16 & Page No. 19	Supplying, fitting and fixing of M.S. grill ,Grated doors etc made out of M.S. flats/square bars as per drawing and design fixed in position to proper plumb with cost, conveyance, Materials, labour, T&P etc. required for the complete in all respect as per the direction of Engineer-in-Charge.			-	-	-	
		Ground Floor	Kg	8202.65	117.19	-	9,61,234.10	
		C.WALL	Kg	3683.16	117.19	-	4,31,614.05	
		Terrace	Kg	946.80	117.19	-	1,10,951.52	

32		Supplying, fabricating & fixing of polished stainless steel (304 grade) items made out of pipes, angles, flats, plates, hollow tube, square pipe bracing as per approved design and specification, buffing, polishing etc. with cost, conveyance, labour in railing, parapet, staircase, space frame etc required for the work complete in all respect as per direction of Engineer-in-charge.			-	-	-	
		Ground Floor	Kg	468.01	405.68	-	1,89,864.17	
33	SOR Sl. No 12 Page- 235	Supplying , fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame, shutters and all fitting and fixtures.			-	-	-	
		Ground Floor	Sqm	147.15	5,853.94	-	8,61,407.95	
34		Providing and fixing barbed wire fencing on R.C.C. (1:2:4) fencing posts with chips 1.68M long 13cm x 13cm at bottom and 8cm x 8cm at top and 30cm 30cm x 8 cm base finished smooth by means of staples and staining hooks by means of tying with G.I wire and including cost of barbed wire, staples, hooks, tying wires and labour, post etc complete in all respect as per the direction of the Engineer-in-charge.			-	-		
		Length of Barbed Fencing	Rmt	300.00	1,091.29	-	3,27,387.46	
35	Market Rate	Supplying, Providing and installing of modified flexible polyolefin (FPO) membrane system (Water Proofing tape) which shall be designed to be bonded over expansion and movement joints upto 200 mm in structures to prevent the passage of water having elongation at break more than 600%, maximum permissible permanent elongation shall not less than 20% and having resistance to aggressive conditions like ground water, soil, cement water, bitumen and bitumen emulsion coatings .It is bonded in position using two part epoxy adhesive and consumption of adhesive shall be as per manufacturers direction after proper fixing of the necessary back up materials as specified and directed by the EIC.The item rate shall be including all materials, all kinds of labours, T & P, machineries, lead and lift, mathadi Charges, curing, wastages,consumables, cleaning, shifting of debris outside the premises, surface preparation etc complete as per design, drawing & direction of EIC.			-	-		
		Ground Floor	Rmt	154.00	-	3,157.80		4,86,300.89
36	CPWD	Providing and fixing of expansion joint system (150 mm-200 mm wide) related with wall/soffit/ceiling joint(internal/external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members,aligning / centering arrangement and support plates as per ASTM B221-selfCharge.02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application,as well as horizontal covers for Soffits/ Ceilings both new and existing construction in Buildings/complexes/Structures 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 conform to ASTM 6063). The design			-	-		
		Ground Floor	Rmt	10.50	-	6,260.67		65,737.00

37	(DAR 2006- Page No- 249 item- 14)	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon			-	-		
		Ground Floor	Sqm	21.60	5,853.94	-	1,26,445.20	
		TERRACE	Sqm	16.80	5,853.94	-	98,346.27	
38	(DAR 2006- Page No- 247 item- 13)	Providing and fixing of partly fixed partly top hung and partly louvered windows of approved make to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyester paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and with all vertical and horizontal mullions are of 46x70 mm and fixed beadings are of 18x25 mm. Section for internal top and bottom frames in the louvered areas should be 18 x 40 mm. Top hung shutter should be of 46 x 46 mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle being made of high grade aluminium powder coated and with nylon receiver and gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The mullion caps and louvered-clips should be of glass filled nylon. The sections are to be cut to length,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by			-	-		
		Providing and fixing of 12mm thick Clear toughened Glass Frameless Door With Dormo Premium Fittings Dormo Premium (0411400)			-	-	-	
		Ground Floor	Sqm	9.72	5,885.10	-		
		Total					5,23,08,322.00	8,39,574.83

A.	INTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
1	Providing and fixing Chlorinated Polyvinyl Chloride [CPVC] pipes SDR-11 conforming to IS:15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fitting including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per specification and direction of Engineer-in-charge.				
	20 mm PVC sch-80 pipes	Mtr	70.0	362.97	25,407.76
	25 mm PVC sch-80 pipes	Mtr	70.0	503.62	35,253.68
	32 mm PVC sch-80 pipes	Mtr	100.0	692.90	69,289.60
	50 mm PVC sch-80 pipes	Mtr	120.0	1417.77	1,70,132.40
				0.00	
2	Supplying all materials,labour and T&P for cutting holes through existing brick work including making good to the same in cement mortar(1:4) for taking G.I. pipes and fittings /P.V.C. pipes and fittings all complete as per specification.			0.00	
	250mm Thick	Each	38.0	82.72	3,143.28
				0.00	
3	Supplying all materials,labour and T&P for cutting holes in R.C.C. floors and roofs up to 19 cm. thick including for passing GI / PVC pipes and fittings etc. and repairing the holes after insertion of pipes etc. with cement concrete 1:2:4 including finishing complete to make it leak proof leak to the damages all complete as per specification and direction of the Engineer-in-charge.			0.00	
		Each	7.0	260.07	1,820.50
				0.00	
4	Supplying all materials,labour and T&P for cutting grooves in pucca floor and walls for taking G.I. pipes and fittings /P.V.C. pipes and fittings and making good to the damages all complete as per specification.			0.00	
		Mtr	70.0	341.73	23,920.96
				0.00	
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge.			0.00	
				0.00	
a)	Supplying all labour and T&P for fixing 2 in 1 bib cock of the following size as per specification all complete.			0.00	
		Each	16.0	1543.79	24,700.70
				0.00	
b)	Supplying all labour and T&P for fixing long body bib cock of the following size as per specification all complete. 15mm Dia			0.00	
		Each	4.0	1272.28	5,089.10
				0.00	
c)	Supplying all labour and T&P for fixing CP Angular stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete. 15mm Dia			0	
		Each	28.0	1106.37	30,978.30

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
				0.00	
d)	Supplying fitting fixing of C.P Pillar Taps highpressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification. 15mm Dia			0	
		Each	17.0	1740.50	29,588.50
				0.00	
e)	Supplying all labour and T&P for fixing CP short body Bib cock [taps] polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete .			0	
		Each	3.0	1080.29	3,240.87
				0.00	
f)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete.) 25mm Dia	Each	6.0	810.78	4,864.67
				0.00	
g)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 32mm Dia	Each	4.0	1677.49	6,709.95
				0.00	
h)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 50mm Dia	Each	2.0	3687.62	7,375.24
				0.00	
i)	Providing and fixing C.P. Brass Extension Nipple 1 inch with extension piece as per direction of Engineer-in-charge.	Each	15.0	701.38	10,520.70
				0.00	
j)	Supplying fitting fixing of CP waste of the following noninal diameter for wash hand basin and sink as per specification.	Each	14.0	448.52	6,279.25
				0.00	
k)	Supplying all materials,labour and T&P for fixing CP Gratings of the following nominal diameter of outlet, of self cleaning design with sand cast iron screwed down or hinged grating with or without vent arm including cutting and making good to the walls and floors etc. all complete as per specification.			0	
		Each	38.0	1404.67	53,377.54
				0.00	
l)	Providing and fixing of approved make and model for Chrome plated Grab Bar,for Physically challenged toilet, The work shall include the cutting of walls or floors & making good, complete as per direction of Engineer in Charge.			0	
		Each	1.0	5177.18	5,177.18
				0.00	
6	Supplying fitting fixing of C.P health facuet high pressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification.			0.00	
	15mm dia CP Health Faucet of 1mtr long PVC tube			0	
		Each	8.0	955.56	7,644.51
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
7	Providing and fixing of Rational moulded polyethylene cylendrical vertical water storate tanks confirming to IS:12701-1996 including cutting holes through the tank and fixing mild steel tubes and fittings and proviidng extra sockets and jam nuts , fixing ball volve etc. including hoisting up to a hite of 5.00metes above ground level and placing the tank to the required position etc. all complete as per specification and direction of the engineer-in-charge.			0.00	
i)	Overhead water storage tanks	Lit.	8000.0	16.04	1,28,329.63
	Extra over item no.3.1.8 for hoisting Rational moulded polyethylene cylendrical vertical water storage tanks of following sizes for every additional height of 5.00m. Or part thereof complete as per specification and direction of the engineer-in-charge.			0.00	
	Water storage tanks	Each	4.0	1472.64	5,890.56
8	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.			0.00	
	110mm diameter PVC SWR pipes	Mtr	105.0	461.73	48,482.07
	75mm diameter PVC SWR pipes	Mtr	90.0	286.62	25,795.98
	110mm PVC door Tee	Each	12.0	458.55	5,502.58
	75mm PVC door Tee	Each	5.0	345.74	1,728.70
	110mm PVC offset	Each	10.0	162.84	1,628.40
	110mm PVC door bend	Each	10.0	255.35	2,553.52
	75mm PVC door bend	Each	10.0	134.64	1,346.38
	110mm PVC plain shoe bend	Each	10.0	201.54	2,015.44
	75mm PVC plain shoe bend	Each	10.0	98.18	981.76
	110mm PVC vent cowl	Each	10.0	102.19	1,021.88
	75mm PVC vent cowl	Each	0.0	86.14	-
	110mm S-trap	Each	12.0	743.05	8,916.55
	110mm P-trap	Each	1.0	410.88	410.88
	110mm SWR Pipe Clip	Each	105.0	35.87	3,766.56
	75mm SWR Pipe Clip	Each	90.0	27.61	2,485.08
	110/75 mm Dia Reducer/Connector	Each	5.0	305.03	1,525.15
	90mm Nahani Trap	Each	33.0	171.81	5,669.66
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
9	Supplying all materials,labour and T&P for fixing of PVC 10 ltr capacity low level flushing cistern with manually controlled device[handle cover] confirming to IS 7231 with fittings and fixtures etc. all complete as per specification.			0.00	
	10 Liters capacity PVC cistern			0	
		Each	16.0	2306.07	36,897.18
				0.00	
10	Supplying all materials,labour and T&P for fixing water closet ,squatting pan(Indian type.W.C.pan or Orissa pan) confirming to IS 2556 : Part-3-2004 duly embedded in cement concrete (1:4:8) using 40mm.nominal size h.b.g. chips [including foot rest for I.W.C. and trap] all complete as per specificationand directon of theEngineer - in - charge.			0.00	
				0	
		Each	8.0	4528.49	36,227.89
				0.00	
11	Supplying all materials,labour and T&P for fixing in cement mortar (1:3) a pair of white vitereous china (250x130x30mm.) foot rest for squatting water closet. etc. all complete as per specificationand direction of the Engineer-in-charge.			0.00	
				0	
		Pair	8.0	661.86	5,294.90
				0.00	
12	Supplying all materials,labour and T&P for Supplying all materials,labour and T&P for fixing wash down water closet (European type W.C.) with integral "S" or "P" trap tothe floor with wooden plug and chromium plated screw including jointing the trap with soil pipe in cement mortar (1:1) etc. all complete as per specification.			0.00	
		Each	7.0	3747.21	26,230.46
				0.00	
13	Supplying all materials,labour and T&P for fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers all complete as per specification.			0.00	
		Each	7.0	1089.61	7,627.28
				0.00	
14	Supplying all materials,labour and T&P for fixing wash hand basin (SS Made) with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	12.0	5427.17	65,126.09
				0.00	
15	Supplying all materials,labour and T&P for fixing corner wash hand basin with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	4.0	3146.59	12,586.35
				0.00	

SI. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
16	Supplying all materials,labour and T&P for fixing Pedestal for wash hand basin complete recessed at the back for the receiptionof pipe and fittings etc. all complete as per specification including cost of pedestal for wash basin			0.00	
				0	
		Each	4.0	3093.84	12,375.37
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
17	Supplying all materials,labour and T&P for fixing of 600x450 bevelled edge mirror of superior glass mounted on 6mm thick ac sheet or ply wood sheet and fixed to wooden plugs with chromium plated brass screws and washers etc. All complete as per specification .			0	
	600mmx450mm size B.E.mirror			0	
		Each	12.0	2557.89	30,694.63
				0.00	
18	Supplying all materials,labour and T&P for fixing standard size glass self with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws and washers etc. all complete as per specification.			0.00	
		Each	13.0	946.01	12,298.08
				0.00	
19	Supplying all materials,labour and T&P for fixing standard size C. P. towel rail fixed with chromium plated brass brackets fixed to wooden plugs with cromium plated brass screws complete as per specification.			0.00	
				0	
		Each	8.0	1274.52	10,196.14
				0.00	
20	Supplying all materials,labour and T&P for fixing of cromium plated brass soap dish complete with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws as per specification.			0.00	
				0	
		Each	16.0	418.19	6,691.07
				0.00	
21	Supplying all materials,labour and T&P for fixing standard size C. P. towel ring fixed fixed to wooden plugs with cromium plated brass screws complete as per specification.	Nos	16.0	645.22	10,323.58
				0	
22	Supplying all materials,labour and T&P for fixing of liquid soap container - glass container or plastic container with chromium plated brass lid and brackets fixed to wooden plugs with chromium plated brass screws as per specification.	Nos	4.0	2086.83	8,347.32
				0.00	
23	Supplying all materials,labour and T&P for fixing stainless steel AISI 304 [18/8] Kitchen sink as per IS 13983 with cast iron bracet and stainless steel plug including painting of fittings and brackets ,cutting and making good to the walls etc. all as per specification including cost of sink with all accessories.			0	
		Nos	2.0	7267.86	14,535.71
				0.00	
24	Supplying all labour and T&P for fixing CP Concealed stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete.	Each	8.0	1326.32	10,610.56
				0.00	
25	Supplying all materials,labour and T&P for fixing Porcelain Urinal respectively with waste pipe by means of white lead mixed with chopped hemp etc. all complete as per specification.	Each	8.0	8961.16	71,689.25

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
				0.00	
26	Fixing standard size Chromium Plated brass or glazed porcelain Toilet paper holder fixed to woden plugs with Chromium Plated brass screws complete as per specification and direction of the Engineer in charge.	Each	2.0	1404.55	2,809.11
				0.00	
27	Providing and fixing approved quality E.W.C Matrix Set with grab bar set for Handicap (Accessible) Toilet consisting of stainless steel grab bars and support fittings required for differently-abled users, conforming to universal accessibility standards. The set shall include wall-mounted horizontal and vertical support bars near WC and wash basin area, made of SS 304 grade stainless steel with satin/matt finish, complete with necessary brackets, anchor fasteners, screws, bends, end caps, and accessories. The arrangement shall provide safe support and ease of movement for wheelchair users and physically challenged persons. Installation shall be done in proper alignment, level, and position as per approved drawings and accessibility guidelines, complete in all respects as per the direction of the Engineer in charge.	Each	1.0	94164.00	94,164.00

	Total Rs.				12,47,290.46

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT BAKTI GOVERNMENT UPS, BAKTI, AGALPUR, BOLANGIR, ODISHA					
B.	EXTERNAL P.H. & SANITARY WORK BAKTI GOVERNMENT UPS, BAKTI, AGALPUR				
Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
1	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap, Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per aproved drawing, specification and direction of Engineer-in-charge.				
	250mmx250mm with RCC cover	Each	10.00	2161.64	21,616.42
				0.00	
2	Constructing inspection chamber with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			0.00	
	Inspection Chamber inside size 750mm x 750mm and 450mm	Each	8.00	16631.75	1,33,053.97
				0.00	
3	Supplying all materials,labour and T&P for laying in trenches unplasticized PVC pipes and specials of the following outside dia. for all classes including jointing with approved solvent cement by non-heat application method including testing as per specification and direction of Engineer-in-charge etc. all complete. [including earth work and cost of pipes.			0.00	
a)	110 mm dia U-PVC pipes Class-3	mtr	60.00	1241.36	74,481.60
b)	160 mm dia U-PVC pipes Class-3	mtr	30.00	2672.46	80,173.92
				0.00	
4	Constructing manholes with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			0.00	
a)	Plain Manholes inside size 900mm x 800mm and 450mm deep	each	8.00	22240.17	1,77,921.34
				0.00	
5	Construction of 50 Users Septic Tank (2 No.s)			0.00	
a)-i	Earth work in excavation in foundation trenches, column foundation, pit, etc in all kind of soil including moorum stony earth and earth mixed with boulders except sheet rock and boulders not requiring blasting including dressing of sides and levelling the bed up to the required depth and depositing the excavated materials away from the work site with initial lead of 50 mtr and all lifts, including shoring, shuttering & dewatering (if required) with cost of labour, labour cess, hire & running charges of all machineries, sundries & T&P required for the work complete as directed by the Engineer in charge.	Cum	56.88	433.73	24,670.71
a)-ii	Above 1.5mt. Depth	Cum	47.57	465.06	22,122.05
				0.00	
b)	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.	Cum	70.71	241.02	17,043.15
				0.00	
c)	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth, well watered and compact, top surface dressed and levelled to proper level and gradient including cost of all materials, conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the dirrection of Engineer-in-charge.	Cum	2.96	1156.67	3,421.42
				0.00	

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
d)	Providing and lying Plain Cement Concrete of proportion (1:4:8) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, taxes, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	2.96	8562.56	25,328.06
				0.00	
e)	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	3.92	9094.88	35,688.30
				0.00	
f)	Providing 12mm thick cement plaster in cement mortar (1:4) with neat cement punning including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, taxes, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.	Sqm	15.84	297.83	4,717.70
				0.00	
g)	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance, loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement			0.00	
i.	Base	Cum	4.47	10165.77	45,441.01
ii.	Slab	Cum	4.64	18212.17	84,577.34
iii.	Wall	Cum	15.85	17215.49	2,72,865.59
h)	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).	Qtl.	40.00	13275.28	5,30,978.85
				0.00	
i)	Supplying all materials, labour, T&P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	4.00	188.92	755.67
				0.00	
j)	Supplying all materials, labour, T&P and laying in trenches (to level or slope) and jointing with provision of stiff mixture of cement mortar in proportion of 1:1 for salt glazed stoneware pipes, Grade—A of the following internal diameters including testing of pipes and joints complete. 110mm diameter UPC pipe	Mtr	12.00	1241.36	14,896.32
				0.00	
6	Constructing RCC soak way pit with R.C.C top slab in (1:2:4) mix, inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, complete as per specification.			0.00	
a)	RCC soak way pit of size 1.5m x 1.8m deep	each	8.00	12161.79	97,294.30
				0.00	
	Borewell			0.00	

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
7	Supplying all materials,labour T&P and providing fitting submersible pump with squarrel cage inspection type submerssible type submersible electric motor to run on 3 phase/1 phase line voltage rangingfrom 320 volt to 450 volt conforming to IS :8034/89			0.00	
a	One no. 3 phase 2 H.P 3 stage head range 30 to 54 mtr. Discharge 155 to 200 LMP with outlate dia 32mm.	Set	1	23423.00	23,423.00
b	2.5 Sq mm cable.	Mtr	70	181.72	12,720.40
c	40mm dia steel short piece.	Each	2	238.36	476.72
d	Steel rope wit cover.	Mtr	70	41.77	2,924.04
e	Well Cap.	Each	1	238.36	238.36
f	50mm size CI bracket.	Each	1	143.02	143.02
g	20mm dia rigid HDPE pipes.	Mtr	70	117.76	8,243.48
h	Boring up to 30 mtr.	Mtr	30	1050.55	31,516.62
i	Boring work Above 30 mtr.	Mtr	50	1050.55	52,527.70
j	8" ASTM pipe SCH-80	Mtr	70	2702.74	1,89,192.00
k	Delivery	Set	1	2360.00	2,360.00
l	Labour charges for lowering of summerssible pumpset with pipes and cables etc with testing and commissioning at site.	Mtr	70	147.50	10,325.00

	Total Rs.				20,01,138.05

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT BAKTI GOVERNMENT UPS, BAKTI, AGALPUR, BOLANGIR, ODISHA					
INTERNAL ELECTRICAL WORK FOR SCHOOL BUILDING BAKTI GOVERNMENT UPS, BAKTI, AGALPUR					
Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT Rs.
	INTERNAL WIRING				
1	Recessed wiring to light point / first light of group control/ call bell point/ exhaust fan point /wall fan point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6 Amp, 250 V clip in type switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge.				
	Group C	Nos.	150	1,497.42	2,24,613.00
2	Recessed wiring to secondary light point looped from primary light point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including 3 plate ISI marked Ceiling rose with all accessories & connection as per direction of Engineer-in-charge. Average Length 2 mtr.	Nos.	55	564.04	31,022.20
				-	
3	Recessed wiring to ceiling fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch,Stepped type Modular Regulator, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. Group c	Nos.	65	1,964.70	1,27,705.50
				-	
4	Recessed wiring to Twin control light point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6Amp, 250 V clip in type 2way switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer-in-charge.Group C	Nos.	10	2,017.80	20,178.00
				-	
5	Recessed wiring for 5 / 6 amp socket outlet with 6Amp, 250 V clip in type modular switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection on same switch board as per direction of Engineer-in-charge.	Nos.	53	682.04	36,148.12
				-	
6	Recessed wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection on separate board as per direction of Engineer-in-charge.Group C	Nos.	5	1,674.42	8,372.10
				-	
7	Recessed wiring for 2 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of Engineer-in-charge.	Nos.	35	1,251.98	43,819.30
				-	
8	Recessed wiring for 6 pin 16 amp socket outlet with 16Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection as per direction of Engineer-in-charge.	Nos.	20	1,083.24	21,664.80
				-	
9	Recessed wiring for A.C/ Power socket outlet with industrial type socket outlet, plug top and metal chained cover in sheet steel enclosure ,20A/32A SP MCB including all accesories and connection as per direction of Engineer-in-charge.	Nos.	5	1,293.28	6,466.40
10	Recessed wiring to exhaust fan/Wall Fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge.Group C	Nos.	22	1,497.42	32,943.24
11	Call bell point	Nos.	3	1,689.76	5,069.28

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
12	Recessed wiring for 3 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accessories and connection on separate board as per direction of Engineer-in-charge.	Nos.	1	1,405.38	1,405.38
				-	-----
	SUB TOTAL			-	5,59,407.32
	SUBMAIN			-	
13	Recessed wiring to submain in 4 x 10 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	75	579.38	43,453.50
				-	
14	Recessed wiring to submain in 4 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	395.30	59,295.00
				-	
15	Recessed wiring to submain in 2 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 25 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	20	280.84	5,616.80
				-	
16	Recessed wiring to submain in 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	750	240.72	1,80,540.00
				-	
17	Recessed wiring to submain in 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	1850	219.48	4,06,038.00
				-	
18	Recessed wiring to submain in 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	202.96	30,444.00
				-	-----
	SUB TOTAL			-	7,25,387.30
				-	

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
19	DB			-	
	Supply and fixing of following way three pole and neutral, sheet steel, MCB distribution, 415 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic cover for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required with necessary MCB , RCCB / ISOLATORS as required. Note for MCB- There should be colour indication for tripping On ,Off & Trip/There should be mid trip position for toggles for electrical fault conditions.			-	
a)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For PDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-63A FP MCB (10KA) Outgoings-10/20A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
b)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For LDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
c)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For UPS DB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
				-	
	SUB TOTAL			-	1,50,198.66
				-	
	CABLE			-	
20	Supply & Laying of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of 3.5core 150 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	200	2,289.20	4,57,840.00
21	Supply & Laying of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of 3.5core 95 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	50	1,616.60	80,830.00
22	Supply & Laying of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of 4 core 16 sq.mm Aluminium on surface as required.	Rmt	20	634.84	12,696.80
				-	
	SUB TOTAL			-	5,51,366.80
				-	
	END TERMINATION			-	
	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum cable of 1.1 KV as required.			-	
23	3.5C x 150 sq.mm	set	2	1,239.00	2,478.00
24	3.5C x 95 sq.mm	set	2	1,121.00	2,242.00
25	4C x 16 sq.mm	set	2	649.00	1,298.00
				-	
	SUB TOTAL			-	6,018.00
				-	
	PANEL			-	
	Supply, installation, testing & commissioning of floor mounting front operated front access extensible type cubicle panel totally enclosed, dust and vermin proof with IP-42 /55 protection with hinged and lockable doors. CRCA sheets including interconnections, tinned copper crimping lugs, bonding to earth and painting suitable for use at 415 V, 3phase 4 wire 50 Hz system, and to withstand a fault level of 35 KA symmetrical for 1 sec at 415 V complete as per specifications, as required and as below : All switchboards shall have provision for entry of cables from the bottom as required. All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The bus bars shall be insulated with heat shrinkable sleeves. SMC/DMC shrouds and busbar supports shall be used with Indication lamp, C.T , Digital Voltmeter, Digital Ammeter and control fuse etc. complete.			-	
26	MAIN PANEL with 150A 4P MCCB 36KA -1 No as incomer, 63A 4P MCB 10KA 4Nos, 100A 4P Change over Switch 1Nos, 40A 4P MCB 10KA-9Nos, 32A DP MCB 10KA-3Nos with E.C Busbars with 4nos 65KA VSD along with 4nos 32A SP MCB.	set	1	1,91,504.56	1,91,504.56

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	SUB TOTAL			-	1,91,504.56
				-	
	EARTHING			-	
27	Earthing with copper earth plate 600 mm x 600mm x 3.15 mm thick ISI marked including accessories and providing masonry with cover plate having loccking arrangement and watering pipe etc with charcoal and salt as required.	Set	4	16,233.26	64,933.04
28	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	Rmt	15	860.22	12,903.30
29	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked on surface or in recess for connection etc as required.	Rmt	50	923.94	46,197.00
30	Providing and fixing 8 SWG CU wire on surface or in recess for loop earthing as required.	Rmt	50	105.02	5,251.00
	SUB TOTAL			-	1,29,284.34
				-	
	FIXTURE			-	
	Supply, installation, testing and Commissioning of pre-wired fluorescent fitting / compact fluorescent fitting /LED fitting of all sizes complete with all accessories and lamp etc. directly on ceiling /wall or recessed in false ceiling , including connection with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor and earthing as required.			-	
31	Ceiling mounted indoor type batten type LED Luminaire with LED Lamp	Nos	130	554.60	72,098.00
32	Ceiling/ Wall mounted type BULK HEAD Luminaire	Nos	10	1,267.32	12,673.20
33	Supply, Installation, testing and commissioning of 10W Mirror Light	Nos	15	364.62	5,469.30
34	Supply, Installation, Testing and Commissioning of ceiling fan 1200mm sweep, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FR PVC insulated single core multiatrand copper conductors as required.BLDC FAN.	Nos	55	4,659.82	2,56,290.10
35	Supply, Installation, testing and commissioning of exhaust fan of 250 mm PLASTIC Exhaust Fan (Vntilation Fan) complete, connection, etc as required.250MM CRISP AIR EXH FAN.	Nos	17	2,109.84	35,867.28
36	Supply & fixing of 18W LED Down Light (S/R) with all accessories.	Nos	50	1,250.80	62,540.00
37	Supply & fixing of LED 36w 2'x2' Surface/Recessed Mounted Light as required .	Nos	15	2,269.14	34,037.10
38	Supply & fixing of 6W LED Down Light (S/R) with all accessories.	Nos	10	636.02	6,360.20
39	Supply, Installation, testing and commissioning of wall fan of 400 mm sweep as required.Model-400mm STRIKER HI SPEED.	Nos	5	3,645.02	18,225.10
	SUB TOTAL			-	5,03,560.28
	PERFORATED CABLE TRAY			-	
	Supply and installation of Pregalvanised Perforated type cable trays without cover. The rate shall include bends, Tees, all supporting brackets, anchor fasteners, screws, bolts, nuts etc., including painting of cable trays. Thickness of sheet steel shall be 2 mm. Support sizes			-	
40	Size of Cable Tray :300 mm x 50 mm	Rmtr	10	916.86	9,168.60
41	Size of Cable Tray :150 mm x 50 mm	Rmtr	40	712.72	28,508.80
	SUB TOTAL			-	37,677.40

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
				-	
	TV /TEL & DATA			-	
42	Supplying and fixing of clip in type modular Telephone socket ISI marked mounted on G.I modular box with face plate & cover of suitable size ,including all accesories and connection as per direction of Engineer in Charge.	Nos	10	450.76	4,507.60
43	Supplying and fixing of clip in type modular T.V. antenna socket ISI marked on mounted on G.I modular box with face plate & cover of suitable size , including all accesories and connection as per direction of Engineer in Charge.	Nos	10	462.56	4,625.60
44	Supplying and drawing 4 pair, 0.5 sq.mm FR PVC insulated coper conductor, unarmoured telephone cable in existing surface / recessed PVC conduit as required.	Rmt	250	53.10	13,275.00
45	Recessed wiring to television point with cable RG-6 grade, 0.7 mm solid copper conductor PE insulated shielded with fine tined copper braid and protected with FR PVC sheath in in existing surface / recessed PVC conduit as required as per direction of Engineer in Charge.	Rmt	150	47.20	7,080.00
46	Supplying and fixing of following sizes PVC conduit along with accessories in recessed wiring including cutting the wall and making good the same in case of recessed conduit as required.			-	
	20mm	Rmt	250	121.54	30,385.00
47	Supplying and fixing of 16 / 18 SWG metal box of 200 mm x 150 mm x 60 mm deep on surface / recess with suitable size of phenolic laminated sheet cover in front including cutting the wall and making good the same in case of recessed conduit as required. (Tel junction Box)	Nos	1	212.40	212.40
48	Supplying & Commissioning of Telephone Hand Set.	Nos	10	866.12	8,661.20
49	Supplying & installation of 100 pair KRONE make moudles with locking & key arrangements fabricated with MS sheet & powder coated to be fixed on concealed manner incl. good the damages.	set	1	2,950.00	2,950.00
50	SITC of 4 pair Cat6 23 awg U/UTP LSZH Cable in the existing surface/ recessed steel/ PVC conduit as required: The 4 pair Unshielded Twisted Pair cable shall be UL Listed,exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E , 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must,Insertion Loss of 32.8 db/100m at 250 MHz ,Cable should support operating temperature from -20° to +70°C Cable support Conductor Resistance ≤ 9.38 Ω/100m Max., Cable support Delay Skew: < 45 ns/100m, Operating Voltage: 72V , Impedance: 100 ± 15 Ω @100 MHz. and Propagation Delay @250 MHz : 536 ns/100m ETL Verified 4 connector channel performance up to	Mtr	750	97.94	73,455.00
51	Supply & fixing of RJ-45Jack of Category 6 with Dual-port British-style Face plate 86x86 mm with Curveture and wall mount box.	Nos	20	1,117.46	22,349.20
	SUB TOTAL				1,67,501.00

	TOTAL INTERNAL ELECTRICAL WORK=				30,21,905.66

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT KUMBHARKHAN PUPS, BAGDOR, Belpada, Bolangir, Odisha

BILL OF QUANTITIES (CIVIL WORK)								
Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
1	Item No. 16 & Page No. 19	Excavation, loading, unloading and carriage by mechanical means of all kinds of soil, including stoney earth, gravel and moorum etc interspread with boulders upto 1/2 cum size with all lifts and delifts including trimming of slopes and bed to design section and depositing the the excavated materials away from work site as per the specification and as directed by the Engineer- in-charge within an initial lead of 1km from the place of excavation complete.						
		Ground Floor	Cum	2645.49	117.41		3,10,606.98	
		C.WALL	Cum	136.79	117.41		16,060.51	
2	Ref:AOR(Odisha)/I.Earth Work-14,Page No-8	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	Cum	881.83	204.26		1,80,120.83	
3	Item No. 16 & Page No. 19	Filling the Foundation, Sides of Foundation, etc. in mechanical means with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of machinery, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-			
		Ground Floor	Cum	1763.66	117.41		2,07,071.32	
		C.WALL	Cum	91.19	117.41		10,706.62	
4		Supplying, diluting and preparing chemical emulsion like Imidacloprid 30.5 % SC or other chemicals approved by Central Insecticides Board or as directed by the manufacturer and spraying the mixture uniformly by sprayer as Pre/Post-Constructional Anti-termite Treatment confirming to IS 6313 (Part-II) including the cost of all materials, cost of all labour, conveyance, loading, unloading, T&P, etc. all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	sqm	1818.06	-		123.31	2,24,184.98
5	Ref:AOR(Odisha)/I.Earth Work-15,Page No-8	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth , well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the dirrection of Engineer-in-charge.			-		-	
		Ground Floor	Cum	177.27	809.60	-		1,43,517.44
		C.WALL	Cum	6.62	809.60	-		5,359.54
6	Ref:AOR(Odisha)/III-Concrete - 3,Page No-43	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.			-		-	
		Ground Floor	Cum	428.91	7,011.21	-		30,07,176.37
		C.WALL	Cum	11.63	7,011.21	-		81,540.33
		RCC WORK			-		-	

7	Ref:AOR(O disha)/IV- RCC-10- iv,Page No- 54	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance,loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement.			-	-	-	
		(A)R.C.C. foundation and footing bases of columns mass concrete pre-cast slab etc.			-	-	-	
		Ground Floor	Cum	343.45	7,962.29	-	27,34,647.13	
		C.WALL	Cum	9.00	7,962.29	-	71,660.57	
		R.C.C. Plinth Beam			-	-	-	
		Ground Floor	Cum	135.85	8,994.08	-	12,21,845.50	
		C.WALL	Cum	5.63	8,994.08	-	50,636.66	
		(B)R.C.C. Column &cRoof Beam			-	-	-	
		Ground Floor	Cum	269.33	19,033.99	-	51,26,424.53	
		C.WALL	Cum	3.09	19,033.99	-	58,815.03	
		Terrace	Cum	34.40	21,484.02	-	7,39,050.43	
		(C) R.C.C. Slab			-	-	-	
		Ground Floor	Cum	242.35	14,781.27	-	35,82,240.78	
		C.WALL	Cum	0.42	14,781.27	-	6,208.13	
		Terrace	Cum	13.65	16,380.88	-	2,23,598.98	
		(D)R.C.C. Staircase			-	-	-	
		Ground Floor	Cum	10.09	18,871.39	-	1,90,412.28	
		(E)R.C.C. lintel			-	-	-	
		Ground Floor	Cum	33.16	17,064.57	-	5,65,861.14	
		Terrace	Cum	0.97	19,120.84	-	18,547.21	
		(F)R.C.C. Fins			-	-	-	
		Ground Floor	Cum	17.02	13,936.74	-	2,37,203.38	
8	Ref:AOR(O disha)/IV- RCC- 9,Page No- 52	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).			-	-	-	
		Ground Floor	Qntl	977.97	11,250.24	-	1,10,02,395.26	
		C.WALL	Qntl	22.54	11,250.24	-	2,53,580.36	
		Terrace	Qntl	76.47	11,290.44	-	8,63,379.99	
		BRICK WORK			-	-	-	
9	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying Brick Masonry work in Foundation & Plinth using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge.			-	-	-	
		Ground Floor	Cum	194.50	6,520.33	-	12,68,203.41	
		C.WALL	Cum	17.34	6,520.33	-	1,13,062.45	

10	Ref:AOR(O disha)/VI- Brick Work- 02,Page No- 71	Providing and laying Brick masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:4) for Half Brick Masonry Wall with provisions for 2 nos 6mm dia MS bar at each 4th layer after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge. (Excluding Cost Of Steel Reinforcement).			-	-	-	
		Ground Floor	Cum	34.41	6,814.74	-	2,34,495.07	
11	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying of Full Brick Masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties.			-	-	-	
		Ground Floor	Cum	453.25	6,559.62	-	29,73,147.77	
		C.WALL	Cum	25.88	6,559.62	-	1,69,762.97	
		Terrace	Cum	158.97	7,015.10	-	11,15,190.45	
12	Ref:AOR(O disha)/X- Plastering- 27,Page No- 109	Providing 6 mm thick Cement Plaster in Cement Mortar of (1:4) to Ceilings of Roof Slabs, Stairs, Landings, Chajja, Shelves, Columns, Beams and Lofts etc. including roughening, scraping and cleaning and finishing the plastered surface smooth using wooden floats only to proper plumbs and level, making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading and royalties, all labour, scaffolding, watering and curing , sundries, T&P etc. complete as per direction of the Engineer-in-charge			-	-	-	
		Ground Floor	Sqm	83.59	254.17	-	21,246.24	
		C.WALL	Sqm	64.71	254.17	-	16,447.47	
13	Ref:AOR(O disha)/X- Plastering- 16,Page No- 106	Providing 12mm thick cement plaster in cement mortar (1:4) to the surface of half brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.			-	-	-	
		Ground Floor	Sqm	2147.18	240.60	-	5,16,615.80	
		C.WALL	Sqm	3209.45	246.27	-	7,90,378.41	
14	Ref:AOR(O disha)/X- Plastering- 14,Page No- 105	Providing 16mm thick cement plaster in cement mortar (1:6) to the surfaces of brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.(inner side)			-	-	-	
		Ground Floor	Sqm	3559.07	327.33	-	11,64,997.50	
		C.WALL	Sqm	202.50	327.33	-	66,284.73	
		C.WALL	Sqm	170.16	335.83	-	57,144.49	

15	CCE LEVEL COMMITTEE MEETING HELD ON 12.02.2024 AT 11 AM	Waterproofing application:- Providing and application of two component polymer modified flexible cementitious waterproofing coating at a thickness of 1.5-2.5 mm The membrane should have Elongation equal or more than: 30% etc.as per direction of E.I.C (For longer span, in terrace panel of 4m*4m should be done by roovecutting, and filling with PU Sealant) Crack Bridging ability: Up to 1 mm Adhesive strength: 1.0 N/mm² @ 28d Tensile elongation: 60% @ 20°C Shore A Hardness >85 (between 3-7 days)			-	-	-		
		Terrace	Sqm	1874.36	578.20	-	-	10,83,754.95	
		FINISHING WORK			-	-	-		
16	Ref: OPWD/Revised Analysis of Rate/Ch- XIX-SI. No.2	Supplying and finishing the plastered surface of wall using 2 Coats of Cement Based Wall Putty (Water Based) of approved make and quality and finished smooth and even surface to receive the paint including the cost of all materials, cost of all labour, conveyance, taxes, loading, unloading, scaffolding, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-	-	-		
		Interior Wall Putty			-	-	-		
		Ground Floor	Sqm	5096.62	76.11	-	-	3,87,903.75	
		C.WALL	Sqm	170.16	78.35	-	-	13,332.38	
17	Ref:AOR(O disha)/IX- Painting- 1,20 & Page No- 93,99	Providing and applying 2 coats plastic emulsion paint of approved quality and shade over a coat of wall primer of approved quality to surfaces (interior) including thoroughly brushing the surface free from foreign materials, sand papering smooth the intermediate coats, providing necessary putty & primer including of all materials, labour, conveyance,royalties, scaffolding, watering, curing, sundries, tools and plants etc as per the direction of Engineer-in-charge. (colour & shade to be approved before procurment & use)			-	-	-		
		Ground Floor	Sqm	5168.33	229.04	-	-	11,83,743.97	
		First Floor	Sqm	267.94	234.11	-	-	62,727.97	
18	Ref:AOR(O disha)/IX- Painting- 1,20 & Page No- 93,99	Providing and Painting with Two Coats Weather Coat Paint (exterior grade) of approved make & shade manufactured by reputed manufacturer make an even finished surface over a coat of water bound cement primer and wall putty in all heights with all scaffolding and staging charges including cost, conveyance, cost of all labours, T & P, sundries etc. as required for the work complete.			-	-	-		
		Ground Floor	Sqm	2446.95	219.72	-	-	5,37,634.07	
		TERRACE	Sqm	267.21	219.72	-	-	58,710.31	
		First Floor	Sqm	1350.36	228.09	-	-	3,08,009.01	
19	Ref:AOR(O disha)/IX- Painting- 1,20 & Page No- 93,99	Painting two coats of synthetic enamel paint over Iron Works as per approved shade of approved quality over a coat of primer, sand papering, polishing the surface including cost, conveyance,labour, T&P, scaffolding etc. as required for the work complete as per direction of Engineer-in-charge. (The paints and primer are to be approved before procurement and use)			-	-	-		
		Ground Floor	Sqm	201.09	317.42	-	-	63,829.99	
		C.WALL	Sqm	44.41	317.42	-	-	14,096.62	
		First Floor	Sqm	25.62	323.20	-	-	8,280.44	
20	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying of 600 mm x 600 mm Vitrified Floor Tiles Matt Finish Anti Skid Plain Series confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-		
		Ground Floor	Sqm	775.10	1,347.91	-	-	10,44,768.14	

21	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying of Vitrified Tiles Matt Finish Plain Series in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 600mm x 600mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	73.80	1,509.10	-	1,11,371.73	
22	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mmx300mm antiskid ceramic floor Tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	82.32	1,293.40	-	1,06,472.52	
23	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Ceramic wall tile With Epoxy Grout For Toilet Providing and laying of Glazed Ceramic Wall Tiles in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 300mm x 450mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	318.76	1,446.68	-	4,61,143.72	
24	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing & laying Heavy Duty Vetrified Floor Tile Matt Finish Rustic Series having thickness 10mm confirming to IS 4457 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces with oxlaic acid, machine grinding, mirror polishing including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	662.15	1,455.41	-	9,63,701.06	

25	Ref: OPWD/Analysis of Rate/Page No.90	Providing & laying Heavy Duty Vetrified Tile Matt Finish Rustic Series having thickness 10mm in dado/skirting confirming to IS : 15622 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 12mm thick cement mortar (1:3) (1 cement: 3 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	75.83	1,616.84	-	1,22,604.67	
26	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mm x 300mm Chequered Tiles. tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	136.51	804.64	-	1,09,841.68	
27		Providing & laying granite stone flooring in Floors and landing using 19-20 mm thick granite stone slab of approved quality, colour and size above 0.4 Sqm as per IS 14223 laid over an under layer of 20 mm thick cement mortar (1:4) (1 cement: 4 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of granite tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	9.45	3,710.27	-	35,062.09	
		BUILT IN JOINERIES			-	-	-	

28	Ref: DAR-SH-26.86.6	Providing and fixing 65mm X 125mm factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceasetory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.			-	-	-	
		Ground Floor	Rmt	99.75	1,398.77	-	1,39,527.51	
29	Ref: DAR-SH-26.88.1 2023	Providing and fixing of 30 mm thick factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with SS 304 Grade Matt Finished 3 Nos butt hinges of Size 100mm X 60mm X 2.5mm, 1 No 250mm X 16mm Aldrop, 1 No 150mm x 16mm tower bolt, 2 No 150mm length Door handle with necessary full body threaded star headed counter sunk S.S screws, floor/hanging door stopper & hydraulic door closer as required and mentioned in architectural drawing all as per direction of Engineer-In- Charge.			-	-	-	
		Ground Floor	Sqm	139.28	6,179.07	-	8,60,620.87	
30		Supplying and fixing of Powder coated 50-60 microns approved colour of aluminium 40mm Casement series Door Unit with suitable aluminium extrude profiles. the system is designed to accommodate 12mm clear toughened glass. the rate quoted inclusive of hardwares like antilift, roller, Espag lock cum handle, epdm gaskets, T mullion, Fly Mullion, bottom adopter, mid transom, glazing clip for 12 mm glass felt along with all accessories etc complete. The gap between the wall and window will be filled with silicon weather sealant in the outer side. including the cost of all materials ,hardware fittings, cost of all labour, conveyance, loading, un loading, T&P, etc, complete as per the direction of Engineer-in Charge.(As per Proceeding of C.C.E. Level committee meeting held on dt. 12.02.2024 at 11.30 A.M.)			-	-	-	
		Ground Floor	Sqm	4.32	-	14,664.80		63,351.95
31	Item No. 16 & Page No. 19	Supplying, fitting and fixing of M.S. grill ,Grated doors etc made out of M.S. flats/square bars as per drawing and design fixed in position to proper plumb with cost, conveyance, Materials, labour, T&P etc. required for the complete in all respect as per the direction of Engineer-in-Charge.			-	-	-	
		Ground Floor	Kg	8202.65	117.19	-	9,61,234.10	
		C.WALL	Kg	3683.16	117.19	-	4,31,614.05	
		Terrace	Kg	946.80	117.19	-	1,10,951.52	

32		Supplying, fabricating & fixing of polished stainless steel (304 grade) items made out of pipes, angles, flats, plates, hollow tube, square pipe bracing as per approved design and specification, buffing, polishing etc. with cost, conveyance, labour in railing, parapet, staircase, space frame etc required for the work complete in all respect as per direction of Engineer-in-charge.			-	-	-	
		Ground Floor	Kg	468.01	405.68	-	1,89,864.17	
33	SOR Sl. No 12 Page- 235	Supplying , fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame, shutters and all fitting and fixtures.			-	-	-	
		Ground Floor	Sqm	147.15	5,853.94	-	8,61,407.95	
34		Providing and fixing barbed wire fencing on R.C.C. (1:2:4) fencing posts with chips 1.68M long 13cm x 13cm at bottom and 8cm x 8cm at top and 30cm 30cm x 8 cm base finished smooth by means of staples and staining hooks by means of tying with G.I wire and including cost of barbed wire, staples, hooks, tying wires and labour, post etc complete in all respect as per the direction of the Engineer-in-charge.			-	-		
		Length of Barbed Fencing	Rmt	300.00	1,032.07	-	3,09,622.01	
35	Market Rate	Supplying, Providing and installing of modified flexible polyolefin (FPO) membrane system (Water Proofing tape) which shall be designed to be bonded over expansion and movement joints upto 200 mm in structures to prevent the passage of water having elongation at break more than 600%, maximum permissible permanent elongation shall not less than 20% and having resistance to aggressive conditions like ground water, soil, cement water, bitumen and bitumen emulsion coatings .It is bonded in position using two part epoxy adhesive and consumption of adhesive shall be as per manufacturers direction after proper fixing of the necessary back up materials as specified and directed by the EIC.The item rate shall be including all materials, all kinds of labours, T & P, machineries, lead and lift, mathadi Charges, curing, wastages,consumables, cleaning, shifting of debris outside the premises, surface preparation etc complete as per design, drawing & direction of EIC.			-	-		
		Ground Floor	Rmt	154.00	-	3,157.80		4,86,300.89
36	CPWD	Providing and fixing of expansion joint system (150 mm-200 mm wide) related with wall/soffit/ceiling joint(internal/external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members,aligning / centering arrangement and support plates as per ASTM B221-selfCharge.02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application,as well as horizontal covers for Soffits/ Ceilings both new and existing construction in Buildings/complexes/Structures 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 conform to ASTM 6063). The design			-	-		
		Ground Floor	Rmt	10.50	-	6,260.67		65,737.00

37	(DAR 2006- Page No- 249 item- 14)	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon			-	-		
		Ground Floor	Sqm	21.60	5,853.94	-	1,26,445.20	
		TERRACE	Sqm	16.80	5,853.94	-	98,346.27	
38	(DAR 2006- Page No- 247 item- 13)	Providing and fixing of partly fixed partly top hung and partly louvered windows of approved make to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyester paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and with all vertical and horizontal mullions are of 46x70 mm and fixed beadings are of 18x25 mm. Section for internal top and bottom frames in the louvered areas should be 18 x 40 mm. Top hung shutter should be of 46 x 46 mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle being made of high grade aluminium powder coated and with nylon receiver and gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The mullion caps and louvered-clips should be of glass filled nylon. The sections are to be cut to length,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by			-	-		
		Providing and fixing of 12mm thick Clear toughened Glass Frameless Door With Dormo Premium Fittings Dormo Premium (0411400)			-	-	-	
		Ground Floor	Sqm	9.72	5,885.10			
		Total					5,01,82,266.76	8,39,574.83

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT KUMBHARKHAN PUPS, BAGDOR, BELPADA, BOLANGIR, ODISHA					
A.	INTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
1	Providing and fixing Chlorinated Polyvinyl Chloride [CPVC] pipes SDR-11 conforming to IS:15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fitting including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per specification and direction of Engineer-in-charge.				
	20 mm PVC sch-80 pipes	Mtr	70.0	362.97	25,407.76
	25 mm PVC sch-80 pipes	Mtr	70.0	503.62	35,253.68
	32 mm PVC sch-80 pipes	Mtr	100.0	692.90	69,289.60
	50 mm PVC sch-80 pipes	Mtr	120.0	1417.77	1,70,132.40
				0.00	
2	Supplying all materials,labour and T&P for cutting holes through existing brick work including making good to the same in cement mortar(1:4) for taking G.I. pipes and fittings /P.V.C. pipes and fittings all complete as per specification.			0.00	
	250mm Thick	Each	38.0	79.30	3,013.25
				0.00	
3	Supplying all materials,labour and T&P for cutting holes in R.C.C. floors and roofs up to 19 cm. thick including for passing GI / PVC pipes and fittings etc. and repairing the holes after insertion of pipes etc. with cement concrete 1:2:4 including finishing complete to make it leak proof leak to the damages all complete as per specification and direction of the Engineer-in-charge.			0.00	
		Each	7.0	258.18	1,807.29
				0.00	
4	Supplying all materials,labour and T&P for cutting grooves in pucca floor and walls for taking G.I. pipes and fittings /P.V.C. pipes and fittings and making good to the damages all complete as per specification.			0.00	
		Mtr	70.0	325.68	22,797.60
				0.00	
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge.			0.00	
				0.00	
a)	Supplying all labour and T&P for fixing 2 in 1 bib cock of the following size as per specification all complete.			0.00	
		Each	16.0	1543.79	24,700.70
				0.00	
b)	Supplying all labour and T&P for fixing long body bib cock of the following size as per specification all complete.15mm Dia			0.00	
		Each	4.0	1272.28	5,089.10
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
c)	Supplying all labour and T&P for fixing CP Angular stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete. 15mm Dia			0	
		Each	28.0	1106.37	30,978.30
				0.00	
d)	Supplying fitting fixing of C.P Pillar Taps highpressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification. 15mm Dia			0	
		Each	17.0	1740.50	29,588.50
				0.00	
e)	Supplying all labour and T&P for fixing CP short body Bib cock [taps] polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete .			0	
		Each	3.0	1080.29	3,240.87
				0.00	
f)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete.) 25mm Dia	Each	6.0	810.78	4,864.67
				0.00	
g)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 32mm Dia	Each	4.0	1677.49	6,709.95
				0.00	
h)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 50mm Dia	Each	2.0	3687.62	7,375.24
				0.00	
i)	Providing and fixing C.P. Brass Extension Nipple 1 inch with extension piece as per direction of Engineer-in-charge.	Each	15.0	701.38	10,520.70
				0.00	
j)	Supplying fitting fixing of CP waste of the following noninal diameter for wash hand basin and sink as per specification.	Each	14.0	448.52	6,279.25
				0.00	
k)	Supplying all materials,labour and T&P for fixing CP Gratings of the following nominal diameter of outlet, of self cleaning design with sand cast iron screwed down or hinged grating with or without vent arm including cutting and making good to the walls and floors etc. all complete as per specification.			0	
		Each	38.0	1404.67	53,377.54
				0.00	
l)	Providing and fixing of approved make and model for Chrome plated Grab Bar,for Physically challenged toilet, The work shall include the cutting of walls or floors & making good, complete as per direction of Engineer in Charge.			0	
		Each	1.0	5177.18	5,177.18
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
6	Supplying fitting fixing of C.P health faucet high pressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification.			0.00	
	15mm dia CP Health Faucet of 1mtr long PVC tube			0	
		Each	8.0	955.56	7,644.51
				0.00	
7	Providing and fixing of Rational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701-1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts , fixing ball valve etc. including hoisting up to a height of 5.00metres above ground level and placing the tank to the required position etc. all complete as per specification and direction of the engineer-in-charge.			0.00	
i)	Overhead water storage tanks	Lit.	8000.0	16.04	1,28,329.63
	Extra over item no.3.1.8 for hoisting Rational moulded polyethylene cylindrical vertical water storage tanks of following sizes for every additional height of 5.00m. Or part thereof complete as per specification and direction of the engineer-in-charge.			0.00	
	Water storage tanks	Each	4.0	1472.64	5,890.56
8	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.			0.00	
	110mm diameter PVC SWR pipes	Mtr	105.0	461.73	48,482.07
	75mm diameter PVC SWR pipes	Mtr	90.0	286.62	25,795.98
	110mm PVC door Tee	Each	12.0	458.55	5,502.58
	75mm PVC door Tee	Each	5.0	345.74	1,728.70
	110mm PVC offset	Each	10.0	162.84	1,628.40
	110mm PVC door bend	Each	10.0	255.35	2,553.52
	75mm PVC door bend	Each	10.0	134.64	1,346.38
	110mm PVC plain shoe bend	Each	10.0	201.54	2,015.44
	75mm PVC plain shoe bend	Each	10.0	98.18	981.76
	110mm PVC vent cowl	Each	10.0	102.19	1,021.88
	75mm PVC vent cowl	Each	0.0	86.14	-
	110mm S-trap	Each	12.0	743.05	8,916.55
	110mm P-trap	Each	1.0	410.88	410.88
	110mm SWR Pipe Clip	Each	105.0	35.87	3,766.56
	75mm SWR Pipe Clip	Each	90.0	27.61	2,485.08
	110/75 mm Dia Reducer/Connector	Each	5.0	305.03	1,525.15
	90mm Nahani Trap	Each	33.0	171.81	5,669.66
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
9	Supplying all materials,labour and T&P for fixing of PVC 10 ltr capacity low level flushing cistern with manually controlled device[handle cover] confirming to IS 7231 with fittings and fixtures etc. all complete as per specification.			0.00	
	10 Liters capacity PVC cistern			0	
		Each	16.0	2306.07	36,897.18
				0.00	
10	Supplying all materials,labour and T&P for fixing water closet ,squatting pan(Indian type.W.C.pan or Orissa pan) confirming to IS 2556 : Part-3-2004 duly embedded in cement concrete (1:4:8) using 40mm.nominal size h.b.g. chips [including foot rest for I.W.C. and trap] all complete as per specificationand directon of theEngineer - in - charge.			0.00	
				0	
		Each	8.0	4528.49	36,227.89
				0.00	
11	Supplying all materials,labour and T&P for fixing in cement mortar (1:3) a pair of white vitereous china (250x130x30mm.) foot rest for squatting water closet. etc. all complete as per specificationand direction of the Engineer-in-charge.			0.00	
				0	
		Pair	8.0	661.86	5,294.90
				0.00	
12	Supplying all materials,labour and T&P for Supplying all materials,labour and T&P for fixing wash down water closet (European type W.C.) with integral "S" or "P" trap tothe floor with wooden plug and chromium plated screw including jointing the trap with soil pipe in cement mortar (1:1) etc. all complete as per specification.			0.00	
		Each	7.0	3747.21	26,230.46
				0.00	
13	Supplying all materials,labour and T&P for fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers all complete as per specification.			0.00	
		Each	7.0	1089.61	7,627.28
				0.00	
14	Supplying all materials,labour and T&P for fixing wash hand basin (SS Made) with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	12.0	5427.17	65,126.09
				0.00	
15	Supplying all materials,labour and T&P for fixing corner wash hand basin with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	4.0	3146.59	12,586.35
				0.00	

SI. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
16	Supplying all materials,labour and T&P for fixing Pedestal for wash hand basin complete recessed at the back for the receiptionof pipe and fittings etc. all complete as per specification including cost of pedestal for wash basin			0.00	
				0	
		Each	4.0	3093.84	12,375.37
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
17	Supplying all materials,labour and T&P for fixing of 600x450 bevelled edge mirror of superior glass mounted on 6mm thick ac sheet or ply wood sheet and fixed to wooden plugs with chromium plated brass screws and washers etc. All complete as per specification .			0	
	600mmx450mm size B.E.mirror			0	
		Each	12.0	2557.89	30,694.63
				0.00	
18	Supplying all materials,labour and T&P for fixing standard size glass self with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws and washers etc. all complete as per specification.			0.00	
		Each	13.0	946.01	12,298.08
				0.00	
19	Supplying all materials,labour and T&P for fixing standard size C. P. towel rail fixed with chromium plated brass brackets fixed to wooden plugs with cromium plated brass screws complete as per specification.			0.00	
				0	
		Each	8.0	1274.52	10,196.14
				0.00	
20	Supplying all materials,labour and T&P for fixing of cromium plated brass soap dish complete with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws as per specification.			0.00	
				0	
		Each	16.0	418.19	6,691.07
				0.00	
21	Supplying all materials,labour and T&P for fixing standard size C. P. towel ring fixed fixed to wooden plugs with cromium plated brass screws complete as per specification.	Nos	16.0	645.22	10,323.58
				0	
22	Supplying all materials,labour and T&P for fixing of liquid soap container - glass container or plastic container with chromium plated brass lid and brackets fixed to wooden plugs with chromium plated brass screws as per specification.	Nos	4.0	2086.83	8,347.32
				0.00	
23	Supplying all materials,labour and T&P for fixing stainless steel AISI 304 [18/8] Kitchen sink as per IS 13983 with cast iron bracet and stainless steel plug including painting of fittings and brackets ,cutting and making good to the walls etc. all as per specification including cost of sink with all accessories.			0	
		Nos	2.0	7267.86	14,535.71
				0.00	
24	Supplying all labour and T&P for fixing CP Concealed stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete.	Each	8.0	1326.32	10,610.56
				0.00	
25	Supplying all materials,labour and T&P for fixing Porcelain Urinal respectively with waste pipe by means of white lead mixed with chopped hemp etc. all complete as per specification.	Each	8.0	8961.16	71,689.25

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
				0.00	
26	Fixing standard size Chromium Plated brass or glazed porcelain Toilet paper holder fixed to woden plugs with Chromium Plated brass screws complete as per specification and direction of the Engineer in charge.	Each	2.0	1404.55	2,809.11
				0.00	
27	Providing and fixing approved quality E.W.C Matrix Set with grab bar set for Handicap (Accessible) Toilet consisting of stainless steel grab bars and support fittings required for differently-abled users, conforming to universal accessibility standards. The set shall include wall-mounted horizontal and vertical support bars near WC and wash basin area, made of SS 304 grade stainless steel with satin/matt finish, complete with necessary brackets, anchor fasteners, screws, bends, end caps, and accessories. The arrangement shall provide safe support and ease of movement for wheelchair users and physically challenged persons. Installation shall be done in proper alignment, level, and position as per approved drawings and accessibility guidelines, complete in all respects as per the direction of the Engineer in charge.	Each	1.0	94164.00	94,164.00

	Total Rs.				12,46,023.84

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT KUMBHARKHAN PUPS, BAGDOR, BELPADA, BOLANGIR, ODISHA					
B.	EXTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
1	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap, Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per aproved drawing, specification and direction of Engineer-in-charge.				
	250mmx250mm with RCC cover	Each	10.00	2009.89	20,098.94
				0.00	
2	Constructing inspection chamber with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			0.00	
	Inspection Chamber inside size 750mm x 750mm and 450mm	Each	8.00	15766.10	1,26,128.78
				0.00	
3	Supplying all materials,labour and T&P for laying in trenches unplasticized PVC pipes and specials of the following outside dia. for all classes including jointing with approved solvent cement by non-heat application method including testing as per specification and direction of Engineer-in-charge etc. all complete. [including earth work and cost of pipes.			0.00	
a)	110 mm dia U-PVC pipes Class-3	mtr	60.00	1173.51	70,410.60
b)	160 mm dia U-PVC pipes Class-3	mtr	30.00	2500.07	75,001.98
				0.00	
4	Constructing manholes with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			0.00	
a)	Plain Manholes inside size 900mm x 800mm and 450mm deep	each	8.00	21061.23	1,68,489.84
				0.00	
5	Construction of 50 Users Septic Tank (2 No.s)			0.00	
a)-i	Earth work in excavation in foundation trenches, column foundation, pit, etc in all kind of soil including moorum stony earth and earth mixed with boulders except sheet rock and boulders not requiring blasting including dressing of sides and levelling the bed up to the required depth and depositing the excavated materials away from the work site with initial lead of 50 mtr and all lifts, including shoring, shuttering & dewatering (if required) with cost of labour, labour cess, hire & running charges of all machineries, sundries & T&P required for the work complete as directed by the Engineer in charge.	Cum	56.88	433.73	24,670.71
a)-ii	Above 1.5mt. Depth	Cum	47.57	465.06	22,122.05
				0.00	
b)	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.	Cum	70.71	241.02	17,043.15
				0.00	
c)	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth, well watered and compact, top surface dressed and levelled to proper level and gradient including cost of all materials, conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the dirrection of Engineer-in-charge.	Cum	2.96	955.33	2,825.85
				0.00	

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
d)	Providing and lying Plain Cement Concrete of proportion (1:4:8) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, taxes, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	2.96	7741.05	22,898.02
				0.00	
e)	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	3.92	8273.22	32,464.13
				0.00	
f)	Providing 12mm thick cement plaster in cement mortar (1:4) with neat cement punning including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, taxes, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.	Sqm	15.84	294.91	4,671.38
				0.00	
g)	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance, loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement			0.00	
i.	Base	Cum	5.47	9395.50	51,355.79
ii.	Slab	Cum	4.64	17441.90	81,000.18
iii.	Wall	Cum	16.50	16445.36	2,71,348.41
h)	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).	Qtl.	34.95	13275.28	4,63,998.76
				0.00	
i)	Supplying all materials, labour, T&P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	4.00	188.92	755.67
				0.00	
j)	Supplying all materials, labour, T&P and laying in trenches (to level or slope) and jointing with provision of stiff mixture of cement mortar in proportion of 1:1 for salt glazed stoneware pipes, Grade—A of the following internal diameters including testing of pipes and joints complete. 110mm diameter UPC pipe	Mtr	12.00	1173.51	14,082.12
				0.00	
6	Constructing RCC soak way pit with R.C.C top slab in (1:2:4) mix, inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, complete as per specification.			0.00	
a)	RCC soak way pit of size 1.5m x 1.8m deep	each	8.00	11890.15	95,121.22
				0.00	
	Borewell			0.00	

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
7	Supplying all materials,labour T&P and providing fitting submersible pump with squarrel cage inspection type submerssible type submersible electric motor to run on 3 phase/1 phase line voltage rangingfrom 320 volt to 450 volt conforming to IS :8034/89			0.00	
a	One no. 3 phase 2 H.P 3 stage head range 30 to 54 mtr. Discharge 155 to 200 LMP with outlate dia 32mm.	Set	1	23423.00	23,423.00
b	2.5 Sq mm cable.	Mtr	70	181.72	12,720.40
c	40mm dia steel short piece.	Each	2	238.36	476.72
d	Steel rope wit cover.	Mtr	70	41.77	2,924.04
e	Well Cap.	Each	1	238.36	238.36
f	50mm size CI bracket.	Each	1	143.02	143.02
g	20mm dia rigid HDPE pipes.	Mtr	70	117.76	8,243.48
h	Boring up to 30 mtr.	Mtr	30	1050.55	31,516.62
i	Boring work Above 30 mtr.	Mtr	50	1050.55	52,527.70
j	8" ASTM pipe SCH-80	Mtr	70	2702.74	1,89,192.00
k	Delivery	Set	1	2360.00	2,360.00
l	Labour charges for lowering of summerssible pumpset with pipes and cables etc with testing and commissioning at site.	Mtr	70	147.50	10,325.00

	Total Rs.				18,98,577.90

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT KUMBHARKHAN PUPS, BAGDOR, BELPADA, BOLANGIR, ODISHA					
INTERNAL ELECTRICAL WORK FOR SCHOOL BUILDING					
Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	INTERNAL WIRING				
1	Recessed wiring to light point / first light of group control/ call bell point/ exhaust fan point /wall fan point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6 Amp, 250 V clip in type switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge.				
	Group C	Nos.	150	1,497.42	2,24,613.00
2	Recessed wiring to secondary light point looped from primary light point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including 3 plate ISI marked Ceiling rose with all accessories & connection as per direction of Engineer-in-charge. Average Length 2 mtr.	Nos.	55	564.04	31,022.20
				-	
3	Recessed wiring to ceiling fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch,Stepped type Moudular Regulator, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. Group c	Nos.	65	1,964.70	1,27,705.50
				-	
4	Recessed wiring to Twin control light point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6Amp, 250 V clip in type 2way switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer-in-charge.Group C	Nos.	10	2,017.80	20,178.00
				-	
5	Recessed wiring for 5 / 6 amp socket outlet with 6Amp, 250 V clip in type modular switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection on same switch board as per direction of Engineer-in-charge.	Nos.	53	682.04	36,148.12
				-	
6	Recessed wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection on separate board as per direction of Engineer-in-charge.Group C	Nos.	5	1,674.42	8,372.10
				-	
7	Recessed wiring for 2 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of Engineer-in-charge.	Nos.	35	1,251.98	43,819.30
				-	
8	Recessed wiring for 6 pin 16 amp socket outlet with 16Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection as per direction of Engineer-in-charge.	Nos.	20	1,083.24	21,664.80
				-	
9	Recessed wiring for A.C/ Power socket outlet with industrial type socket outlet, plug top and metal chained cover in sheet steel enclosure ,20A/32A SP MCB including all accesories and connection as per direction of Engineer-in-charge.	Nos.	5	1,293.28	6,466.40
10	Recessed wiring to exhaust fan/Wall Fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge.Group C	Nos.	22	1,497.42	32,943.24

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
11	Call bell point	Nos.	3	1,689.76	5,069.28
12	Recessed wiring for 3 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of Engineer-in-charge.	Nos.	1	1,405.38	1,405.38
				-	-----
	SUB TOTAL			-	5,59,407.32
	SUBMAIN			-	
13	Recessed wiring to submain in 4 x 10 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	75	579.38	43,453.50
				-	
14	Recessed wiring to submain in 4 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	395.30	59,295.00
				-	
15	Recessed wiring to submain in 2 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 25 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	20	280.84	5,616.80
				-	
16	Recessed wiring to submain in 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	750	240.72	1,80,540.00
				-	
17	Recessed wiring to submain in 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	1850	219.48	4,06,038.00
				-	
18	Recessed wiring to submain in 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	202.96	30,444.00
				-	-----
	SUB TOTAL			-	7,25,387.30
				-	

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
19	DB			-	
	Supply and fixing of following way three pole and neutral, sheet steel, MCB distribution, 415 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic cover for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required with necessary MCB , RCCB / ISOLATORS as required. Note for MCB- There should be colour indication for tripping On ,Off & Trip/There should be mid trip position for toggles for electrical fault conditions.			-	
a)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For PDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-63A FP MCB (10KA) Outgoings-10/20A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
b)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For LDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
c)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For UPS DB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
	SUB TOTAL			-	1,50,198.66
	CABLE			-	
20	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 3.5core 150 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	200	2,289.20	4,57,840.00
21	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 3.5core 95 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	50	1,616.60	80,830.00
22	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 4 core 16 sq.mm Aluminium on surface as required.	Rmt	20	634.84	12,696.80
	SUB TOTAL			-	5,51,366.80
	END TERMINATION			-	
	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum cable of 1.1 KV as required.			-	
23	3.5C x 150 sq.mm	set	2	1,239.00	2,478.00
24	3.5C x 95 sq.mm	set	2	1,121.00	2,242.00
25	4C x 16 sq.mm	set	2	649.00	1,298.00
	SUB TOTAL			-	6,018.00
	PANEL			-	
	Supply, installation, testing & commissioning of floor mounting front operated front access extensible type cubicle panel totally enclosed, dust and vermin proof with IP-42 /55 protection with hinged and lockable doors. CRCA sheets including interconnections, tinned copper crimping lugs, bonding to earth and painting suitable for use at 415 V, 3phase 4 wire 50 Hz system, and to withstand a fault level of 35 KA symmetrical for 1 sec at 415 V complete as per specifications, as required and as below : All switchboards shall have provision for entry of cables from the bottom as required. All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The bus bars shall be insulated with heat shrinkable sleeves. SMC/DMC shrouds and busbar supports shall be used with Indication lamp, C.T , Digital Voltmeter, Digital Ammeter and control fuse etc. complete.			-	
26	MAIN PANEL with 150A 4P MCCB 36KA -1 No as incomer, 63A 4P MCB 10KA 4Nos, 100A 4P Change over Switch 1Nos, 40A 4P MCB 10KA-9Nos, 32A DP MCB 10KA-3Nos with E.C Busbars with 4nos 65KA VSD along with 4nos 32A SP MCB.	set	1	1,91,504.56	1,91,504.56

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	SUB TOTAL			-	1,91,504.56
				-	
	EARTHING			-	
27	Earthing with copper earth plate 600 mm x 600mm x 3.15 mm thick ISI marked including accessories and providing masonry with cover plate having loccking arrangement and watering pipe etc with charcoal and salt as required.	Set	4	16,233.26	64,933.04
28	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	Rmt	15	860.22	12,903.30
29	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked on surface or in recess for connection etc as required.	Rmt	50	923.94	46,197.00
30	Providing and fixing 8 SWG CU wire on surface or in recess for loop earthing as required.	Rmt	50	105.02	5,251.00
	SUB TOTAL			-	1,29,284.34
				-	
	FIXTURE			-	
	Supply, installation, testing and Commissioning of pre-wired fluorescent fitting / compact fluorescent fitting /LED fitting of all sizes complete with all accessories and lamp etc. directly on ceiling /wall or recessed in false ceiling , including connection with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor and earthing as required.			-	
31	Ceiling mounted indoor type batten type LED Luminaire with LED Lamp	Nos	130	554.60	72,098.00
32	Ceiling/ Wall mounted type BULK HEAD Luminaire	Nos	10	1,267.32	12,673.20
33	Supply, Installation, testing and commissioning of 10W Mirror Light	Nos	15	364.62	5,469.30
34	Supply, Installation, Testing and Commissioning of ceiling fan 1200mm sweep, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FR PVC insulated single core multiatrand copper conductors as required.BLDC FAN.	Nos	65	4,659.82	3,02,888.30
35	Supply, Installation, testing and commissioning of exhaust fan of 250 mm PLASTIC Exhaust Fan (Vntilation Fan) complete, connection, etc as required.250MM CRISP AIR EXH FAN.	Nos	17	2,109.84	35,867.28
36	Supply & fixing of 18W LED Down Light (S/R) with all accessories.	Nos	50	1,250.80	62,540.00
37	Supply & fixing of LED 36w 2'x2' Surface/Recessed Mounted Light as required .	Nos	15	2,269.14	34,037.10
38	Supply & fixing of 6W LED Down Light (S/R) with all accessories.	Nos	10	636.02	6,360.20
39	Supply, Installation, testing and commissioning of wall fan of 400 mm sweep as required.Model-400mm STRIKER HI SPEED.	Nos	5	3,645.02	18,225.10
	SUB TOTAL			-	5,50,158.48
	PERFORATED CABLE TRAY			-	
	Supply and installation of Pregalvanised Perforated type cable trays without cover. The rate shall include bends, Tees, all supporting brackets, anchor fasteners, screws, bolts, nuts etc., including painting of cable trays. Thickness of sheet steel shall be 2 mm. Support sizes			-	
40	Size of Cable Tray :300 mm x 50 mm	Rmtr	10	916.86	9,168.60
41	Size of Cable Tray :150 mm x 50 mm	Rmtr	40	712.72	28,508.80
	SUB TOTAL			-	37,677.40

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
				-	
	TV /TEL & DATA			-	
42	Supplying and fixing of clip in type modular Telephone socket ISI marked mounted on G.I modular box with face plate & cover of suitable size ,including all accesories and connection as per direction of Engineer in Charge.	Nos	10	450.76	4,507.60
43	Supplying and fixing of clip in type modular T.V. antenna socket ISI marked on mounted on G.I modular box with face plate & cover of suitable size , including all accesories and connection as per direction of Engineer in Charge.	Nos	10	462.56	4,625.60
44	Supplying and drawing 4 pair, 0.5 sq.mm FR PVC insulated coper conductor, unarmoured telephone cable in existing surface / recessed PVC conduit as required.	Rmt	250	53.10	13,275.00
45	Recessed wiring to television point with cable RG-6 grade, 0.7 mm solid copper conductor PE insulated shielded with fine tined copper braid and protected with FR PVC sheath in in existing surface / recessed PVC conduit as required as per direction of Engineer in Charge.	Rmt	150	47.20	7,080.00
46	Supplying and fixing of following sizes PVC conduit along with accessories in recessed wiring including cutting the wall and making good the same in case of recessed conduit as required.			-	
	20mm	Rmt	250	121.54	30,385.00
47	Supplying and fixing of 16 / 18 SWG metal box of 200 mm x 150 mm x 60 mm deep on surface / recess with suitable size of phenolic laminated sheet cover in front including cutting the wall and making good the same in case of recessed conduit as required. (Tel junction Box)	Nos	1	212.40	212.40
48	Supplying & Commissioning of Telephone Hand Set.	Nos	10	866.12	8,661.20
49	Supplying & installation of 100 pair KRONE make moudles with locking & key arrangements fabricated with MS sheet & powder coated to be fixed on concealed manner incl. good the damages.	set	1	2,950.00	2,950.00
50	SITC of 4 pair Cat6 23 awg U/UTP LSZH Cable in the existing surface/ recessed steel/ PVC conduit as required: The 4 pair Unshielded Twisted Pair cable shall be UL Listed,exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E , 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must,Insertion Loss of 32.8 db/100m at 250 MHz ,Cable should support operating temperature from -20° to +70°C Cable support Conductor Resistance ≤ 9.38 Ω/100m Max., Cable support Delay Skew: < 45 ns/100m, Operating Voltage: 72V , Impedance: 100 ± 15 Ω @100 MHz. and Propagation Delay @250 MHz : 536 ns/100m ETL Verified 4 connector channel performance up to	Mtr	750	97.94	73,455.00
51	Supply & fixing of RJ-45Jack of Category 6 with Dual-port British-style Face plate 86x86 mm with Curveture and wall mount box.	Nos	20	1,117.46	22,349.20
	SUB TOTAL				1,67,501.00

	TOTAL INTERNAL ELECTRICAL WORK=				30,68,503.86

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT KURULUBAHAL UPS, CHANABAHAL , BOLANGIR, ODISHA

BILL OF QUANTITIES (CIVIL WORK)

Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
1	Item No. 16 & Page No. 19	Excavation, loading, unloading and carriage by mechanical means of all kinds of soil, including stoney earth, gravel and moorum etc interspread with boulders upto 1/2 cum size with all lifts and delifts including trimming of slopes and bed to design section and depositing the the excavated materials away from work site as per the specification and as directed by the Engineer- in-charge within an initial lead of 1km from the place of excavation complete.						
		Ground Floor	Cum	2645.49	117.41		3,10,606.98	
		C.WALL	Cum	136.79	117.41		16,060.51	
2	Ref:AOR(ODisha)/I.Earth Work-14,Page No-8	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	Cum	881.83	204.26		1,80,120.83	
3	Item No. 16 & Page No. 19	Filling the Foundation, Sides of Foundation, etc. in mechanical means with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of machinary, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-			
		Ground Floor	Cum	1763.66	117.41		2,07,071.32	
		C.WALL	Cum	91.19	117.41		10,706.62	
4		Supplying, diluting and preparing chemical emulsion like Imidacloprid 30.5 % SC or other chemicals approved by Central Insecticides Board or as directed by the manufacturer and spraying the mixture uniformly by sprayer as Pre/Post-Constructional Anti-termite Treatment confirming to IS 6313 (Part-II) including the cost of all materials, cost of all labour, conveyance, loading, unloading, T&P, etc. all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	sqm	1818.06	-	123.31		2,24,184.98
5	Ref:AOR(ODisha)/I.Earth Work-15,Page No-8	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth , well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the dirrection of Engineer-in-charge.			-	-	-	
		Ground Floor	Cum	177.27	1,392.05	-	2,46,767.99	
		C.WALL	Cum	6.62	1,392.05	-	9,215.34	
6	Ref:AOR(ODisha)/III-Concrete -3,Page No-43	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.			-	-	-	
		Ground Floor	Cum	428.91	7,320.60	-	31,39,879.40	
		C.WALL	Cum	11.63	7,320.60	-	85,138.60	
		RCC WORK			-	-	-	

7	Ref:AOR(O disha)/IV- RCC-10- iv,Page No- 54	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance,loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement.			-	-	-	
		(A)R.C.C. foundation and footing bases of columns mass concrete pre-cast slab etc.			-	-	-	
		Ground Floor	Cum	343.45	8,252.33	-	28,34,262.74	
		C.WALL	Cum	9.00	8,252.33	-	74,270.97	
		R.C.C. Plinth Beam			-	-	-	
		Ground Floor	Cum	135.85	9,284.12	-	12,61,247.97	
		C.WALL	Cum	5.63	9,284.12	-	52,269.61	
		(B)R.C.C. Column &cRoof Beam			-	-	-	
		Ground Floor	Cum	269.33	19,324.03	-	52,04,542.08	
		C.WALL	Cum	3.09	19,324.03	-	59,711.27	
		Terrace	Cum	34.40	21,774.07	-	7,49,027.94	
		(C) R.C.C. Slab			-	-	-	
		Ground Floor	Cum	242.35	15,071.31	-	36,52,532.95	
		C.WALL	Cum	0.42	15,071.31	-	6,329.95	
		Terrace	Cum	13.65	16,670.92	-	2,27,558.09	
		(D)R.C.C. Staircase			-	-	-	
		Ground Floor	Cum	10.09	19,161.43	-	1,93,338.83	
		(E)R.C.C. lintel			-	-	-	
		Ground Floor	Cum	33.16	17,354.50	-	5,75,475.09	
		Terrace	Cum	0.97	19,410.76	-	18,828.44	
		(F)R.C.C. Fins			-	-	-	
		Ground Floor	Cum	17.02	14,226.67	-	2,42,137.92	
8	Ref:AOR(O disha)/IV- RCC- 9,Page No- 52	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).			-	-	-	
		Ground Floor	Qntl	977.97	11,250.24	-	1,10,02,395.26	
		C.WALL	Qntl	22.54	11,250.24	-	2,53,580.36	
		Terrace	Qntl	76.47	11,290.44	-	8,63,379.99	
		BRICK WORK			-	-	-	
9	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying Brick Masonry work in Foundation & Plinth using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge.			-	-	-	
		Ground Floor	Cum	194.50	7,076.58	-	13,76,394.42	
		C.WALL	Cum	17.34	7,076.58	-	1,22,707.86	

10	Ref:AOR(O disha)/VI- Brick Work- 02,Page No- 71	Providing and laying Brick masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:4) for Half Brick Masonry Wall with provisions for 2 nos 6mm dia MS bar at each 4th layer after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge. (Excluding Cost Of Steel Reinforcement).			-	-	-	
		Ground Floor	Cum	34.41	7,370.99	-	2,53,635.70	
11	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying of Full Brick Masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties.			-	-	-	
		Ground Floor	Cum	453.25	7,115.87	-	32,25,268.98	
		C.WALL	Cum	25.88	7,115.87	-	1,84,158.77	
		Terrace	Cum	158.97	7,571.35	-	12,03,617.83	
12	Ref:AOR(O disha)/X- Plastering- 27,Page No- 109	Providing 6 mm thick Cement Plaster in Cement Mortar of (1:4) to Ceilings of Roof Slabs, Stairs, Landings, Chajja, Shelves, Columns, Beams and Lofts etc. including roughening, scraping and cleaning and finishing the plastered surface smooth using wooden floats only to proper plumbs and level, making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading and royalties, all labour, scaffolding, watering and curing , sundries, T&P etc. complete as per direction of the Engineer-in-charge			-	-	-	
		Ground Floor	Sqm	83.59	258.54	-	21,611.19	
		C.WALL	Sqm	64.71	258.54	-	16,729.99	
13	Ref:AOR(O disha)/X- Plastering- 16,Page No- 106	Providing 12mm thick cement plaster in cement mortar (1:4) to the surface of half brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.			-	-	-	
		Ground Floor	Sqm	2147.18	249.33	-	5,35,364.98	
		C.WALL	Sqm	3209.45	255.00	-	8,18,403.33	
14	Ref:AOR(O disha)/X- Plastering- 14,Page No- 105	Providing 16mm thick cement plaster in cement mortar (1:6) to the surfaces of brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.(inner side)			-	-	-	
		Ground Floor	Sqm	3559.07	337.83	-	12,02,374.85	
		C.WALL	Sqm	202.50	337.83	-	68,411.39	
		C.WALL	Sqm	170.16	346.33	-	58,931.51	

15	CCE LEVEL COMMITTEE MEETING HELD ON 12.02.2024 AT 11 AM	Waterproofing application:- Providing and application of two component polymer odified flexible cementitious waterproofing coating at a thickness of 1.5-2.5 mm The membrane hould have Elongation equal or more than: 30% etc.as per direction of E.I.C (For longer span, in errace panel of 4m*4m should be done by roovecutting, and filling with PU Sealant) Crack Bridging ability: Up to 1 mm Adhesive strength: 1.0 N/mm² @ 28d Tensile elongation: 60% @ 20°C Shore A Hardness >85 (between 3-7 days)			-	-	-		
		Terrace	Sqm	1874.36	578.20	-	-	10,83,754.95	
		FINISHING WORK			-	-	-		
16	Ref: OPWD/Revised Analysis of Rate/Ch-XIX-SI. No.2	Supplying and finishing the plastered surface of wall using 2 Coats of Cement Based Wall Putty (Water Based) of approved make and quality and finished smooth and even surface to receive the paint including the cost of all materials, cost of all labour, conveyance, taxes, loading, unloading, scaffolding, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-	-	-		
		Interior Wall Putty			-	-	-		
		Ground Floor	Sqm	5096.62	76.11	-	-	3,87,903.75	
		C.WALL	Sqm	170.16	78.35	-	-	13,332.38	
17	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Providing and applying 2 coats plastic emulsion paint of approved quality and shade over a coat of wall primer of approved quality to surfaces (interior) including thoroughly brushing the surface free from foreign materials, sand papering smooth the intermediate coats, providing necessary putty & primer including of all materials, labour, conveyance,royalties, scaffolding, watering, curing, sundries, tools and plants etc as per the direction of Engineer-in-charge. (colour & shade to be approved before procurment & use)			-	-	-		
		Ground Floor	Sqm	5168.33	229.04	-	-	11,83,743.97	
		First Floor	Sqm	267.94	234.11	-	-	62,727.97	
18	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Providing and Painting with Two Coats Weather Coat Paint (exterior grade) of approved make & shade manufactured by reputed manufacturer make an even finished surface over a coat of water bound cement primer and wall putty in all heights with all scaffolding and staging charges including cost, conveyance, cost of all labours, T & P, sundries etc. as required for the work complete.			-	-	-		
		Ground Floor	Sqm	2446.95	219.72	-	-	5,37,634.07	
		TERRACE	Sqm	267.21	219.72	-	-	58,710.31	
		First Floor	Sqm	1350.36	228.09	-	-	3,08,009.01	
19	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Painting two coats of synthetic enamel paint over Iron Works as per approved shade of approved quality over a coat of primer, sand papering, polishing the surface including cost, conveyance,labour, T&P, scaffolding etc. as required for the work complete as per direction of Engineer-in-charge. (The paints and primer are to be approved before procurement and use)			-	-	-		
		Ground Floor	Sqm	201.09	317.42	-	-	63,829.99	
		C.WALL	Sqm	44.41	317.42	-	-	14,096.62	
		First Floor	Sqm	25.62	323.20	-	-	8,280.44	
20	Ref: Revised Analysis of Rate (Ch-XIX/SI. No./1 -b)	Providing and laying of 600 mm x 600 mm Vitrified Floor Tiles Matt Finish Anti Skid Plain Series confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-		
		Ground Floor	Sqm	775.10	1,360.07	-	-	10,54,188.71	

21	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying of Vitrified Tiles Matt Finish Plain Series in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 600mm x 600mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	73.80	1,517.83	-	1,12,016.15	
22	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mmx300mm antiskid ceramic floor Tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	82.32	1,305.55	-	1,07,473.04	
23	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Ceramic wall tile With Epoxy Grout For Toilet Providing and laying of Glazed Ceramic Wall Tiles in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 300mm x 450mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	318.76	1,455.41	-	4,63,927.13	
24	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing & laying Heavy Duty Vetrified Floor Tile Matt Finish Rustic Series having thickness 10mm confirming to IS 4457 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces with oxlaic acid, machine grinding, mirror polishing including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	662.15	1,467.68	-	9,71,826.96	

25	Ref: OPWD/Analysis of Rate/Page No.90	Providing & laying Heavy Duty Vetrified Tile Matt Finish Rustic Series having thickness 10mm in dado/skirting confirming to IS : 15622 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 12mm thick cement mortar (1:3) (1 cement: 3 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	75.83	1,625.57	-	1,23,266.82	
26	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mm x 300mm Chequered Tiles. tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	136.51	816.91	-	1,11,516.93	
27		Providing & laying granite stone flooring in Floors and landing using 19-20 mm thick granite stone slab of approved quality, colour and size above 0.4 Sqm as per IS 14223 laid over an under layer of 20 mm thick cement mortar (1:4) (1 cement: 4 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of granite tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	9.45	3,722.55	-	35,178.06	
		BUILT IN JOINERIES			-	-	-	

28	Ref: DAR-SH-26.86.6	Providing and fixing 65mm X 125mm factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceasetory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.			-	-	-	
		Ground Floor	Rmt	99.75	1,398.77	-	1,39,527.51	
29	Ref: DAR-SH-26.88.1 2023	Providing and fixing of 30 mm thick factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with SS 304 Grade Matt Finished 3 Nos butt hinges of Size 100mm X 60mm X 2.5mm, 1 No 250mm X 16mm Aldrop, 1 No 150mm x 16mm tower bolt, 2 No 150mm length Door handle with necessary full body threaded star headed counter sunk S.S screws, floor/hanging door stopper & hydraulic door closer as required and mentioned in architectural drawing all as per direction of Engineer-In- Charge.			-	-	-	
		Ground Floor	Sqm	139.28	6,179.07	-	8,60,620.87	
30		Supplying and fixing of Powder coated 50-60 microns approved colour of aluminium 40mm Casement series Door Unit with suitable aluminium extrude profiles. the system is designed to accommodate 12mm clear toughened glass. the rate quoted inclusive of hardwares like antilift, roller, Espag lock cum handle, epdm gaskets, T mullion, Fly Mullion, bottom adopter, mid transom, glazing clip for 12 mm glass felt along with all accessories etc complete. The gap between the wall and window will be filled with silicon weather sealant in the outer side. including the cost of all materials ,hardware fittings, cost of all labour, conveyance, loading, un loading, T&P, etc, complete as per the direction of Engineer-in Charge.(As per Proceeding of C.C.E. Level committee meeting held on dt. 12.02.2024 at 11.30 A.M.)			-	-	-	
		Ground Floor	Sqm	4.32	-	14,664.80	63,351.95	
31	Item No. 16 & Page No. 19	Supplying, fitting and fixing of M.S. grill ,Grated doors etc made out of M.S. flats/square bars as per drawing and design fixed in position to proper plumb with cost, conveyance, Materials, labour, T&P etc. required for the complete in all respect as per the direction of Engineer-in-Charge.			-	-	-	
		Ground Floor	Kg	8202.65	117.19	-	9,61,234.10	
		C.WALL	Kg	3683.16	117.19	-	4,31,614.05	
		Terrace	Kg	946.80	117.19	-	1,10,951.52	

32		Supplying, fabricating & fixing of polished stainless steel (304 grade) items made out of pipes, angles, flats, plates, hollow tube, square pipe bracing as per approved design and specification, buffing, polishing etc. with cost, conveyance, labour in railing, parapet, staircase, space frame etc required for the work complete in all respect as per direction of Engineer-in-charge.			-	-	-	
		Ground Floor	Kg	468.01	405.68	-	1,89,864.17	
33	SOR Sl. No 12 Page- 235	Supplying , fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame, shutters and all fitting and fixtures.			-	-	-	
		Ground Floor	Sqm	147.15	5,853.94	-	8,61,407.95	
34		Providing and fixing barbed wire fencing on R.C.C. (1:2:4) fencing posts with chips 1.68M long 13cm x 13cm at bottom and 8cm x 8cm at top and 30cm 30cm x 8 cm base finished smooth by means of staples and staining hooks by means of tying with G.I wire and including cost of barbed wire, staples, hooks, tying wires and labour, post etc complete in all respect as per the direction of the Engineer-in-charge.			-	-		
		Length of Barbed Fencing	Rmt	300.00	1,058.38	-	3,17,515.18	
35	Market Rate	Supplying, Providing and installing of modified flexible polyolefin (FPO) membrane system (Water Proofing tape) which shall be designed to be bonded over expansion and movement joints upto 200 mm in structures to prevent the passage of water having elongation at break more than 600%, maximum permissible permanent elongation shall not less than 20% and having resistance to aggressive conditions like ground water, soil, cement water, bitumen and bitumen emulsion coatings .It is bonded in position using two part epoxy adhesive and consumption of adhesive shall be as per manufacturers direction after proper fixing of the necessary back up materials as specified and directed by the EIC.The item rate shall be including all materials, all kinds of labours, T & P, machineries, lead and lift, mathadi Charges, curing, wastages,consumables, cleaning, shifting of debris outside the premises, surface preparation etc complete as per design, drawing & direction of EIC.			-	-		
		Ground Floor	Rmt	154.00	-	3,157.80		4,86,300.89
36	CPWD	Providing and fixing of expansion joint system (150 mm-200 mm wide) related with wall/soffit/ceiling joint(internal/external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members,aligning / centering arrangement and support plates as per ASTM B221-selfCharge.02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application,as well as horizontal covers for Soffits/ Ceilings both new and existing construction in Buildings/complexes/Structures 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 conform to ASTM 6063). The design			-	-		
		Ground Floor	Rmt	10.50	-	6,260.67		65,737.00

37	(DAR 2006- Page No- 249 item- 14)	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon			-	-		
		Ground Floor	Sqm	21.60	5,853.94	-	1,26,445.20	
		TERRACE	Sqm	16.80	5,853.94	-	98,346.27	
38	(DAR 2006- Page No- 247 item- 13)	Providing and fixing of partly fixed partly top hung and partly louvered windows of approved make to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyester paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and with all vertical and horizontal mullions are of 46x70 mm and fixed beadings are of 18x25 mm. Section for internal top and bottom frames in the louvered areas should be 18 x 40 mm. Top hung shutter should be of 46 x 46 mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle being made of high grade aluminium powder coated and with nylon receiver and gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The mullion caps and louvered-clips should be of glass filled nylon. The sections are to be cut to length,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by			-	-		
		Providing and fixing of 12mm thick Clear toughened Glass Frameless Door With Dormo Premium Fittings Dormo Premium (0411100)			-	-	-	
		Ground Floor	Sqm	9.72	5,885.10	-		
		Total					5,13,63,011.93	8,39,574.83

**CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT KURULUBAHAL UPS, CHANABAHAL ,
BOLANGIR,ODISHA**

A.	INTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
1	Providing and fixing Chlorinated Polyvinyl Chloride [CPVC] pipes SDR-11 conforming to IS:15778, having thermal stability for hot & cold water supply , including all CPVC plain & brass threaded fitting including fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes and fittings with one stp CPVC solvent cement and testing of joints complete as per specification and direction of Engineer-in-charge.				
	20 mm PVC sch-80 pipes	Mtr	70.0	362.97	25,407.76
	25 mm PVC sch-80 pipes	Mtr	70.0	503.62	35,253.68
	32 mm PVC sch-80 pipes	Mtr	100.0	692.90	69,289.60
	50 mm PVC sch-80 pipes	Mtr	120.0	1417.77	1,70,132.40
				0.00	
2	Supplying all materials,labour and T&P for cutting holes through existing brick work including making good to the same in cement mortar(1:4) for taking G.I. pipes and fittings /P.V.C. pipes and fittings all complete as per specification.			0.00	
	250mm Thick	Each	38.0	81.18	3,084.99
				0.00	
3	Supplying all materials,labour and T&P for cutting holes in R.C.C. floors and roofs up to 19 cm. thick including for passing GI / PVC pipes and fittings etc. and repairing the holes after insertion of pipes etc. with cement concrete 1:2:4 including finishing complete to make it leak proof leak to the damages all complete as per specification and direction of the Engineer-in-charge.			0.00	
		Each	7.0	259.01	1,813.07
				0.00	
4	Supplying all materials,labour and T&P for cutting groves in pucca floor and walls for taking G.I. pipes and fittings /P.V.C. pipes and fittings and making good to the damages all complete as per specification.			0.00	
		Mtr	70.0	335.47	23,483.18
				0.00	
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge.			0.00	
				0.00	
a)	Supplying all labour and T&P for fixing 2 in 1 bib cock of the following size as per specification all complete.			0.00	
		Each	16.0	1543.79	24,700.70
				0.00	
b)	Supplying all labour and T&P for fixing long body bib cock of the following size as per specification all complete.15mm Dia			0.00	
		Each	4.0	1272.28	5,089.10
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
c)	Supplying all labour and T&P for fixing CP Angular stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete. 15mm Dia			0	
		Each	28.0	1106.37	30,978.30
				0.00	
d)	Supplying fitting fixing of C.P Pillar Taps highpressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification. 15mm Dia			0	
		Each	17.0	1740.50	29,588.50
				0.00	
e)	Supplying all labour and T&P for fixing CP short body Bib cock [taps] polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete .			0	
		Each	3.0	1080.29	3,240.87
				0.00	
f)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete.) 25mm Dia	Each	6.0	810.78	4,864.67
				0.00	
g)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 32mm Dia	Each	4.0	1677.49	6,709.95
				0.00	
h)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 50mm Dia	Each	2.0	3687.62	7,375.24
				0.00	
i)	Providing and fixing C.P. Brass Extension Nipple 1 inch with extension piece as per direction of Engineer-in-charge.	Each	15.0	701.38	10,520.70
				0.00	
j)	Supplying fitting fixing of CP waste of the following noninal diameter for wash hand basin and sink as per specification.	Each	14.0	448.52	6,279.25
				0.00	
k)	Supplying all materials,labour and T&P for fixing CP Gratings of the following nominal diameter of outlet, of self cleaning design with sand cast iron screwed down or hinged grating with or without vent arm including cutting and making good to the walls and floors etc. all complete as per specification.			0	
		Each	38.0	1404.67	53,377.54
				0.00	
l)	Providing and fixing of approved make and model for Chrome plated Grab Bar,for Physically challenged toilet, The work shall include the cutting of walls or floors & making good, complete as per direction of Engineer in Charge.			0	
		Each	1.0	5177.18	5,177.18
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
6	Supplying fitting fixing of C.P health faucet high pressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification.			0.00	
	15mm dia CP Health Faucet of 1mtr long PVC tube			0	
		Each	8.0	955.56	7,644.51
				0.00	
7	Providing and fixing of Rational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701-1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts , fixing ball valve etc. including hoisting up to a height of 5.00metres above ground level and placing the tank to the required position etc. all complete as per specification and direction of the engineer-in-charge.			0.00	
i)	Overhead water storage tanks	Lit.	8000.0	16.04	1,28,329.63
	Extra over item no.3.1.8 for hoisting Rational moulded polyethylene cylindrical vertical water storage tanks of following sizes for every additional height of 5.00m. Or part thereof complete as per specification and direction of the engineer-in-charge.			0.00	
	Water storage tanks	Each	4.0	1472.64	5,890.56
8	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.			0.00	
	110mm diameter PVC SWR pipes	Mtr	105.0	461.73	48,482.07
	75mm diameter PVC SWR pipes	Mtr	90.0	286.62	25,795.98
	110mm PVC door Tee	Each	12.0	458.55	5,502.58
	75mm PVC door Tee	Each	5.0	345.74	1,728.70
	110mm PVC offset	Each	10.0	162.84	1,628.40
	110mm PVC door bend	Each	10.0	255.35	2,553.52
	75mm PVC door bend	Each	10.0	134.64	1,346.38
	110mm PVC plain shoe bend	Each	10.0	201.54	2,015.44
	75mm PVC plain shoe bend	Each	10.0	98.18	981.76
	110mm PVC vent cowl	Each	10.0	102.19	1,021.88
	75mm PVC vent cowl	Each	0.0	86.14	-
	110mm S-trap	Each	12.0	743.05	8,916.55
	110mm P-trap	Each	1.0	410.88	410.88
	110mm SWR Pipe Clip	Each	105.0	35.87	3,766.56
	75mm SWR Pipe Clip	Each	90.0	27.61	2,485.08
	110/75 mm Dia Reducer/Connector	Each	5.0	305.03	1,525.15
	90mm Nahani Trap	Each	33.0	171.81	5,669.66
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
9	Supplying all materials,labour and T&P for fixing of PVC 10 ltr capacity low level flushing cistern with manually controlled device[handle cover] confirming to IS 7231 with fittings and fixtures etc. all complete as per specification.			0.00	
	10 Liters capacity PVC cistern			0	
		Each	16.0	2306.07	36,897.18
				0.00	
10	Supplying all materials,labour and T&P for fixing water closet ,squatting pan(Indian type.W.C.pan or Orissa pan) confirming to IS 2556 : Part-3-2004 duly embedded in cement concrete (1:4:8) using 40mm.nominal size h.b.g. chips [including foot rest for I.W.C. and trap] all complete as per specificationand directon of theEngineer - in - charge.			0.00	
				0	
		Each	8.0	4528.49	36,227.89
				0.00	
11	Supplying all materials,labour and T&P for fixing in cement mortar (1:3) a pair of white vitereous china (250x130x30mm.) foot rest for squatting water closet. etc. all complete as per specificationand direction of the Engineer-in-charge.			0.00	
				0	
		Pair	8.0	661.86	5,294.90
				0.00	
12	Supplying all materials,labour and T&P for Supplying all materials,labour and T&P for fixing wash down water closet (European type W.C.) with integral "S" or "P" trap tothe floor with wooden plug and chromium plated screw including jointing the trap with soil pipe in cement mortar (1:1) etc. all complete as per specification.			0.00	
		Each	7.0	3747.21	26,230.46
				0.00	
13	Supplying all materials,labour and T&P for fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers all complete as per specification.			0.00	
		Each	7.0	1089.61	7,627.28
				0.00	
14	Supplying all materials,labour and T&P for fixing wash hand basin (SS Made) with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	12.0	5427.17	65,126.09
				0.00	
15	Supplying all materials,labour and T&P for fixing corner wash hand basin with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	4.0	3146.59	12,586.35
				0.00	

SI. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
16	Supplying all materials,labour and T&P for fixing Pedestal for wash hand basin complete recessed at the back for the receiptionof pipe and fittings etc. all complete as per specification including cost of pedestal for wash basin			0.00	
				0	
		Each	4.0	3093.84	12,375.37
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
17	Supplying all materials,labour and T&P for fixing of 600x450 bevelled edge mirror of superior glass mounted on 6mm thick ac sheet or ply wood sheet and fixed to wooden plugs with chromium plated brass screws and washers etc. All complete as per specification .			0	
	600mmx450mm size B.E.mirror			0	
		Each	12.0	2557.89	30,694.63
				0.00	
18	Supplying all materials,labour and T&P for fixing standard size glass self with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws and washers etc. all complete as per specification.			0.00	
		Each	13.0	946.01	12,298.08
				0.00	
19	Supplying all materials,labour and T&P for fixing standard size C. P. towel rail fixed with chromium plated brass brackets fixed to wooden plugs with cromium plated brass screws complete as per specification.			0.00	
				0	
		Each	8.0	1274.52	10,196.14
				0.00	
20	Supplying all materials,labour and T&P for fixing of cromium plated brass soap dish complete with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws as per specification.			0.00	
				0	
		Each	16.0	418.19	6,691.07
				0.00	
21	Supplying all materials,labour and T&P for fixing standard size C. P. towel ring fixed fixed to wooden plugs with cromium plated brass screws complete as per specification.	Nos	16.0	645.22	10,323.58
				0	
22	Supplying all materials,labour and T&P for fixing of liquid soap container - glass container or plastic container with chromium plated brass lid and brackets fixed to wooden plugs with chromium plated brass screws as per specification.	Nos	4.0	2086.83	8,347.32
				0.00	
23	Supplying all materials,labour and T&P for fixing stainless steel AISI 304 [18/8] Kitchen sink as per IS 13983 with cast iron bracet and stainless steel plug including painting of fittings and brackets ,cutting and making good to the walls etc. all as per specification including cost of sink with all accessories.			0	
		Nos	2.0	7267.86	14,535.71
				0.00	
24	Supplying all labour and T&P for fixing CP Concealed stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete.	Each	8.0	1326.32	10,610.56
				0.00	
25	Supplying all materials,labour and T&P for fixing Porcelain Urinal respectively with waste pipe by means of white lead mixed with chopped hemp etc. all complete as per specification.	Each	8.0	8961.16	71,689.25

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
				0.00	
26	Fixing standard size Chromium Plated brass or glazed porcelain Toilet paper holder fixed to woden plugs with Chromium Plated brass screws complete as per specification and direction of the Engineer in charge.	Each	2.0	1404.55	2,809.11
				0.00	
27	Providing and fixing approved quality E.W.C Matrix Set with grab bar set for Handicap (Accessible) Toilet consisting of stainless steel grab bars and support fittings required for differently-abled users, conforming to universal accessibility standards. The set shall include wall-mounted horizontal and vertical support bars near WC and wash basin area, made of SS 304 grade stainless steel with satin/matt finish, complete with necessary brackets, anchor fasteners, screws, bends, end caps, and accessories. The arrangement shall provide safe support and ease of movement for wheelchair users and physically challenged persons. Installation shall be done in proper alignment, level, and position as per approved drawings and accessibility guidelines, complete in all respects as per the direction of the Engineer in charge.	Each	1.0	94164.00	94,164.00

	Total Rs.				12,46,786.95

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT KURULUBAHAL UPS, CHANABAHAL , BOLANGIR,ODISHA

B. EXTERNAL P.H. & SANITARY WORK					
Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
1	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap , Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per aproved drawing, specification and direction of Engineer-in-charge.				
	250mmx250mm with RCC cover	Each	10.00	2090.49	20,904.88
				0.00	
2	Constructing inspection chamber with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			0.00	
	Inspection Chamber inside size 750mm x 750mm and 450mm	Each	8.00	16188.89	1,29,511.14
				0.00	
3	Supplying all materials,labour and T&P for laying in trenches unplasticized PVC pipes and specials of the following outside dia. for all classes including jointing with approved solvent cement by non-heat application method including testing as per specification and direction of Engineer-in-charge etc. all complete. [including earth work and cost of pipes.			0.00	
a)	110 mm dia U-PVC pipes Class-3	mtr	60.00	1203.72	72,223.08
b)	160 mm dia U-PVC pipes Class-3	mtr	30.00	2576.65	77,299.44
				0.00	
4	Constructing manholes with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			0.00	
a)	Plain Manholes inside size 900mm x 800mm and 450mm deep	each	8.00	21626.45	1,73,011.60
				0.00	
5	Construction of 50 Users Septic Tank (2 No.s)			0.00	
a)-i	Earth work in excavation in foundation trenches, column foundation, pit, etc in all kind of soil including moorum stony earth and earth mixed with boulders except sheet rock and boulders not requiring blasting including dressing of sides and levelling the bed up to the required depth and depositing the excavated materials away from the work site with initial lead of 50 mtr and all lifts, including shoring, shuttering & dewatering (if required) with cost of labour, labour cess, hire & running charges of all machineries, sundries & T&P required for the work complete as directed by the Engineer in charge.	Cum	56.88	433.73	24,670.71
a)-ii	Above 1.5mt. Depth	Cum	47.57	465.06	22,122.05
				0.00	
b)	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.	Cum	70.71	241.02	17,043.15
				0.00	
c)	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth, well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All compelete as per the dirrection of Engineer-in-charge.	Cum	2.96	1642.61	4,858.85
				0.00	

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
d)	Providing and lying Plain Cement Concrete of proportion (1:4:8) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, taxes, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	2.96	8106.00	23,977.54
				0.00	
e)	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	3.92	8638.31	33,896.73
				0.00	
f)	Providing 12mm thick cement plaster in cement mortar (1:4) with neat cement punning including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, taxes, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.	Sqm	15.84	305.21	4,834.59
				0.00	
g)	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance, loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement			0.00	
i.	Base	Cum	5.47	9737.75	53,226.54
ii.	Slab	Cum	4.64	17784.15	82,589.60
iii.	Wall	Cum	18.79	16787.47	3,15,477.53
h)	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).	Qtl.	32.00	13275.28	4,24,808.99
				0.00	
i)	Supplying all materials, labour, T&P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	4.00	188.92	755.67
				0.00	
j)	Supplying all materials, labour, T&P and laying in trenches (to level or slope) and jointing with provision of stiff mixture of cement mortar in proportion of 1:1 for salt glazed stoneware pipes, Grade—A of the following internal diameters including testing of pipes and joints complete. 110mm diameter UPC pipe	Mtr	12.00	1203.72	14,444.62
				0.00	
6	Constructing RCC soak way pit with R.C.C top slab in (1:2:4) mix, inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm² with dimensional tolerance ± 8 percent in cement mortar (1:4), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, complete as per specification.			0.00	
a)	RCC soak way pit of size 1.5m x 1.8m deep	each	8.00	12010.87	96,086.93
				0.00	
	Borewell			0.00	

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
7	Supplying all materials,labour T&P and providing fitting submersible pump with squarrel cage inspection type submerssible type submersible electric motor to run on 3 phase/1 phase line voltage rangingfrom 320 volt to 450 volt conforming to IS :8034/89			0.00	
a	One no. 3 phase 2 H.P 3 stage head range 30 to 54 mtr. Discharge 155 to 200 LMP with outlate dia 32mm.	Set	1	23423.00	23,423.00
b	2.5 Sq mm cable.	Mtr	70	181.72	12,720.40
c	40mm dia steel short piece.	Each	2	238.36	476.72
d	Steel rope wit cover.	Mtr	70	41.77	2,924.04
e	Well Cap.	Each	1	238.36	238.36
f	50mm size CI bracket.	Each	1	143.02	143.02
g	20mm dia rigid HDPE pipes.	Mtr	70	117.76	8,243.48
h	Boring up to 30 mtr.	Mtr	30	1050.55	31,516.62
i	Boring work Above 30 mtr.	Mtr	50	1050.55	52,527.70
j	8" ASTM pipe SCH-80	Mtr	70	2702.74	1,89,192.00
k	Delivery	Set	1	2360.00	2,360.00
l	Labour charges for lowering of summerssible pumpset with pipes and cables etc with testing and commissioning at site.	Mtr	70	147.50	10,325.00

	Total Rs.				19,25,833.96

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT KURULUBAHAL UPS, CHANABAHAL , BOLANGIR, ODISHA					
INTERNAL ELECTRICAL WORK FOR SCHOOL BUILDING					
Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTITY	RATE	AMOUNT Rs.
	INTERNAL WIRING				
1	Recessed wiring to light point / first light of group control/ call bell point/ exhaust fan point /wall fan point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6 Amp, 250 V clip in type switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge.				
	Group C	Nos.	150	1,497.42	2,24,613.00
2	Recessed wiring to secondary light point looped from primary light point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including 3 plate ISI marked Ceiling rose with all accessories & connection as per direction of Engineer-in-charge. Average Length 2 mtr.	Nos.	55	564.04	31,022.20
				-	
3	Recessed wiring to ceiling fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch, Stepped type Moudular Regulator, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. Group c	Nos.	65	1,964.70	1,27,705.50
				-	
4	Recessed wiring to Twin control light point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6Amp, 250 V clip in type 2way switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer-in-charge. Group C	Nos.	10	2,017.80	20,178.00
				-	
5	Recessed wiring for 5 / 6 amp socket outlet with 6Amp, 250 V clip in type modular switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection on same switch board as per direction of Engineer-in-charge.	Nos.	53	682.04	36,148.12
				-	
6	Recessed wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection on separate board as per direction of Engineer-in-charge. Group C	Nos.	5	1,674.42	8,372.10
				-	
7	Recessed wiring for 2 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of Engineer-in-charge.	Nos.	35	1,251.98	43,819.30
				-	
8	Recessed wiring for 6 pin 16 amp socket outlet with 16Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection as per direction of Engineer-in-charge.	Nos.	20	1,083.24	21,664.80
				-	
9	Recessed wiring for A.C/ Power socket outlet with industrial type socket outlet, plug top and metal chained cover in sheet steel enclosure ,20A/32A SP MCB including all accesories and connection as per direction of Engineer-in-charge.	Nos.	5	1,293.28	6,466.40
10	Recessed wiring to exhaust fan/Wall Fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. Group C	Nos.	22	1,497.42	32,943.24
11	Call bell point	Nos.	3	1,689.76	5,069.28

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
12	Recessed wiring for 3 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accessories and connection on separate board as per direction of Engineer-in-charge.	Nos.	1	1,405.38	1,405.38
				-	-----
	SUB TOTAL			-	5,59,407.32
	SUBMAIN			-	
13	Recessed wiring to submain in 4 x 10 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	75	579.38	43,453.50
				-	
14	Recessed wiring to submain in 4 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	395.30	59,295.00
				-	
15	Recessed wiring to submain in 2 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 25 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	20	280.84	5,616.80
				-	
16	Recessed wiring to submain in 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	750	240.72	1,80,540.00
				-	
17	Recessed wiring to submain in 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	1850	219.48	4,06,038.00
				-	
18	Recessed wiring to submain in 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	202.96	30,444.00
				-	-----
	SUB TOTAL			-	7,25,387.30
				-	

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
19	DB			-	
	Supply and fixing of following way three pole and neutral, sheet steel, MCB distribution, 415 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic cover for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required with necessary MCB , RCCB / ISOLATORS as required. Note for MCB- There should be colour indication for tripping On ,Off & Trip/There should be mid trip position for toggles for electrical fault conditions.			-	
a)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For PDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-63A FP MCB (10KA) Outgoings-10/20A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
b)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For LDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
c)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For UPS DB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
	SUB TOTAL			-	1,50,198.66
	CABLE			-	
20	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 3.5core 150 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	200	2,289.20	4,57,840.00
21	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 3.5core 95 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	50	1,616.60	80,830.00
22	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 4 core 16 sq.mm Aluminium on surface as required.	Rmt	20	634.84	12,696.80
	SUB TOTAL			-	5,51,366.80
	END TERMINATION			-	
	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum cable of 1.1 KV as required.			-	
23	3.5C x 150 sq.mm	set	2	1,239.00	2,478.00
24	3.5C x 95 sq.mm	set	2	1,121.00	2,242.00
25	4C x 16 sq.mm	set	2	649.00	1,298.00
	SUB TOTAL			-	6,018.00
	PANEL			-	
	Supply, installation, testing & commissioning of floor mounting front operated front access extensible type cubicle panel totally enclosed, dust and vermin proof with IP-42 /55 protection with hinged and lockable doors. CRCA sheets including interconnections, tinned copper crimping lugs, bonding to earth and painting suitable for use at 415 V, 3phase 4 wire 50 Hz system, and to withstand a fault level of 35 KA symmetrical for 1 sec at 415 V complete as per specifications, as required and as below : All switchboards shall have provision for entry of cables from the bottom as required. All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The bus bars shall be insulated with heat shrinkable sleeves. SMC/DMC shrouds and busbar supports shall be used with Indication lamp, C.T , Digital Voltmeter, Digital Ammeter and control fuse etc. complete.			-	
26	MAIN PANEL with 150A 4P MCCB 36KA -1 No as incomer, 63A 4P MCB 10KA 4Nos, 100A 4P Change over Switch 1Nos, 40A 4P MCB 10KA-9Nos, 32A DP MCB 10KA-3Nos with E.C Busbars with 4nos 65KA VSD along with 4nos 32A SP MCB.	set	1	1,91,504.56	1,91,504.56

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	SUB TOTAL			-	1,91,504.56
				-	
	EARTHING			-	
27	Earthing with copper earth plate 600 mm x 600mm x 3.15 mm thick ISI marked including accessories and providing masonry with cover plate having loccking arrangement and watering pipe etc with charcoal and salt as required.	Set	4	16,233.26	64,933.04
28	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	Rmt	15	860.22	12,903.30
29	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked on surface or in recess for connection etc as required.	Rmt	50	923.94	46,197.00
30	Providing and fixing 8 SWG CU wire on surface or in recess for loop earthing as required.	Rmt	50	105.02	5,251.00
	SUB TOTAL			-	1,29,284.34
				-	
	FIXTURE			-	
	Supply, installation, testing and Commissioning of pre-wired fluorescent fitting / compact fluorescent fitting /LED fitting of all sizes complete with all accessories and lamp etc. directly on ceiling /wall or recessed in false ceiling , including connection with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor and earthing as required.			-	
31	Ceiling mounted indoor type batten type LED Luminaire with LED Lamp	Nos	130	554.60	72,098.00
32	Ceiling/ Wall mounted type BULK HEAD Luminaire	Nos	10	1,267.32	12,673.20
33	Supply, Installation, testing and commissioning of 10W Mirror Light	Nos	15	364.62	5,469.30
34	Supply, Installation, Testing and Commissioning of ceiling fan 1200mm sweep, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FR PVC insulated single core multiatrand copper conductors as required.BLDC FAN.	Nos	65	4,659.82	3,02,888.30
35	Supply, Installation, testing and commissioning of exhaust fan of 250 mm PLASTIC Exhaust Fan (Vntilation Fan) complete, connection, etc as required.250MM CRISP AIR EXH FAN.	Nos	17	2,109.84	35,867.28
36	Supply & fixing of 18W LED Down Light (S/R) with all accessories.	Nos	50	1,250.80	62,540.00
37	Supply & fixing of LED 36w 2'x2' Surface/Recessed Mounted Light as required .	Nos	15	2,269.14	34,037.10
38	Supply & fixing of 6W LED Down Light (S/R) with all accessories.	Nos	10	636.02	6,360.20
39	Supply, Installation, testing and commissioning of wall fan of 400 mm sweep as required.Model-400mm STRIKER HI SPEED.	Nos	5	3,645.02	18,225.10
	SUB TOTAL			-	5,50,158.48
	PERFORATED CABLE TRAY			-	
	Supply and installation of Pregalvanised Perforated type cable trays without cover. The rate shall include bends, Tees, all supporting brackets, anchor fasteners, screws, bolts, nuts etc., including painting of cable trays. Thickness of sheet steel shall be 2 mm. Support sizes			-	
40	Size of Cable Tray :300 mm x 50 mm	Rmtr	10	916.86	9,168.60
41	Size of Cable Tray :150 mm x 50 mm	Rmtr	40	712.72	28,508.80
	SUB TOTAL			-	37,677.40

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
				-	
	TV /TEL & DATA			-	
42	Supplying and fixing of clip in type modular Telephone socket ISI marked mounted on G.I modular box with face plate & cover of suitable size ,including all accesories and connection as per direction of Engineer in Charge.	Nos	10	450.76	4,507.60
43	Supplying and fixing of clip in type modular T.V. antenna socket ISI marked on mounted on G.I modular box with face plate & cover of suitable size , including all accesories and connection as per direction of Engineer in Charge.	Nos	10	462.56	4,625.60
44	Supplying and drawing 4 pair, 0.5 sq.mm FR PVC insulated coper conductor, unarmoured telephone cable in existing surface / recessed PVC conduit as required.	Rmt	250	53.10	13,275.00
45	Recessed wiring to television point with cable RG-6 grade, 0.7 mm solid copper conductor PE insulated shielded with fine tined copper braid and protected with FR PVC sheath in in existing surface / recessed PVC conduit as required as per direction of Engineer in Charge.	Rmt	150	47.20	7,080.00
46	Supplying and fixing of following sizes PVC conduit along with accessories in recessed wiring including cutting the wall and making good the same in case of recessed conduit as required.			-	
	20mm	Rmt	250	121.54	30,385.00
47	Supplying and fixing of 16 / 18 SWG metal box of 200 mm x 150 mm x 60 mm deep on surface / recess with suitable size of phenolic laminated sheet cover in front including cutting the wall and making good the same in case of recessed conduit as required. (Tel junction Box)	Nos	1	212.40	212.40
48	Supplying & Commissioning of Telephone Hand Set.	Nos	10	866.12	8,661.20
49	Supplying & installation of 100 pair KRONE make moudles with locking & key arrangements fabricated with MS sheet & powder coated to be fixed on concealed manner incl. good the damages.	set	1	2,950.00	2,950.00
50	SITC of 4 pair Cat6 23 awg U/UTP LSZH Cable in the existing surface/ recessed steel/ PVC conduit as required: The 4 pair Unshielded Twisted Pair cable shall be UL Listed,exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E , 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must,Insertion Loss of 32.8 db/100m at 250 MHz ,Cable should support operating temperature from -20° to +70°C Cable support Conductor Resistance ≤ 9.38 Ω/100m Max., Cable support Delay Skew: < 45 ns/100m, Operating Voltage: 72V , Impedance: 100 ± 15 Ω @100 MHz. and Propagation Delay @250 MHz : 536 ns/100m ETL Verified 4 connector channel performance up to	Mtr	750	97.94	73,455.00
51	Supply & fixing of RJ-45Jack of Category 6 with Dual-port British-style Face plate 86x86 mm with Curveture and wall mount box.	Nos	20	1,117.46	22,349.20
	SUB TOTAL				1,67,501.00

	TOTAL INTERNAL ELECTRICAL WORK=				30,68,503.86

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT HALDI UPS, HALDI , BOLANGIR,ODISHA

BILL OF QUANTITIES (CIVIL WORK)								
Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
1	Item No. 16 & Page No. 19	Excavation, loading, unloading and carriage by mechanical means of all kinds of soil, including stoney earth, gravel and moorum etc interspread with boulders upto 1/2 cum size with all lifts and delifts including trimming of slopes and bed to design section and depositing the the excavated materials away from work site as per the specification and as directed by the Engineer- in-charge within an initial lead of 1km from the place of excavation complete.						
		Ground Floor	Cum	2645.49	117.41		3,10,606.98	
		C.WALL	Cum	136.79	117.41		16,060.51	
2	Ref:AOR(Orissa)/I.Earth Work-14,Page No-8	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	Cum	881.83	204.26		1,80,120.83	
3	Item No. 16 & Page No. 19	Filling the Foundation, Sides of Foundation, etc. in mechanical means with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of machinery, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-			
		Ground Floor	Cum	1763.66	117.41		2,07,071.32	
		C.WALL	Cum	91.19	117.41		10,706.62	
4		Supplying, diluting and preparing chemical emulsion like Imidacloprid 30.5 % SC or other chemicals approved by Central Insecticides Board or as directed by the manufacturer and spraying the mixture uniformly by sprayer as Pre/Post-Constructional Anti-termite Treatment confirming to IS 6313 (Part-II) including the cost of all materials, cost of all labour, conveyance, loading, unloading, T&P, etc. all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	sqm	1818.06	-		104.50	1,89,987.27
5	Ref:AOR(Orissa)/I.Earth Work-15,Page No-8	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth , well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the direction of Engineer-in-charge.			-		-	
		Ground Floor	Cum	177.27	1,259.53		2,23,277.24	
		C.WALL	Cum	6.62	1,259.53		8,338.10	
6	Ref:AOR(Orissa)/III-Concrete -3,Page No-43	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.			-		-	
		Ground Floor	Cum	428.91	7,108.08		30,48,728.31	
		C.WALL	Cum	11.63	7,108.08		82,667.02	
		RCC WORK			-		-	

7	Ref:AOR(O disha)/IV- RCC-10- iv,Page No- 54	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance,loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement.			-	-	
		(A)R.C.C. foundation and footing bases of columns mass concrete pre-cast slab etc.			-	-	
		Ground Floor	Cum	343.45	8,053.15	27,65,852.99	
		C.WALL	Cum	9.00	8,053.15	72,478.31	
		R.C.C. Plinth Beam			-	-	
		Ground Floor	Cum	135.85	9,084.94	12,34,188.83	
		C.WALL	Cum	5.63	9,084.94	51,148.20	
		(B)R.C.C. Column &cRoof Beam			-	-	
		Ground Floor	Cum	269.33	19,124.85	51,50,895.85	
		C.WALL	Cum	3.09	19,124.85	59,095.79	
		Terrace	Cum	34.40	21,574.88	7,42,176.01	
		(C) R.C.C. Slab			-	-	
		Ground Floor	Cum	242.35	14,872.13	36,04,260.71	
		C.WALL	Cum	0.42	14,872.13	6,246.29	
		Terrace	Cum	13.65	16,471.62	2,24,837.61	
		(D)R.C.C. Staircase			-	-	
		Ground Floor	Cum	10.09	18,962.25	1,91,329.06	
		(E)R.C.C. lintel			-	-	
		Ground Floor	Cum	33.16	17,155.31	5,68,870.15	
		Terrace	Cum	0.97	19,211.58	18,635.23	
		(F)R.C.C. Fins			-	-	
		Ground Floor	Cum	17.02	14,027.49	2,38,747.81	
8	Ref:AOR(O disha)/IV- RCC- 9,Page No- 52	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).			-	-	
		Ground Floor	Qntl	977.97	11,250.24	1,10,02,395.26	
		C.WALL	Qntl	22.54	11,250.24	2,53,580.36	
		Terrace	Qntl	76.47	11,290.44	8,63,379.99	
		BRICK WORK			-	-	
9	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying Brick Masonry work in Foundation & Plinth using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge.			-	-	
		Ground Floor	Cum	194.50	6,941.23	13,50,069.62	
		C.WALL	Cum	17.34	6,941.23	1,20,360.96	

10	Ref:AOR(O disha)/VI- Brick Work- 02,Page No- 71	Providing and laying Brick masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:4) for Half Brick Masonry Wall with provisions for 2 nos 6mm dia MS bar at each 4th layer after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge. (Excluding Cost Of Steel Reinforcement).			-		-	
		Ground Floor	Cum	34.41	7,235.64		2,48,978.44	
11	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying of Full Brick Masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties.			-		-	
		Ground Floor	Cum	453.25	6,980.64		31,63,976.89	
		C.WALL	Cum	25.88	6,980.64		1,80,659.07	
		Terrace	Cum	158.97	7,436.01		11,82,101.87	
12	Ref:AOR(O disha)/X- Plastering- 27,Page No- 109	Providing 6 mm thick Cement Plaster in Cement Mortar of (1:4) to Ceilings of Roof Slabs, Stairs, Landings, Chajja, Shelves, Columns, Beams and Lofts etc. including roughening, scraping and cleaning and finishing the plastered surface smooth using wooden floats only to proper plumbs and level, making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading and royalties, all labour, scaffolding, watering and curing , sundries, T&P etc. complete as per direction of the Engineer-in-charge			-		-	
		Ground Floor	Sqm	83.59	257.59		21,532.28	
		C.WALL	Sqm	64.71	257.59		16,668.91	
13	Ref:AOR(O disha)/X- Plastering- 16,Page No- 106	Providing 12mm thick cement plaster in cement mortar (1:4) to the surface of half brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.			-		-	
		Ground Floor	Sqm	2147.18	247.45		5,31,311.10	
		C.WALL	Sqm	3209.45	252.99		8,11,965.17	
14	Ref:AOR(O disha)/X- Plastering- 14,Page No- 105	Providing 16mm thick cement plaster in cement mortar (1:6) to the surfaces of brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.(inner side)			-		-	
		Ground Floor	Sqm	3559.07	335.47		11,93,975.45	
		C.WALL	Sqm	202.50	335.47		67,933.49	
		C.WALL	Sqm	170.16	343.85		58,509.86	

15	CCE LEVEL COMMITTEE MEETING HELD ON 12.02.2024 AT 11 AM	Waterproofing application:- Providing and application of two component polymer modified flexible cementitious waterproofing coating at a thickness of 1.5-2.5 mm The membrane should have Elongation equal or more than: 30% etc.as per direction of E.I.C (For longer span, in terrace panel of 4m*4m should be done by roovecutting, and filling with PU Sealant) Crack Bridging ability: Up to 1 mm Adhesive strength: 1.0 N/mm² @ 28d Tensile elongation: 60% @ 20°C Shore A Hardness >85 (between 3-7 days)			-	-		
		Terrace	Sqm	1874.36	578.20		10,83,754.95	
		FINISHING WORK			-		-	
16	Ref: OPWD/Revised Analysis of Rate/Ch- XIX-SI. No.2	Supplying and finishing the plastered surface of wall using 2 Coats of Cement Based Wall Putty (Water Based) of approved make and quality and finished smooth and even surface to receive the paint including the cost of all materials, cost of all labour, conveyance, taxes, loading, unloading, scaffolding, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-	-		
		Interior Wall Putty			-	-		
		Ground Floor	Sqm	5096.62	76.11		3,87,903.75	
		C.WALL	Sqm	170.16	78.35		13,332.38	
17	Ref:AOR(O disha)/IX- Painting- 1,20 & Page No- 93,99	Providing and applying 2 coats plastic emulsion paint of approved quality and shade over a coat of wall primer of approved quality to surfaces (interior) including thoroughly brushing the surface free from foreign materials, sand papering smooth the intermediate coats, providing necessary putty & primer including of all materials, labour, conveyance,royalties, scaffolding, watering, curing, sundries, tools and plants etc as per the direction of Engineer-in-charge. (colour & shade to be approved before procurement & use)			-	-		
		Ground Floor	Sqm	5168.33	229.04		11,83,743.97	
		First Floor	Sqm	267.94	234.11		62,727.97	
18	Ref:AOR(O disha)/IX- Painting- 1,20 & Page No- 93,99	Providing and Painting with Two Coats Weather Coat Paint (exterior grade) of approved make & shade manufactured by reputed manufacturer make an even finished surface over a coat of water bound cement primer and wall putty in all heights with all scaffolding and staging charges including cost, conveyance, cost of all labours, T & P, sundries etc. as required for the work complete.			-	-		
		Ground Floor	Sqm	2446.95	219.72		5,37,634.07	
		TERRACE	Sqm	267.21	219.72		58,710.31	
		First Floor	Sqm	1350.36	228.09		3,08,009.01	
19	Ref:AOR(O disha)/IX- Painting- 1,20 & Page No- 93,99	Painting two coats of synthetic enamel paint over Iron Works as per approved shade of approved quality over a coat of primer, sand papering, polishing the surface including cost, conveyance,labour, T&P, scaffolding etc. as required for the work complete as per direction of Engineer-in-charge. (The paints and primer are to be approved before procurement and use)			-	-		
		Ground Floor	Sqm	201.09	317.42		63,829.99	
		C.WALL	Sqm	44.41	317.42		14,096.62	
		First Floor	Sqm	25.62	323.20		8,280.44	
20	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying of 600 mm x 600 mm Vitrified Floor Tiles Matt Finish Anti Skid Plain Series confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-		
		Ground Floor	Sqm	775.10	1,357.35		10,52,085.09	

21	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying of Vitrified Tiles Matt Finish Plain Series in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 600mm x 600mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	73.80	1,515.83		1,11,868.11	
22	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mmx300mm antiskid ceramic floor Tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	82.32	1,302.84		1,07,249.62	
23	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Ceramic wall tile With Epoxy Grout For Toilet Providing and laying of Glazed Ceramic Wall Tiles in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 300mm x 450mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	318.76	1,453.41		4,63,287.70	
24	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing & laying Heavy Duty Vetrified Floor Tile Matt Finish Rustic Series having thickness 10mm confirming to IS 4457 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces with oxlaic acid, machine grinding, mirror polishing including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	662.15	1,464.85		9,69,951.75	

25	Ref: OPWD/Analysis of Rate/Page No.90	Providing & laying Heavy Duty Vetrified Tile Matt Finish Rustic Series having thickness 10mm in dado/skirting confirming to IS : 15622 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 12mm thick cement mortar (1:3) (1 cement: 3 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	75.83	1,623.56		1,23,114.71	
26	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mm x 300mm Chequered Tiles. tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	136.51	814.08		1,11,130.33	
27		Providing & laying granite stone flooring in Floors and landing using 19-20 mm thick granite stone slab of approved quality, colour and size above 0.4 Sqm as per IS 14223 laid over an under layer of 20 mm thick cement mortar (1:4) (1 cement: 4 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of granite tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	9.45	3,719.71		35,151.30	
		BUILT IN JOINERIES			-		-	

28	Ref: DAR-SH-26.86.6	Providing and fixing 65mm X 125mm factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceasetory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.			-	-	
		Ground Floor	Rmt	99.75	1,398.77		1,39,527.51
29	Ref: DAR-SH-26.88.1 2023	Providing and fixing of 30 mm thick factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with SS 304 Grade Matt Finished 3 Nos butt hinges of Size 100mm X 60mm X 2.5mm, 1 No 250mm X 16mm Aldrop, 1 No 150mm x 16mm tower bolt, 2 No 150mm length Door handle with necessary full body threaded star headed counter sunk S.S screws, floor/hanging door stopper & hydraulic door closer as required and mentioned in architectural drawing all as per direction of Engineer-In- Charge.			-	-	
		Ground Floor	Sqm	139.28	6,179.07		8,60,620.87
30		Supplying and fixing of Powder coated 50-60 microns approved colour of aluminium 40mm Casement series Door Unit with suitable aluminium extrude profiles. the system is designed to accommodate 12mm clear toughened glass. the rate quoted inclusive of hardwares like antilift, roller, Espag lock cum handle, epdm gaskets, T mullion, Fly Mullion, bottom adopter, mid transom, glazing clip for 12 mm glass felt along with all accessories etc complete. The gap between the wall and window will be filled with silicon weather sealant in the outer side. including the cost of all materials ,hardware fittings, cost of all labour, conveyance, loading, un loading, T&P, etc, complete as per the direction of Engineer-in Charge.(As per Proceeding of C.C.E. Level committee meeting held on dt. 12.02.2024 at 11.30 A.M.)			-	-	
		Ground Floor	Sqm	4.32	-	12,427.80	53,688.10
31	Item No. 16 & Page No. 19	Supplying, fitting and fixing of M.S. grill ,Grated doors etc made out of M.S. flats/square bars as per drawing and design fixed in position to proper plumb with cost, conveyance, Materials, labour, T&P etc. required for the complete in all respect as per the direction of Engineer-in-Charge.			-	-	
		Ground Floor	Kg	8202.65	117.19		9,61,234.10
		C.WALL	Kg	3683.16	117.19		4,31,614.05
		Terrace	Kg	946.80	117.19		1,10,951.52

32		Supplying, fabricating & fixing of polished stainless steel (304 grade) items made out of pipes, angles, flats, plates, hollow tube, square pipe bracing as per approved design and specification, buffing, polishing etc. with cost, conveyance, labour in railing, parapet, staircase, space frame etc required for the work complete in all respect as per direction of Engineer-in-charge.			-		-	
		Ground Floor	Kg	468.01	405.68		1,89,864.17	
33	SOR Sl. No 12 Page- 235	Supplying , fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame, shutters and all fitting and fixtures.			-		-	
		Ground Floor	Sqm	147.15	5,853.94		8,61,407.95	
34		Providing and fixing barbed wire fencing on R.C.C. (1:2:4) fencing posts with chips 1.68M long 13cm x 13cm at bottom and 8cm x 8cm at top and 30cm 30cm x 8 cm base finished smooth by means of staples and staining hooks by means of tying with G.I wire and including cost of barbed wire, staples, hooks, tying wires and labour, post etc complete in all respect as per the direction of the Engineer-in-charge.			-			
		Length of Barbed Fencing	Rmt	300.00	1,040.31		3,12,092.73	
35	Market Rate	Supplying, Providing and installing of modified flexible polyolefin (FPO) membrane system (Water Proofing tape) which shall be designed to be bonded over expansion and movement joints upto 200 mm in structures to prevent the passage of water having elongation at break more than 600%, maximum permissible permanent elongation shall not less than 20% and having resistance to aggressive conditions like ground water, soil, cement water, bitumen and bitumen emulsion coatings .It is bonded in position using two part epoxy adhesive and consumption of adhesive shall be as per manufacturers direction after proper fixing of the necessary back up materials as specified and directed by the EIC.The item rate shall be including all materials, all kinds of labours, T & P, machineries, lead and lift, mathadi Charges, curing, wastages,consumables, cleaning, shifting of debris outside the premises, surface preparation etc complete as per design, drawing & direction of EIC.			-			
		Ground Floor	Rmt	154.00	-	2,676.10		4,12,119.40
36	CPWD	Providing and fixing of expansion joint system (150 mm-200 mm wide) related with wall/soffit/ceiling joint(internal/external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members,aligning / centering arrangement and support plates as per ASTM B221-selfCharge.02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application,as well as horizontal covers for Soffits/ Ceilings both new and existing construction in Buildings/complexes/Structures 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 conform to ASTM 6063). The design			-			
		Ground Floor	Rmt	10.50	-	5,305.65		55,709.33

37	(DAR 2006-Page No-249 item-14)	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon			-			
		Ground Floor	Sqm	21.60	5,853.94		1,26,445.20	
		TERRACE	Sqm	16.80	5,853.94		98,346.27	
38	(DAR 2006-Page No-247 item-13)	Providing and fixing of partly fixed partly top hung and partly louvered windows of approved make to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyster paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and with all vertical and horizontal mullions are of 46x70 mm and fixed beadings are of 18x25 mm. Section for internal top and bottom frames in the louvered areas should be 18 x 40 mm. Top hung shutter should be of 46 x 46 mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle being made of high grade aluminium powder coated and with nylon receiver and gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The mullion caps and louvered-clips should be of glass filled nylon. The sections are to be cut to length,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by			-			
		Providing and fixing of 12mm thick Clear Tempered Glass Frameless Door With Decorative Fittings Decorative Premium (G111100)			-		-	
		Ground Floor	Sqm	9.72	5,885.10			
		Total					5,08,71,704.93	7,11,504.00

**CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT HALDI UPS, HALDI ,
BOLANGIR,ODISHA**

A. INTERNAL P.H. & SANITARY WORK					
Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
1	Providing and fixing Chlorinated Polyvinyl Chloride [CPVC] pipes SDR-11 conforming to IS:15778, having thermal stability for hot & cold water supply , including all CPVC plain & brass threaded fitting including fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes and fittings with one stp CPVC solvent cement and testing of joints complete as per specification and direction of Engineer-in-charge.				
	20 mm PVC sch-80 pipes	Mtr	70.0	362.97	25,407.76
	25 mm PVC sch-80 pipes	Mtr	70.0	503.62	35,253.68
	32 mm PVC sch-80 pipes	Mtr	100.0	692.90	69,289.60
	50 mm PVC sch-80 pipes	Mtr	120.0	1417.77	1,70,132.40
				0.00	
2	Supplying all materials,labour and T&P for cutting holes through existing brick work including making good to the same in cement mortar(1:4) for taking G.I. pipes and fittings /P.V.C. pipes and fittings all complete as per specification.			0.00	
	250mm Thick	Each	38.0	80.71	3,067.06
				0.00	
3	Supplying all materials,labour and T&P for cutting holes in R.C.C. floors and roofs up to 19 cm. thick including for passing GI / PVC pipes and fittings etc. and repairing the holes after insertion of pipes etc. with cement concrete 1:2:4 including finishing complete to make it leak proof leak to the damages all complete as per specification and direction of the Engineer-in-charge.			0.00	
		Each	7.0	258.54	1,809.77
				0.00	
4	Supplying all materials,labour and T&P for cutting groves in pucca floor and walls for taking G.I. pipes and fittings /P.V.C. pipes and fittings and making good to the damages all complete as per specification.			0.00	
		Mtr	70.0	330.16	23,111.48
				0.00	
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge.			0.00	
				0.00	
a)	Supplying all labour and T&P for fixing 2 in 1 bib cock of the following size as per specification all complete.			0.00	
		Each	16.0	1543.79	24,700.70
				0.00	
b)	Supplying all labour and T&P for fixing long body bib cock of the following size as per specification all complete.15mm Dia			0.00	
		Each	4.0	1272.28	5,089.10
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
c)	Supplying all labour and T&P for fixing CP Angular stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete. 15mm Dia			0	
		Each	28.0	1106.37	30,978.30
				0.00	
d)	Supplying fitting fixing of C.P Pillar Taps highpressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification. 15mm Dia			0	
		Each	17.0	1740.50	29,588.50
				0.00	
e)	Supplying all labour and T&P for fixing CP short body Bib cock [taps] polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete .			0	
		Each	3.0	1080.29	3,240.87
				0.00	
f)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete.) 25mm Dia	Each	6.0	810.78	4,864.67
				0.00	
g)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 32mm Dia	Each	4.0	1677.49	6,709.95
				0.00	
h)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 50mm Dia	Each	2.0	3687.62	7,375.24
				0.00	
i)	Providing and fixing C.P. Brass Extension Nipple 1 inch with extension piece as per direction of Engineer-in-charge.	Each	15.0	701.38	10,520.70
				0.00	
j)	Supplying fitting fixing of CP waste of the following noninal diameter for wash hand basin and sink as per specification.	Each	14.0	448.52	6,279.25
				0.00	
k)	Supplying all materials,labour and T&P for fixing CP Gratings of the following nominal diameter of outlet, of self cleaning design with sand cast iron screwed down or hinged grating with or without vent arm including cutting and making good to the walls and floors etc. all complete as per specification.			0	
		Each	38.0	1404.67	53,377.54
				0.00	
l)	Providing and fixing of approved make and model for Chrome plated Grab Bar,for Physically challenged toilet, The work shall include the cutting of walls or floors & making good, complete as per direction of Engineer in Charge.			0	
		Each	1.0	5177.18	5,177.18
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
6	Supplying fitting fixing of C.P health faucet high pressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification.			0.00	
	15mm dia CP Health Faucet of 1mtr long PVC tube			0	
		Each	8.0	955.56	7,644.51
				0.00	
7	Providing and fixing of Rational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701-1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts , fixing ball valve etc. including hoisting up to a height of 5.00metres above ground level and placing the tank to the required position etc. all complete as per specification and direction of the engineer-in-charge.			0.00	
i)	Overhead water storage tanks	Lit.	8000.0	16.04	1,28,329.63
	Extra over item no.3.1.8 for hoisting Rational moulded polyethylene cylindrical vertical water storage tanks of following sizes for every additional height of 5.00m. Or part thereof complete as per specification and direction of the engineer-in-charge.			0.00	
	Water storage tanks	Each	4.0	1472.64	5,890.56
8	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.			0.00	
	110mm diameter PVC SWR pipes	Mtr	105.0	461.73	48,482.07
	75mm diameter PVC SWR pipes	Mtr	90.0	286.62	25,795.98
	110mm PVC door Tee	Each	12.0	458.55	5,502.58
	75mm PVC door Tee	Each	5.0	345.74	1,728.70
	110mm PVC offset	Each	10.0	162.84	1,628.40
	110mm PVC door bend	Each	10.0	255.35	2,553.52
	75mm PVC door bend	Each	10.0	134.64	1,346.38
	110mm PVC plain shoe bend	Each	10.0	201.54	2,015.44
	75mm PVC plain shoe bend	Each	10.0	98.18	981.76
	110mm PVC vent cowl	Each	10.0	102.19	1,021.88
	75mm PVC vent cowl	Each	0.0	86.14	-
	110mm S-trap	Each	12.0	743.05	8,916.55
	110mm P-trap	Each	1.0	410.88	410.88
	110mm SWR Pipe Clip	Each	105.0	35.87	3,766.56
	75mm SWR Pipe Clip	Each	90.0	27.61	2,485.08
	110/75 mm Dia Reducer/Connector	Each	5.0	305.03	1,525.15
	90mm Nahani Trap	Each	33.0	171.81	5,669.66
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
9	Supplying all materials,labour and T&P for fixing of PVC 10 ltr capacity low level flushing cistern with manually controlled device[handle cover] confirming to IS 7231 with fittings and fixtures etc. all complete as per specification.			0.00	
	10 Liters capacity PVC cistern			0	
		Each	16.0	2306.07	36,897.18
				0.00	
10	Supplying all materials,labour and T&P for fixing water closet ,squatting pan(Indian type.W.C.pan or Orissa pan) confirming to IS 2556 : Part-3-2004 duly embedded in cement concrete (1:4:8) using 40mm.nominal size h.b.g. chips [including foot rest for I.W.C. and trap] all complete as per specificationand directon of theEngineer - in - charge.			0.00	
				0	
		Each	8.0	4528.49	36,227.89
				0.00	
11	Supplying all materials,labour and T&P for fixing in cement mortar (1:3) a pair of white vitereous china (250x130x30mm.) foot rest for squatting water closet. etc. all complete as per specificationand direction of the Engineer-in-charge.			0.00	
				0	
		Pair	8.0	661.86	5,294.90
				0.00	
12	Supplying all materials,labour and T&P for Supplying all materials,labour and T&P for fixing wash down water closet (European type W.C.) with integral "S" or "P" trap tothe floor with wooden plug and chromium plated screw including jointing the trap with soil pipe in cement mortar (1:1) etc. all complete as per specification.			0.00	
		Each	7.0	3747.21	26,230.46
				0.00	
13	Supplying all materials,labour and T&P for fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers all complete as per specification.			0.00	
		Each	7.0	1089.61	7,627.28
				0.00	
14	Supplying all materials,labour and T&P for fixing wash hand basin (SS Made) with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	12.0	5427.17	65,126.09
				0.00	
15	Supplying all materials,labour and T&P for fixing corner wash hand basin with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	4.0	3146.59	12,586.35
				0.00	

SI. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
16	Supplying all materials,labour and T&P for fixing Pedestal for wash hand basin complete recessed at the back for the receiptionof pipe and fittings etc. all complete as per specification including cost of pedestal for wash basin			0.00	
				0	
		Each	4.0	3093.84	12,375.37
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
17	Supplying all materials,labour and T&P for fixing of 600x450 bevelled edge mirror of superior glass mounted on 6mm thick ac sheet or ply wood sheet and fixed to wooden plugs with chromium plated brass screws and washers etc. All complete as per specification .			0	
	600mmx450mm size B.E.mirror			0	
		Each	12.0	2557.89	30,694.63
				0.00	
18	Supplying all materials,labour and T&P for fixing standard size glass self with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws and washers etc. all complete as per specification.			0.00	
		Each	13.0	946.01	12,298.08
				0.00	
19	Supplying all materials,labour and T&P for fixing standard size C. P. towel rail fixed with chromium plated brass brackets fixed to wooden plugs with cromium plated brass screws complete as per specification.			0.00	
				0	
		Each	8.0	1274.52	10,196.14
				0.00	
20	Supplying all materials,labour and T&P for fixing of cromium plated brass soap dish complete with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws as per specification.			0.00	
				0	
		Each	16.0	418.19	6,691.07
				0.00	
21	Supplying all materials,labour and T&P for fixing standard size C. P. towel ring fixed fixed to wooden plugs with cromium plated brass screws complete as per specification.	Nos	16.0	645.22	10,323.58
				0	
22	Supplying all materials,labour and T&P for fixing of liquid soap container - glass container or plastic container with chromium plated brass lid and brackets fixed to wooden plugs with chromium plated brass screws as per specification.	Nos	4.0	2086.83	8,347.32
				0.00	
23	Supplying all materials,labour and T&P for fixing stainless steel AISI 304 [18/8] Kitchen sink as per IS 13983 with cast iron bracet and stainless steel plug including painting of fittings and brackets ,cutting and making good to the walls etc. all as per specification including cost of sink with all accessories.			0	
		Nos	2.0	7267.86	14,535.71
				0.00	
24	Supplying all labour and T&P for fixing CP Concealed stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete.	Each	8.0	1326.32	10,610.56
				0.00	
25	Supplying all materials,labour and T&P for fixing Porcelain Urinal respectively with waste pipe by means of white lead mixed with chopped hemp etc. all complete as per specification.	Each	8.0	8961.16	71,689.25

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
				0.00	
26	Fixing standard size Chromium Plated brass or glazed porcelain Toilet paper holder fixed to woden plugs with Chromium Plated brass screws complete as per specification and direction of the Engineer in charge.	Each	2.0	1404.55	2,809.11
				0.00	
27	Providing and fixing approved quality E.W.C Matrix Set with grab bar set for Handicap (Accessible) Toilet consisting of stainless steel grab bars and support fittings required for differently-abled users, conforming to universal accessibility standards. The set shall include wall-mounted horizontal and vertical support bars near WC and wash basin area, made of SS 304 grade stainless steel with satin/matt finish, complete with necessary brackets, anchor fasteners, screws, bends, end caps, and accessories. The arrangement shall provide safe support and ease of movement for wheelchair users and physically challenged persons. Installation shall be done in proper alignment, level, and position as per approved drawings and accessibility guidelines, complete in all respects as per the direction of the Engineer in charge.	Each	1.0	94164.00	94,164.00

	Total Rs.				12,46,394.01

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT HALDI UPS, HALDI , BOLANGIR,ODISHA

EXTERNAL P.H. & SANITARY WORK					
B.					
Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
1	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap , Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per aproved drawing, specification and direction of Engineer-in-charge.				
	250mmx250mm with RCC cover	Each	10.00	2,069.60	20,696.02
				-	
2	Constructing inspection chamber with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			-	
	Inspection Chamber inside size 750mm x 750mm and 450mm	Each	8.00	15,995.84	1,27,966.75
				-	
3	Supplying all materials,labour and T&P for laying in trenches unplasticized PVC pipes and specials of the following outside dia. for all classes including jointing with approved solvent cement by non-heat application method including testing as per specification and direction of Engineer-in-charge etc. all complete. [including earth work and cost of pipes.			-	
a)	110 mm dia U-PVC pipes Class-3	mtr	60.00	1,182.95	70,977.00
b)	160 mm dia U-PVC pipes Class-3	mtr	30.00	2,524.02	75,720.60
				-	
4	Constructing manholes with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			-	
a)	Plain Manholes inside size 900mm x 800mm and 450mm deep	each	8.00	21,358.71	1,70,869.66
				-	
5	Construction of 50 Users Septic Tank (2 No.s)			-	
a)-i	Earth work in excavation in foundation trenches, column foundation, pit, etc in all kind of soil including moorum stony earth and earth mixed with boulders except sheet rock and boulders not requiring blasting including dressing of sides and levelling the bed up to the required depth and depositing the excavated materials away from the work site with initial lead of 50 mtr and all lifts, including shoring, shuttering & dewatering (if required) with cost of labour, labour cess, hire & running charges of all machineries, sundries & T&P required for the work complete as directed by the Engineer in charge.	Cum	56.88	433.73	24,670.71
a)-ii	Above 1.5mt. Depth	Cum	47.57	465.06	22,122.05
				-	
b)	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.	Cum	70.71	241.02	17,043.15
				-	
c)	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth, well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All compelete as per the dirrection of Engineer-in-charge.	Cum	2.96	1,486.25	4,396.32
				-	
d)	Providing and lying Plain Cement Concrete of proportion (1:4:8) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, taxes, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	2.96	7,855.22	23,235.75

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
				-	
e)	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	3.92	8,387.54	32,912.70
				-	
f)	Providing 12mm thick cement plaster in cement mortar (1:4) with neat cement punning including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, taxes, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.	Sqm	15.84	302.85	4,797.10
				-	
g)	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance, loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement			-	
i.	Base	Cum	5.47	9,502.71	51,941.83
ii.	Slab	Cum	4.14	17,549.11	72,651.75
iii.	Wall	Cum	11.00	16,552.43	1,82,076.77
h)	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).	Qtl.	42.45	13,275.28	5,63,509.78
				-	
i)	Supplying all materials, labour, T&P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	4.00	188.92	755.67
				-	
j)	Supplying all materials, labour, T&P and laying in trenches (to level or slope) and jointing with provision of stiff mixture of cement mortar in proportion of 1:1 for salt glazed stoneware pipes, Grade—A of the following internal diameters including testing of pipes and joints complete. 110mm diameter UPC pipe	Mtr	12.00	1,182.95	14,195.40
				-	
6	Constructing RCC soak way pit with R.C.C top slab in (1:2:4) mix, inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance ± 8 percent in cement mortar (1:4), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, complete as per specification.			-	
a)	RCC soak way pit of size 1.5m x 1.8m deep	each	8.00	11,927.91	95,423.30
				-	
	Borewell			-	
7	Supplying all materials,labour T&P and providing fitting submersible pump with squarrel cage inspection type submersible type submersible electric motor to run on 3 phase/1 phase line voltage rangingfrom 320 volt to 450 volt conforming to IS :8034/89			-	
a	One no. 3 phase 2 H.P 3 stage head range 30 to 54 mtr. Discharge 155 to 200 LMP with outlate dia 32mm.	Set	1	23,423.00	23,423.00
b	2.5 Sq mm cable.	Mtr	70	181.72	12,720.40
c	40mm dia steel short piece.	Each	2	238.36	476.72

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
d	Steel rope wit cover.	Mtr	70	41.77	2,924.04
e	Well Cap.	Each	1	238.36	238.36
f	50mm size CI bracket.	Each	1	143.02	143.02
g	20mm dia rigid HDPE pipes.	Mtr	70	117.76	8,243.48
h	Boring up to 30 mtr.	Mtr	30	1,050.55	31,516.62
i	Boring work Above 30 mtr.	Mtr	50	1,050.55	52,527.70
j	8" ASTM pipe SCH-80	Mtr	70	2,702.74	1,89,192.00
k	Delivery	Set	1	2,360.00	2,360.00
l	Labour charges for lowering of summerssible pumpset with pipes and cables etc with testing and commissioning at site.	Mtr	70	147.50	10,325.00

	Total Rs.				19,10,052.65

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT HALDI UPS, HALDI , BOLANGIR, ODISHA					
INTERNAL ELECTRICAL WORK FOR SCHOOL BUILDING					
Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	INTERNAL WIRING				
1	Recessed wiring to light point / first light of group control/ call bell point/ exhaust fan point /wall fan point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6 Amp, 250 V clip in type switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge.				
	Group C	Nos.	150	1,497.42	2,24,613.00
2	Recessed wiring to secondary light point looped from primary light point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including 3 plate ISI marked Ceiling rose with all accessories & connection as per direction of Engineer-in-charge. Average Length 2 mtr.	Nos.	55	564.04	31,022.20
				-	
3	Recessed wiring to ceiling fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch, Stepped type Moudular Regulator, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. Group c	Nos.	65	1,964.70	1,27,705.50
				-	
4	Recessed wiring to Twin control light point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6Amp, 250 V clip in type 2way switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer-in-charge. Group C	Nos.	10	2,017.80	20,178.00
				-	
5	Recessed wiring for 5 / 6 amp socket outlet with 6Amp, 250 V clip in type modular switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection on same switch board as per direction of Engineer-in-charge.	Nos.	53	682.04	36,148.12
				-	
6	Recessed wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection on separate board as per direction of Engineer-in-charge. Group C	Nos.	5	1,674.42	8,372.10
				-	
7	Recessed wiring for 2 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of Engineer-in-charge.	Nos.	35	1,251.98	43,819.30
				-	
8	Recessed wiring for 6 pin 16 amp socket outlet with 16Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection as per direction of Engineer-in-charge.	Nos.	20	1,083.24	21,664.80
				-	
9	Recessed wiring for A.C/ Power socket outlet with industrial type socket outlet, plug top and metal chained cover in sheet steel enclosure ,20A/32A SP MCB including all accesories and connection as per direction of Engineer-in-charge.	Nos.	5	1,293.28	6,466.40
10	Recessed wiring to exhaust fan/Wall Fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. Group C	Nos.	22	1,497.42	32,943.24
11	Call bell point	Nos.	3	1,689.76	5,069.28

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
12	Recessed wiring for 3 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accessories and connection on separate board as per direction of Engineer-in-charge.	Nos.	1	1,405.38	1,405.38
				-	-----
	SUB TOTAL			-	5,59,407.32
	SUBMAIN			-	
13	Recessed wiring to submain in 4 x 10 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	75	579.38	43,453.50
				-	
14	Recessed wiring to submain in 4 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	395.30	59,295.00
				-	
15	Recessed wiring to submain in 2 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 25 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	20	280.84	5,616.80
				-	
16	Recessed wiring to submain in 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	750	240.72	1,80,540.00
				-	
17	Recessed wiring to submain in 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	1850	219.48	4,06,038.00
				-	
18	Recessed wiring to submain in 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	202.96	30,444.00
				-	-----
	SUB TOTAL			-	7,25,387.30
				-	

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
19	DB			-	
	Supply and fixing of following way three pole and neutral, sheet steel, MCB distribution, 415 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic cover for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required with necessary MCB , RCCB / ISOLATORS as required. Note for MCB- There should be colour indication for tripping On ,Off & Trip/There should be mid trip position for toggles for electrical fault conditions.			-	
a)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For PDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-63A FP MCB (10KA) Outgoings-10/20A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
b)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For LDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
c)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For UPS DB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
	SUB TOTAL			-	1,50,198.66
	CABLE			-	
20	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 3.5core 150 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	200	2,289.20	4,57,840.00
21	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 3.5core 95 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	50	1,616.60	80,830.00
22	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 4 core 16 sq.mm Aluminium on surface as required.	Rmt	20	634.84	12,696.80
	SUB TOTAL			-	5,51,366.80
	END TERMINATION			-	
	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum cable of 1.1 KV as required.			-	
23	3.5C x 150 sq.mm	set	2	1,239.00	2,478.00
24	3.5C x 95 sq.mm	set	2	1,121.00	2,242.00
25	4C x 16 sq.mm	set	2	649.00	1,298.00
	SUB TOTAL			-	6,018.00
	PANEL			-	
	Supply, installation, testing & commissioning of floor mounting front operated front access extensible type cubicle panel totally enclosed, dust and vermin proof with IP-42 /55 protection with hinged and lockable doors. CRCA sheets including interconnections, tinned copper crimping lugs, bonding to earth and painting suitable for use at 415 V, 3phase 4 wire 50 Hz system, and to withstand a fault level of 35 KA symmetrical for 1 sec at 415 V complete as per specifications, as required and as below : All switchboards shall have provision for entry of cables from the bottom as required. All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The bus bars shall be insulated with heat shrinkable sleeves. SMC/DMC shrouds and busbar supports shall be used with Indication lamp, C.T , Digital Voltmeter, Digital Ammeter and control fuse etc. complete.			-	
26	MAIN PANEL with 150A 4P MCCB 36KA -1 No as incomer, 63A 4P MCB 10KA 4Nos, 100A 4P Change over Switch 1Nos, 40A 4P MCB 10KA-9Nos, 32A DP MCB 10KA-3Nos with E.C Busbars with 4nos 65KA VSD along with 4nos 32A SP MCB.	set	1	1,91,504.56	1,91,504.56

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	SUB TOTAL			-	1,91,504.56
				-	
	EARTHING			-	
27	Earthing with copper earth plate 600 mm x 600mm x 3.15 mm thick ISI marked including accessories and providing masonry with cover plate having loccking arrangement and watering pipe etc with charcoal and salt as required.	Set	4	16,233.26	64,933.04
28	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	Rmt	15	860.22	12,903.30
29	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked on surface or in recess for connection etc as required.	Rmt	50	923.94	46,197.00
30	Providing and fixing 8 SWG CU wire on surface or in recess for loop earthing as required.	Rmt	50	105.02	5,251.00
	SUB TOTAL			-	1,29,284.34
				-	
	FIXTURE			-	
	Supply, installation, testing and Commissioning of pre-wired fluorescent fitting / compact fluorescent fitting /LED fitting of all sizes complete with all accessories and lamp etc. directly on ceiling /wall or recessed in false ceiling , including connection with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor and earthing as required.			-	
31	Ceiling mounted indoor type batten type LED Luminaire with LED Lamp	Nos	130	554.60	72,098.00
32	Ceiling/ Wall mounted type BULK HEAD Luminaire	Nos	10	1,267.32	12,673.20
33	Supply, Installation, testing and commissioning of 10W Mirror Light	Nos	15	364.62	5,469.30
34	Supply, Installation, Testing and Commissioning of ceiling fan 1200mm sweep, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FR PVC insulated single core multiatrand copper conductors as required.BLDC FAN.	Nos	65	4,659.82	3,02,888.30
35	Supply, Installation, testing and commissioning of exhaust fan of 250 mm PLASTIC Exhaust Fan (Vntilation Fan) complete, connection, etc as required.250MM CRISP AIR EXH FAN.	Nos	17	2,109.84	35,867.28
36	Supply & fixing of 18W LED Down Light (S/R) with all accessories.	Nos	50	1,250.80	62,540.00
37	Supply & fixing of LED 36w 2'x2' Surface/Recessed Mounted Light as required .	Nos	15	2,269.14	34,037.10
38	Supply & fixing of 6W LED Down Light (S/R) with all accessories.	Nos	10	636.02	6,360.20
39	Supply, Installation, testing and commissioning of wall fan of 400 mm sweep as required.Model-400mm STRIKER HI SPEED.	Nos	5	3,645.02	18,225.10
	SUB TOTAL			-	5,50,158.48
	PERFORATED CABLE TRAY			-	
	Supply and installation of Pregalvanised Perforated type cable trays without cover. The rate shall include bends, Tees, all supporting brackets, anchor fasteners, screws, bolts, nuts etc., including painting of cable trays. Thickness of sheet steel shall be 2 mm. Support sizes			-	
40	Size of Cable Tray :300 mm x 50 mm	Rmtr	10	916.86	9,168.60
41	Size of Cable Tray :150 mm x 50 mm	Rmtr	40	712.72	28,508.80
	SUB TOTAL			-	37,677.40

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
				-	
	TV /TEL & DATA			-	
42	Supplying and fixing of clip in type modular Telephone socket ISI marked mounted on G.I modular box with face plate & cover of suitable size ,including all accesories and connection as per direction of Engineer in Charge.	Nos	10	450.76	4,507.60
43	Supplying and fixing of clip in type modular T.V. antenna socket ISI marked on mounted on G.I modular box with face plate & cover of suitable size , including all accesories and connection as per direction of Engineer in Charge.	Nos	10	462.56	4,625.60
44	Supplying and drawing 4 pair, 0.5 sq.mm FR PVC insulated coper conductor, unarmoured telephone cable in existing surface / recessed PVC conduit as required.	Rmt	250	53.10	13,275.00
45	Recessed wiring to television point with cable RG-6 grade, 0.7 mm solid copper conductor PE insulated shielded with fine tined copper braid and protected with FR PVC sheath in in existing surface / recessed PVC conduit as required as per direction of Engineer in Charge.	Rmt	150	47.20	7,080.00
46	Supplying and fixing of following sizes PVC conduit along with accessories in recessed wiring including cutting the wall and making good the same in case of recessed conduit as required.			-	
	20mm	Rmt	250	121.54	30,385.00
47	Supplying and fixing of 16 / 18 SWG metal box of 200 mm x 150 mm x 60 mm deep on surface / recess with suitable size of phenolic laminated sheet cover in front including cutting the wall and making good the same in case of recessed conduit as required. (Tel junction Box)	Nos	1	212.40	212.40
48	Supplying & Commissioning of Telephone Hand Set.	Nos	10	866.12	8,661.20
49	Supplying & installation of 100 pair KRONE make moudles with locking & key arrangements fabricated with MS sheet & powder coated to be fixed on concealed manner incl. good the damages.	set	1	2,950.00	2,950.00
50	SITC of 4 pair Cat6 23 awg U/UTP LSZH Cable in the existing surface/ recessed steel/ PVC conduit as required: The 4 pair Unshielded Twisted Pair cable shall be UL Listed,exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E , 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must,Insertion Loss of 32.8 db/100m at 250 MHz ,Cable should support operating temperature from -20° to +70°C Cable support Conductor Resistance ≤ 9.38 Ω/100m Max., Cable support Delay Skew: < 45 ns/100m, Operating Voltage: 72V , Impedance: 100 ± 15 Ω @100 MHz. and Propagation Delay @250 MHz : 536 ns/100m ETL Verified 4 connector channel performance up to	Mtr	750	97.94	73,455.00
51	Supply & fixing of RJ-45Jack of Category 6 with Dual-port British-style Face plate 86x86 mm with Curveture and wall mount box.	Nos	20	1,117.46	22,349.20
	SUB TOTAL				1,67,501.00

	TOTAL INTERNAL ELECTRICAL WORK=				30,68,503.86

**CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT TENDAPADAR GOVERNMENT UGHS, TENDAPADAR,PATNAGARH,
BOLANGIR, ODISHA.**

BILL OF QUANTITIES (CIVIL WORK)								
Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
1	Item No. 16 & Page No. 19	Excavation, loading, unloading and carriage by mechanical means of all kinds of soil, including stoney earth, gravel and moorum etc interspread with boulders upto 1/2 cum size with all lifts and delifts including trimming of slopes and bed to design section and depositing the the excavated materials away from work site as per the specification and as directed by the Engineer- in-charge within an initial lead of 1km from the place of excavation complete.						
		Ground Floor	Cum	2645.49	117.41		3,10,606.98	
		C.WALL	Cum	136.79	117.41		16,060.51	
2	Ref:AOR(ODisha)/I.Earth Work-14,Page No-8	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	Cum	881.83	204.26		1,80,120.83	
3	Item No. 16 & Page No. 19	Filling the Foundation, Sides of Foundation, etc. in mechanical means with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of machinery, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-			
		Ground Floor	Cum	1763.66	117.41		2,07,071.32	
		C.WALL	Cum	91.19	117.41		10,706.62	
4		Supplying, diluting and preparing chemical emulsion like Imidacloprid 30.5 % SC or other chemicals approved by Central Insecticides Board or as directed by the manufacturer and spraying the mixture uniformly by sprayer as Pre/Post-Constructional Anti-termite Treatment confirming to IS 6313 (Part-II) including the cost of all materials, cost of all labour, conveyance, loading, unloading, T&P, etc. all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	sqm	1818.06	-		104.50	1,89,987.27
5	Ref:AOR(ODisha)/I.Earth Work-15,Page No-8	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth , well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the dirrection of Engineer-in-charge.			-		-	
		Ground Floor	Cum	177.27	747.53		1,32,514.64	
		C.WALL	Cum	6.62	747.53		4,948.65	
6	Ref:AOR(ODisha)/III-Concrete -3,Page No-43	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.			-		-	
		Ground Floor	Cum	428.91	6,892.03		29,56,058.87	
		C.WALL	Cum	11.63	6,892.03		80,154.26	
		RCC WORK			-		-	

7	Ref:AOR(O disha)/IV- RCC-10- iv,Page No- 54	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance,loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement.			-	-	
		(A)R.C.C. foundation and footing bases of columns mass concrete pre-cast slab etc.			-	-	
		Ground Floor	Cum	343.45	7,850.54		26,96,267.96
		C.WALL	Cum	9.00	7,850.54		70,654.86
		R.C.C. Plinth Beam			-		-
		Ground Floor	Cum	135.85	8,882.45		12,06,680.83
		C.WALL	Cum	5.63	8,882.45		50,008.19
		(B)R.C.C. Column &cRoof Beam			-		-
		Ground Floor	Cum	269.33	18,922.36		50,96,359.76
		C.WALL	Cum	3.09	18,922.36		58,470.10
		Terrace	Cum	34.40	21,372.40		7,35,210.42
		(C) R.C.C. Slab			-		-
		Ground Floor	Cum	242.35	14,669.64		35,55,187.74
		C.WALL	Cum	0.42	14,669.64		6,161.25
		Terrace	Cum	13.65	16,269.13		2,22,073.65
		(D)R.C.C. Staircase			-		-
		Ground Floor	Cum	10.09	18,759.76		1,89,285.96
		(E)R.C.C. lintel			-		-
		Ground Floor	Cum	33.16	16,952.82		5,62,155.64
		Terrace	Cum	0.97	19,009.09		18,438.82
		(F)R.C.C. Fins			-		-
		Ground Floor	Cum	17.02	13,825.00		2,35,301.47
8	Ref:AOR(O disha)/IV- RCC- 9,Page No- 52	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).			-	-	
		Ground Floor	Qntl	977.97	11,250.24		1,10,02,395.26
		C.WALL	Qntl	22.54	11,250.24		2,53,580.36
		Terrace	Qntl	76.47	11,290.44		8,63,379.99
		BRICK WORK			-		-
9	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying Brick Masonry work in Foundation & Plinth using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge.			-	-	
		Ground Floor	Cum	194.50	7,198.35		14,00,079.85
		C.WALL	Cum	17.34	7,198.35		1,24,819.46

10	Ref:AOR(O disha)/VI- Brick Work- 02,Page No- 71	Providing and laying Brick masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:4) for Half Brick Masonry Wall with provisions for 2 nos 6mm dia MS bar at each 4th layer after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge. (Excluding Cost Of Steel Reinforcement).			-		-	
		Ground Floor	Cum	34.41	7,492.76		2,57,826.01	
11	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying of Full Brick Masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties.			-		-	
		Ground Floor	Cum	453.25	7,237.65		32,80,463.96	
		C.WALL	Cum	25.88	7,237.65		1,87,310.33	
		Terrace	Cum	158.97	7,693.13		12,22,976.56	
12	Ref:AOR(O disha)/X- Plastering- 27,Page No- 109	Providing 6 mm thick Cement Plaster in Cement Mortar of (1:4) to Ceilings of Roof Slabs, Stairs, Landings, Chajja, Shelves, Columns, Beams and Lofts etc. including roughening, scraping and cleaning and finishing the plastered surface smooth using wooden floats only to proper plumbs and level, making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading and royalties, all labour, scaffolding, watering and curing , sundries, T&P etc. complete as per direction of the Engineer-in-charge			-		-	
		Ground Floor	Sqm	83.59	253.70		21,206.78	
		C.WALL	Sqm	64.71	253.70		16,416.93	
13	Ref:AOR(O disha)/X- Plastering- 16,Page No- 106	Providing 12mm thick cement plaster in cement mortar (1:4) to the surface of half brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.			-		-	
		Ground Floor	Sqm	2147.18	239.78		5,14,842.23	
		C.WALL	Sqm	3209.45	245.32		7,87,348.69	
14	Ref:AOR(O disha)/X- Plastering- 14,Page No- 105	Providing 16mm thick cement plaster in cement mortar (1:6) to the surfaces of brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.(inner side)			-		-	
		Ground Floor	Sqm	3559.07	326.27		11,61,217.77	
		C.WALL	Sqm	202.50	326.27		66,069.68	
		C.WALL	Sqm	170.16	334.65		56,943.70	

15	CCE LEVEL COMMITTEE MEETING HELD ON 12.02.2024 AT 11 AM	Waterproofing application:- Providing and application of two component polymer odified flexible cementitious waterproofing coating at a thickness of 1.5-2.5 mm The membrane hould have Elongation equal or more than: 30% etc.as per direction of E.I.C (For longer span, in errace panel of 4m*4m should be done by roovecutting, and filling with PU Sealant) Crack Bridging ability: Up to 1 mm Adhesive strength: 1.0 N/mm² @ 28d Tensile elongation: 60% @ 20°C Shore A Hardness >85 (between 3-7 days)			-	-		
		Terrace	Sqm	1874.36	578.20		10,83,754.95	
		FINISHING WORK			-		-	
16	Ref: OPWD/Revised Analysis of Rate/Ch-XIX-SI. No.2	Supplying and finishing the plastered surface of wall using 2 Coats of Cement Based Wall Putty (Water Based) of approved make and quality and finished smooth and even surface to receive the paint including the cost of all materials, cost of all labour, conveyance, taxes, loading, unloading, scaffolding, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-	-		
		Interior Wall Putty			-		-	
		Ground Floor	Sqm	5096.62	76.11		3,87,903.75	
		C.WALL	Sqm	170.16	78.35		13,332.38	
17	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Providing and applying 2 coats plastic emulsion paint of approved quality and shade over a coat of wall primer of approved quality to surfaces (interior) including thoroughly brushing the surface free from foreign materials, sand papering smooth the intermediate coats, providing necessary putty & primer including of all materials, labour, conveyance,royalties, scaffolding, watering, curing, sundries, tools and plants etc as per the direction of Engineer-in-charge. (colour & shade to be approved before procurment & use)			-	-		
		Ground Floor	Sqm	5168.33	229.04		11,83,743.97	
		First Floor	Sqm	267.94	234.11		62,727.97	
18	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Providing and Painting with Two Coats Weather Coat Paint (exterior grade) of approved make & shade manufactured by reputed manufacturer make an even finished surface over a coat of water bound cement primer and wall putty in all heights with all scaffolding and staging charges including cost, conveyance, cost of all labours, T & P, sundries etc. as required for the work complete.			-	-		
		Ground Floor	Sqm	2446.95	219.72		5,37,634.07	
		TERRACE	Sqm	267.21	219.72		58,710.31	
		First Floor	Sqm	1350.36	228.09		3,08,009.01	
19	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Painting two coats of synthetic enamel paint over Iron Works as per approved shade of approved quality over a coat of primer, sand papering, polishing the surface including cost, conveyance,labour, T&P, scaffolding etc. as required for the work complete as per direction of Engineer-in-charge. (The paints and primer are to be approved before procurement and use)			-	-		
		Ground Floor	Sqm	201.09	317.42		63,829.99	
		C.WALL	Sqm	44.41	317.42		14,096.62	
		First Floor	Sqm	25.62	323.20		8,280.44	
20	Ref: Revised Analysis of Rate (Ch-XIX/SI. No./1 -b)	Providing and laying of 600 mm x 600 mm Vitrified Floor Tiles Matt Finish Anti Skid Plain Series confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-		
		Ground Floor	Sqm	775.10	1,346.62		10,43,762.06	

21	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying of Vitrified Tiles Matt Finish Plain Series in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 600mm x 600mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	73.80	1,508.16		1,11,302.06	
22	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mmx300mm antiskid ceramic floor Tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	82.32	1,292.10		1,06,365.67	
23	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Ceramic wall tile With Epoxy Grout For Toilet Providing and laying of Glazed Ceramic Wall Tiles in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 300mm x 450mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	318.76	1,445.74		4,60,842.81	
24	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing & laying Heavy Duty Vetrified Floor Tile Matt Finish Rustic Series having thickness 10mm confirming to IS 4457 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces with oxlaic acid, machine grinding, mirror polishing including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	662.15	1,454.11		9,62,841.59	

25	Ref: OPWD/Analysis of Rate/Page No.90	Providing & laying Heavy Duty Vetrified Tile Matt Finish Rustic Series having thickness 10mm in dado/skirting confirming to IS : 15622 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 12mm thick cement mortar (1:3) (1 cement: 3 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	75.83	1,615.89		1,22,533.09	
26	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mm x 300mm Chequered Tiles. tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	136.51	803.34		1,09,664.49	
27		Providing & laying granite stone flooring in Floors and landing using 19-20 mm thick granite stone slab of approved quality, colour and size above 0.4 Sqm as per IS 14223 laid over an under layer of 20 mm thick cement mortar (1:4) (1 cement: 4 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of granite tiles shall be approved before procurement and use.)			-		-	
		Ground Floor	Sqm	9.45	3,708.98		35,049.82	
		BUILT IN JOINERIES			-		-	

28	Ref: DAR-SH-26.86.6	Providing and fixing 65mm X 125mm factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceasetory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.			-	-	
		Ground Floor	Rmt	99.75	1,398.77		1,39,527.51
29	Ref: DAR-SH-26.88.1 2023	Providing and fixing of 30 mm thick factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with SS 304 Grade Matt Finished 3 Nos butt hinges of Size 100mm X 60mm X 2.5mm, 1 No 250mm X 16mm Aldrop, 1 No 150mm x 16mm tower bolt, 2 No 150mm length Door handle with necessary full body threaded star headed counter sunk S.S screws, floor/hanging door stopper & hydraulic door closer as required and mentioned in architectural drawing all as per direction of Engineer-In- Charge.			-	-	
		Ground Floor	Sqm	139.28	6,179.07		8,60,620.87
30		Supplying and fixing of Powder coated 50-60 microns approved colour of aluminium 40mm Casement series Door Unit with suitable aluminium extrude profiles. the system is designed to accommodate 12mm clear toughened glass. the rate quoted inclusive of hardwares like antilift, roller, Espag lock cum handle, epdm gaskets, T mullion, Fly Mullion, bottom adopter, mid transom, glazing clip for 12 mm glass felt along with all accessories etc complete. The gap between the wall and window will be filled with silicon weather sealant in the outer side. including the cost of all materials ,hardware fittings, cost of all labour, conveyance, loading, un loading, T&P, etc, complete as per the direction of Engineer-in Charge.(As per Proceeding of C.C.E. Level committee meeting held on dt. 12.02.2024 at 11.30 A.M.)			-	-	
		Ground Floor	Sqm	4.32	-	12,427.80	53,688.10
31	Item No. 16 & Page No. 19	Supplying, fitting and fixing of M.S. grill ,Grated doors etc made out of M.S. flats/square bars as per drawing and design fixed in position to proper plumb with cost, conveyance, Materials, labour, T&P etc. required for the complete in all respect as per the direction of Engineer-in-Charge.			-	-	
		Ground Floor	Kg	8202.65	117.19		9,61,234.10
		C.WALL	Kg	3683.16	117.19		4,31,614.05
		Terrace	Kg	946.80	117.19		1,10,951.52

32		Supplying, fabricating & fixing of polished stainless steel (304 grade) items made out of pipes, angles, flats, plates, hollow tube, square pipe bracing as per approved design and specification, buffing, polishing etc. with cost, conveyance, labour in railing, parapet, staircase, space frame etc required for the work complete in all respect as per direction of Engineer-in-charge.			-		-	
		Ground Floor	Kg	468.01	405.68		1,89,864.17	
33	SOR Sl. No 12 Page- 235	Supplying , fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame, shutters and all fitting and fixtures.			-		-	
		Ground Floor	Sqm	147.15	5,853.94		8,61,407.95	
34		Providing and fixing barbed wire fencing on R.C.C. (1:2:4) fencing posts with chips 1.68M long 13cm x 13cm at bottom and 8cm x 8cm at top and 30cm 30cm x 8 cm base finished smooth by means of staples and staining hooks by means of tying with G.I wire and including cost of barbed wire, staples, hooks, tying wires and labour, post etc complete in all respect as per the direction of the Engineer-in-charge.			-			
		Length of Barbed Fencing	Rmt	300.00	1,021.94		3,06,581.37	
35	Market Rate	Supplying, Providing and installing of modified flexible polyolefin (FPO) membrane system (Water Proofing tape) which shall be designed to be bonded over expansion and movement joints upto 200 mm in structures to prevent the passage of water having elongation at break more than 600%, maximum permissible permanent elongation shall not less than 20% and having resistance to aggressive conditions like ground water, soil, cement water, bitumen and bitumen emulsion coatings .It is bonded in position using two part epoxy adhesive and consumption of adhesive shall be as per manufacturers direction after proper fixing of the necessary back up materials as specified and directed by the EIC.The item rate shall be including all materials, all kinds of labours, T & P, machineries, lead and lift, mathadi Charges, curing, wastages,consumables, cleaning, shifting of debris outside the premises, surface preparation etc complete as per design, drawing & direction of EIC.			-			
		Ground Floor	Rmt	154.00	-	2,676.10		4,12,119.40
36	CPWD	Providing and fixing of expansion joint system (150 mm-200 mm wide) related with wall/soffit/ceiling joint(internal/external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members,aligning / centering arrangement and support plates as per ASTM B221-selfCharge.02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application,as well as horizontal covers for Soffits/ Ceilings both new and existing construction in Buildings/complexes/Structures 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 conform to ASTM 6063). The design			-			
		Ground Floor	Rmt	10.50	-	5,305.65		55,709.33

37	(DAR 2006-Page No-249 item-14)	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon			-			
		Ground Floor	Sqm	21.60	5,853.94		1,26,445.20	
		TERRACE	Sqm	16.80	5,853.94		98,346.27	
38	(DAR 2006-Page No-247 item-13)	Providing and fixing of partly fixed partly top hung and partly louvered windows of approved make to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyster paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and with all vertical and horizontal mullions are of 46x70 mm and fixed beadings are of 18x25 mm. Section for internal top and bottom frames in the louvered areas should be 18 x 40 mm. Top hung shutter should be of 46 x 46 mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle being made of high grade aluminium powder coated and with nylon receiver and gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The mullion caps and louvered-clips should be of glass filled nylon. The sections are to be cut to length,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by providing and fixing of 12mm dia Clear Reinforced			-			
		Glass Frameless Door With Decorative Fittings Decorative Premium (G111100)			-		-	
		Ground Floor	Sqm	9.72	5,885.10			
		Total					5,05,78,354.95	7,11,504.00

**CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT TENDAPADAR GOVERNMENT UGHS,
TENDAPADAR,PATNAGARH, BOLANGIR, ODISHA.**

A.	INTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
1	Providing and fixing Chlorinated Polyvinyl Chloride [CPVC] pipes SDR-11 conforming to IS:15778, having thermal stability for hot & cold water supply , including all CPVC plain & brass threaded fitting including fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes and fittings with one stp CPVC solvent cement and testing of joints complete as per specification and direction of Engineer-in-charge.				
	20 mm PVC sch-80 pipes	Mtr	70.0	362.97	25,407.76
	25 mm PVC sch-80 pipes	Mtr	70.0	503.62	35,253.68
	32 mm PVC sch-80 pipes	Mtr	100.0	692.90	69,289.60
	50 mm PVC sch-80 pipes	Mtr	120.0	1417.77	1,70,132.40
				0.00	
2	Supplying all materials,labour and T&P for cutting holes through existing brick work including making good to the same in cement mortar(1:4) for taking G.I. pipes and fittings /P.V.C. pipes and fittings all complete as per specification.			0.00	
	250mm Thick	Each	38.0	81.18	3,084.99
				0.00	
3	Supplying all materials,labour and T&P for cutting holes in R.C.C. floors and roofs up to 19 cm. thick including for passing GI / PVC pipes and fittings etc. and repairing the holes after insertion of pipes etc. with cement concrete 1:2:4 including finishing complete to make it leak proof leak to the damages all complete as per specification and direction of the Engineer-in-charge.			0.00	
		Each	7.0	257.95	1,805.64
				0.00	
4	Supplying all materials,labour and T&P for cutting groves in pucca floor and walls for taking G.I. pipes and fittings /P.V.C. pipes and fittings and making good to the damages all complete as per specification.			0.00	
		Mtr	70.0	322.85	22,599.36
				0.00	
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge.			0.00	
				0.00	
a)	Supplying all labour and T&P for fixing 2 in 1 bib cock of the following size as per specification all complete.			0.00	
		Each	16.0	1543.79	24,700.70
				0.00	
b)	Supplying all labour and T&P for fixing long body bib cock of the following size as per specification all complete.15mm Dia			0.00	
		Each	4.0	1272.28	5,089.10
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
c)	Supplying all labour and T&P for fixing CP Angular stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete. 15mm Dia			0	
		Each	28.0	1106.37	30,978.30
				0.00	
d)	Supplying fitting fixing of C.P Pillar Taps highpressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification. 15mm Dia			0	
		Each	17.0	1740.50	29,588.50
				0.00	
e)	Supplying all labour and T&P for fixing CP short body Bib cock [taps] polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete .			0	
		Each	3.0	1080.29	3,240.87
				0.00	
f)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete.) 25mm Dia	Each	6.0	810.78	4,864.67
				0.00	
g)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 32mm Dia	Each	4.0	1677.49	6,709.95
				0.00	
h)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 50mm Dia	Each	2.0	3687.62	7,375.24
				0.00	
i)	Providing and fixing C.P. Brass Extension Nipple 1 inch with extension piece as per direction of Engineer-in-charge.	Each	15.0	701.38	10,520.70
				0.00	
j)	Supplying fitting fixing of CP waste of the following noninal diameter for wash hand basin and sink as per specification.	Each	14.0	448.52	6,279.25
				0.00	
k)	Supplying all materials,labour and T&P for fixing CP Gratings of the following nominal diameter of outlet, of self cleaning design with sand cast iron screwed down or hinged grating with or without vent arm including cutting and making good to the walls and floors etc. all complete as per specification.			0	
		Each	38.0	1404.67	53,377.54
				0.00	
l)	Providing and fixing of approved make and model for Chrome plated Grab Bar,for Physically challenged toilet, The work shall include the cutting of walls or floors & making good, complete as per direction of Engineer in Charge.			0	
		Each	1.0	5177.18	5,177.18
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
6	Supplying fitting fixing of C.P health faucet high pressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification.			0.00	
	15mm dia CP Health Faucet of 1mtr long PVC tube			0	
		Each	8.0	955.56	7,644.51
				0.00	
7	Providing and fixing of Rational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701-1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts , fixing ball valve etc. including hoisting up to a height of 5.00metres above ground level and placing the tank to the required position etc. all complete as per specification and direction of the engineer-in-charge.			0.00	
i)	Overhead water storage tanks	Lit.	8000.0	16.04	1,28,329.63
	Extra over item no.3.1.8 for hoisting Rational moulded polyethylene cylindrical vertical water storage tanks of following sizes for every additional height of 5.00m. Or part thereof complete as per specification and direction of the engineer-in-charge.			0.00	
	Water storage tanks	Each	4.0	1472.64	5,890.56
8	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.			0.00	
	110mm diameter PVC SWR pipes	Mtr	105.0	461.73	48,482.07
	75mm diameter PVC SWR pipes	Mtr	90.0	286.62	25,795.98
	110mm PVC door Tee	Each	12.0	458.55	5,502.58
	75mm PVC door Tee	Each	5.0	345.74	1,728.70
	110mm PVC offset	Each	10.0	162.84	1,628.40
	110mm PVC door bend	Each	10.0	255.35	2,553.52
	75mm PVC door bend	Each	10.0	134.64	1,346.38
	110mm PVC plain shoe bend	Each	10.0	201.54	2,015.44
	75mm PVC plain shoe bend	Each	10.0	98.18	981.76
	110mm PVC vent cowl	Each	10.0	102.19	1,021.88
	75mm PVC vent cowl	Each	0.0	86.14	-
	110mm S-trap	Each	12.0	743.05	8,916.55
	110mm P-trap	Each	1.0	410.88	410.88
	110mm SWR Pipe Clip	Each	105.0	35.87	3,766.56
	75mm SWR Pipe Clip	Each	90.0	27.61	2,485.08
	110/75 mm Dia Reducer/Connector	Each	5.0	305.03	1,525.15
	90mm Nahani Trap	Each	33.0	171.81	5,669.66
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
9	Supplying all materials,labour and T&P for fixing of PVC 10 ltr capacity low level flushing cistern with manually controlled device[handle cover] confirming to IS 7231 with fittings and fixtures etc. all complete as per specification.			0.00	
	10 Liters capacity PVC cistern			0	
		Each	16.0	2306.07	36,897.18
				0.00	
10	Supplying all materials,labour and T&P for fixing water closet ,squatting pan(Indian type.W.C.pan or Orissa pan) confirming to IS 2556 : Part-3-2004 duly embedded in cement concrete (1:4:8) using 40mm.nominal size h.b.g. chips [including foot rest for I.W.C. and trap] all complete as per specificationand directon of theEngineer - in - charge.			0.00	
				0	
		Each	8.0	4528.49	36,227.89
				0.00	
11	Supplying all materials,labour and T&P for fixing in cement mortar (1:3) a pair of white vitereous china (250x130x30mm.) foot rest for squatting water closet. etc. all complete as per specificationand direction of the Engineer-in-charge.			0.00	
				0	
		Pair	8.0	661.86	5,294.90
				0.00	
12	Supplying all materials,labour and T&P for Supplying all materials,labour and T&P for fixing wash down water closet (European type W.C.) with integral "S" or "P" trap tothe floor with wooden plug and chromium plated screw including jointing the trap with soil pipe in cement mortar (1:1) etc. all complete as per specification.			0.00	
		Each	7.0	3747.21	26,230.46
				0.00	
13	Supplying all materials,labour and T&P for fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers all complete as per specification.			0.00	
		Each	7.0	1089.61	7,627.28
				0.00	
14	Supplying all materials,labour and T&P for fixing wash hand basin (SS Made) with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	12.0	5427.17	65,126.09
				0.00	
15	Supplying all materials,labour and T&P for fixing corner wash hand basin with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	4.0	3146.59	12,586.35
				0.00	

SI. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
16	Supplying all materials,labour and T&P for fixing Pedestal for wash hand basin complete recessed at the back for the receiptionof pipe and fittings etc. all complete as per specification including cost of pedestal for wash basin			0.00	
				0	
		Each	4.0	3093.84	12,375.37
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
17	Supplying all materials,labour and T&P for fixing of 600x450 bevelled edge mirror of superior glass mounted on 6mm thick ac sheet or ply wood sheet and fixed to wooden plugs with chromium plated brass screws and washers etc. All complete as per specification .			0	
	600mmx450mm size B.E.mirror			0	
		Each	12.0	2557.89	30,694.63
				0.00	
18	Supplying all materials,labour and T&P for fixing standard size glass self with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws and washers etc. all complete as per specification.			0.00	
		Each	13.0	946.01	12,298.08
				0.00	
19	Supplying all materials,labour and T&P for fixing standard size C. P. towel rail fixed with chromium plated brass brackets fixed to wooden plugs with cromium plated brass screws complete as per specification.			0.00	
				0	
		Each	8.0	1274.52	10,196.14
				0.00	
20	Supplying all materials,labour and T&P for fixing of cromium plated brass soap dish complete with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws as per specification.			0.00	
				0	
		Each	16.0	418.19	6,691.07
				0.00	
21	Supplying all materials,labour and T&P for fixing standard size C. P. towel ring fixed fixed to wooden plugs with cromium plated brass screws complete as per specification.	Nos	16.0	645.22	10,323.58
				0	
22	Supplying all materials,labour and T&P for fixing of liquid soap container - glass container or plastic container with chromium plated brass lid and brackets fixed to wooden plugs with chromium plated brass screws as per specification.	Nos	4.0	2086.83	8,347.32
				0.00	
23	Supplying all materials,labour and T&P for fixing stainless steel AISI 304 [18/8] Kitchen sink as per IS 13983 with cast iron bracet and stainless steel plug including painting of fittings and brackets ,cutting and making good to the walls etc. all as per specification including cost of sink with all accessories.			0	
		Nos	2.0	7267.86	14,535.71
				0.00	
24	Supplying all labour and T&P for fixing CP Concealed stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete.	Each	8.0	1326.32	10,610.56
				0.00	
25	Supplying all materials,labour and T&P for fixing Porcelain Urinal respectively with waste pipe by means of white lead mixed with chopped hemp etc. all complete as per specification.	Each	8.0	8961.16	71,689.25

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
				0.00	
26	Fixing standard size Chromium Plated brass or glazed porcelain Toilet paper holder fixed to woden plugs with Chromium Plated brass screws complete as per specification and direction of the Engineer in charge.	Each	2.0	1404.55	2,809.11
				0.00	
27	Providing and fixing approved quality E.W.C Matrix Set with grab bar set for Handicap (Accessible) Toilet consisting of stainless steel grab bars and support fittings required for differently-abled users, conforming to universal accessibility standards. The set shall include wall-mounted horizontal and vertical support bars near WC and wash basin area, made of SS 304 grade stainless steel with satin/matt finish, complete with necessary brackets, anchor fasteners, screws, bends, end caps, and accessories. The arrangement shall provide safe support and ease of movement for wheelchair users and physically challenged persons. Installation shall be done in proper alignment, level, and position as per approved drawings and accessibility guidelines, complete in all respects as per the direction of the Engineer in charge.	Each	1.0	94164.00	94,164.00

	Total Rs.				12,45,895.70

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT TENDAPADAR GOVERNMENT UGHS, TENDAPADAR,PATNAGARH, BOLANGIR, ODISHA.					
B.	EXTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
1	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap , Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per aproved drawing, specification and direction of Engineer-in-charge.				
	250mmx250mm with RCC cover	Each	10.00	2,092.61	20,926.12
				-	
2	Constructing inspection chamber with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			-	
	Inspection Chamber inside size 750mm x 750mm and 450mm	Each	8.00	15,922.33	1,27,378.64
				-	
3	Supplying all materials,labour and T&P for laying in trenches unplasticized PVC pipes and specials of the following outside dia. for all classes including jointing with approved solvent cement by non-heat application method including testing as per specification and direction of Engineer-in-charge etc. all complete. [including earth work and cost of pipes.			-	
a)	110 mm dia U-PVC pipes Class-3	mtr	60.00	1,161.83	69,709.68
b)	160 mm dia U-PVC pipes Class-3	mtr	30.00	2,470.57	74,116.98
				-	
4	Constructing manholes with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			-	
a)	Plain Manholes inside size 900mm x 800mm and 450mm deep	each	8.00	21,248.73	1,69,989.86
				-	
5	Construction of 50 Users Septic Tank (2 No.s)			-	
a)-i	Earth work in excavation in foundation trenches, column foundation, pit, etc in all kind of soil including moorum stony earth and earth mixed with boulders except sheet rock and boulders not requiring blasting including dressing of sides and levelling the bed up to the required depth and depositing the excavated materials away from the work site with initial lead of 50 mtr and all lifts, including shoring, shuttering & dewatering (if required) with cost of labour, labour cess, hire & running charges of all machineries, sundries & T&P required for the work complete as directed by the Engineer in charge.	Cum	56.88	433.73	24,670.71
a)-ii	Above 1.5mt. Depth	Cum	47.57	465.06	22,122.05
				-	
b)	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.	Cum	70.71	241.02	17,043.15
				-	
c)	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth, well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the dirrection of Engineer-in-charge.	Cum	2.96	882.09	2,609.21
				-	
d)	Providing and lying Plain Cement Concrete of proportion (1:4:8) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, taxes, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	2.96	7,600.42	22,482.03

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
				-	
e)	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	3.92	8,132.59	31,912.29
				-	
f)	Providing 12mm thick cement plaster in cement mortar (1:4) with neat cement punning including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, taxes, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.	Sqm	15.84	293.80	4,653.73
				-	
g)	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance, loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement			-	
i.	Base	Cum	5.47	9,263.64	50,635.04
ii.	Slab	Cum	4.64	17,310.18	80,388.46
iii.	Wall	Cum	21.33	16,313.50	3,48,015.85
h)	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).	Qtl.	42.45	13,275.28	5,63,509.78
				-	
i)	Supplying all materials, labour, T&P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	4.00	188.92	755.67
				-	
j)	Supplying all materials, labour, T&P and laying in trenches (to level or slope) and jointing with provision of stiff mixture of cement mortar in proportion of 1:1 for salt glazed stoneware pipes, Grade—A of the following internal diameters including testing of pipes and joints complete. 110mm diameter UPC pipe	Mtr	12.00	1,161.83	13,941.94
				-	
6	Constructing RCC soak way pit with R.C.C top slab in (1:2:4) mix, inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance ± 8 percent in cement mortar (1:4), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, complete as per specification.			-	
a)	RCC soak way pit of size 1.5m x 1.8m deep	each	8.00	11,843.66	94,749.28
				-	
	Borewell			-	
7	Supplying all materials,labour T&P and providing fitting submersible pump with squarrel cage inspection type submersible type submersible electric motor to run on 3 phase/1 phase line voltage rangingfrom 320 volt to 450 volt conforming to IS :8034/89			-	
a	One no. 3 phase 2 H.P 3 stage head range 30 to 54 mtr. Discharge 155 to 200 LMP with outlate dia 32mm.	Set	1	23,423.00	23,423.00
b	2.5 Sq mm cable.	Mtr	70	181.72	12,720.40
c	40mm dia steel short piece.	Each	2	238.36	476.72

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
d	Steel rope wit cover.	Mtr	70	41.77	2,924.04
e	Well Cap.	Each	1	238.36	238.36
f	50mm size CI bracket.	Each	1	143.02	143.02
g	20mm dia rigid HDPE pipes.	Mtr	70	117.76	8,243.48
h	Boring up to 30 mtr.	Mtr	30	1,050.55	31,516.62
i	Boring work Above 30 mtr.	Mtr	50	1,050.55	52,527.70
j	8" ASTM pipe SCH-80	Mtr	51.46	2,702.74	1,39,086.96
k	Delivery	Set	1	2,360.00	2,360.00
l	Labour charges for lowering of summerssible pumpset with pipes and cables etc with testing and commissioning at site.	Mtr	70	147.50	10,325.00

	Total Rs.				20,23,595.76

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT TENDAPADAR GOVERNMENT UGHS, TENDAPADAR,PATNAGARH, BOLANGIR, ODISHA.					
INTERNAL ELECTRICAL WORK FOR SCHOOL BUILDING					
Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	INTERNAL WIRING				
1	Recessed wiring to light point / first light of group control/ call bell point/ exhaust fan point /wall fan point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metallic PVC conduit with 6 Amp, 250 V clip in type switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge.				
	Group C	Nos.	150	1,497.42	2,24,613.00
2	Recessed wiring to secondary light point looped from primary light point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including 3 plate ISI marked Ceiling rose with all accessories & connection as per direction of Engineer-in-charge.Average Length 2 mtr.	Nos.	55	564.04	31,022.20
				-	
3	Recessed wiring to ceiling fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch,Stepped type Moudular Regulator, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. Group c	Nos.	65	1,964.70	1,27,705.50
				-	
4	Recessed wiring to Twin control light point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metalic PVC conduit with 6Amp, 250 V clip in type 2way switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer-in-charge.Group C	Nos.	10	2,017.80	20,178.00
				-	
5	Recessed wiring for 5 / 6 amp socket outlet with 6Amp, 250 V clip in type modular switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection on same switch board as per direction of Engineer-in-charge.	Nos.	53	682.04	36,148.12
				-	
6	Recessed wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metalic PVC conduit with 6Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection on separate board as per direction of Engineer-in-charge.Group C	Nos.	5	1,674.42	8,372.10
				-	
7	Recessed wiring for 2 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of Engineer-in-charge.	Nos.	35	1,251.98	43,819.30
				-	
8	Recessed wiring for 6 pin 16 amp socket outlet with 16Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection as per direction of Engineer-in-charge.	Nos.	20	1,083.24	21,664.80
				-	
9	Recessed wiring for A.C/ Power socket outlet with industrial type socket outlet, plug top and metal chained cover in sheet steel enclosure ,20A/32A SP MCB including all accesories and connection as per direction of Engineer-in-charge.	Nos.	5	1,293.28	6,466.40
10	Recessed wiring to exhaust fan/Wall Fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge.Group C	Nos.	22	1,497.42	32,943.24
11	Call bell point	Nos.	3	1,689.76	5,069.28

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
12	Recessed wiring for 3 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accessories and connection on separate board as per direction of Engineer-in-charge.	Nos.	1	1,405.38	1,405.38
				-	-----
	SUB TOTAL			-	5,59,407.32
	SUBMAIN			-	
13	Recessed wiring to submain in 4 x 10 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	75	579.38	43,453.50
				-	
14	Recessed wiring to submain in 4 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	395.30	59,295.00
				-	
15	Recessed wiring to submain in 2 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 25 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	20	280.84	5,616.80
				-	
16	Recessed wiring to submain in 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	750	240.72	1,80,540.00
				-	
17	Recessed wiring to submain in 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	1850	219.48	4,06,038.00
				-	
18	Recessed wiring to submain in 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	202.96	30,444.00
				-	-----
	SUB TOTAL			-	7,25,387.30
				-	

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
19	DB			-	
	Supply and fixing of following way three pole and neutral, sheet steel, MCB distribution, 415 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic cover for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required with necessary MCB , RCCB / ISOLATORS as required. Note for MCB- There should be colour indication for tripping On ,Off & Trip/There should be mid trip position for toggles for electrical fault conditions.			-	
a)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For PDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-63A FP MCB (10KA) Outgoings-10/20A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
b)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For LDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
c)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For UPS DB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
	SUB TOTAL			-	1,50,198.66
	CABLE			-	
20	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 3.5core 150 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	200	2,289.20	4,57,840.00
21	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 3.5core 95 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	50	1,616.60	80,830.00
22	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 4 core 16 sq.mm Aluminium on surface as required.	Rmt	20	634.84	12,696.80
	SUB TOTAL			-	5,51,366.80
	END TERMINATION			-	
	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum cable of 1.1 KV as required.			-	
23	3.5C x 150 sq.mm	set	2	1,239.00	2,478.00
24	3.5C x 95 sq.mm	set	2	1,121.00	2,242.00
25	4C x 16 sq.mm	set	2	649.00	1,298.00
	SUB TOTAL			-	6,018.00
	PANEL			-	
	Supply, installation, testing & commissioning of floor mounting front operated front access extensible type cubicle panel totally enclosed, dust and vermin proof with IP-42 /55 protection with hinged and lockable doors. CRCA sheets including interconnections, tinned copper crimping lugs, bonding to earth and painting suitable for use at 415 V, 3phase 4 wire 50 Hz system, and to withstand a fault level of 35 KA symmetrical for 1 sec at 415 V complete as per specifications, as required and as below : All switchboards shall have provision for entry of cables from the bottom as required. All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The bus bars shall be insulated with heat shrinkable sleeves. SMC/DMC shrouds and busbar supports shall be used with Indication lamp, C.T , Digital Voltmeter, Digital Ammeter and control fuse etc. complete.			-	
26	MAIN PANEL with 150A 4P MCCB 36KA -1 No as incomer, 63A 4P MCB 10KA 4Nos, 100A 4P Change over Switch 1Nos, 40A 4P MCB 10KA-9Nos, 32A DP MCB 10KA-3Nos with E.C Busbars with 4nos 65KA VSD along with 4nos 32A SP MCB.	set	1	1,91,504.56	1,91,504.56

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	SUB TOTAL			-	1,91,504.56
				-	
	EARTHING			-	
27	Earthing with copper earth plate 600 mm x 600mm x 3.15 mm thick ISI marked including accessories and providing masonry with cover plate having loccking arrangement and watering pipe etc with charcoal and salt as required.	Set	4	16,233.26	64,933.04
28	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	Rmt	15	860.22	12,903.30
29	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked on surface or in recess for connection etc as required.	Rmt	50	923.94	46,197.00
30	Providing and fixing 8 SWG CU wire on surface or in recess for loop earthing as required.	Rmt	50	105.02	5,251.00
	SUB TOTAL			-	1,29,284.34
				-	
	FIXTURE			-	
	Supply, installation, testing and Commissioning of pre-wired fluorescent fitting / compact fluorescent fitting /LED fitting of all sizes complete with all accessories and lamp etc. directly on ceiling /wall or recessed in false ceiling , including connection with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor and earthing as required.			-	
31	Ceiling mounted indoor type batten type LED Luminaire with LED Lamp	Nos	130	554.60	72,098.00
32	Ceiling/ Wall mounted type BULK HEAD Luminaire	Nos	10	1,267.32	12,673.20
33	Supply, Installation, testing and commissioning of 10W Mirror Light	Nos	15	364.62	5,469.30
34	Supply, Installation, Testing and Commissioning of ceiling fan 1200mm sweep, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FR PVC insulated single core multiatrand copper conductors as required.BLDC FAN.	Nos	65	4,659.82	3,02,888.30
35	Supply, Installation, testing and commissioning of exhaust fan of 250 mm PLASTIC Exhaust Fan (Vntilation Fan) complete, connection, etc as required.250MM CRISP AIR EXH FAN.	Nos	17	2,109.84	35,867.28
36	Supply & fixing of 18W LED Down Light (S/R) with all accessories.	Nos	50	1,250.80	62,540.00
37	Supply & fixing of LED 36w 2'x2' Surface/Recessed Mounted Light as required .	Nos	15	2,269.14	34,037.10
38	Supply & fixing of 6W LED Down Light (S/R) with all accessories.	Nos	10	636.02	6,360.20
39	Supply, Installation, testing and commissioning of wall fan of 400 mm sweep as required.Model-400mm STRIKER HI SPEED.	Nos	5	3,645.02	18,225.10
	SUB TOTAL			-	5,50,158.48
	PERFORATED CABLE TRAY			-	
	Supply and installation of Pregalvanised Perforated type cable trays without cover. The rate shall include bends, Tees, all supporting brackets, anchor fasteners, screws, bolts, nuts etc., including painting of cable trays. Thickness of sheet steel shall be 2 mm. Support sizes			-	
40	Size of Cable Tray :300 mm x 50 mm	Rmtr	10	916.86	9,168.60
41	Size of Cable Tray :150 mm x 50 mm	Rmtr	40	712.72	28,508.80
	SUB TOTAL			-	37,677.40

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
				-	
	TV /TEL & DATA			-	
42	Supplying and fixing of clip in type modular Telephone socket ISI marked mounted on G.I modular box with face plate & cover of suitable size ,including all accesories and connection as per direction of Engineer in Charge.	Nos	10	450.76	4,507.60
43	Supplying and fixing of clip in type modular T.V. antenna socket ISI marked on mounted on G.I modular box with face plate & cover of suitable size , including all accesories and connection as per direction of Engineer in Charge.	Nos	10	462.56	4,625.60
44	Supplying and drawing 4 pair, 0.5 sq.mm FR PVC insulated coper conductor, unarmoured telephone cable in existing surface / recessed PVC conduit as required.	Rmt	250	53.10	13,275.00
45	Recessed wiring to television point with cable RG-6 grade, 0.7 mm solid copper conductor PE insulated shielded with fine tined copper braid and protected with FR PVC sheath in in existing surface / recessed PVC conduit as required as per direction of Engineer in Charge.	Rmt	150	47.20	7,080.00
46	Supplying and fixing of following sizes PVC conduit along with accessories in recessed wiring including cutting the wall and making good the same in case of recessed conduit as required.			-	
	20mm	Rmt	250	121.54	30,385.00
47	Supplying and fixing of 16 / 18 SWG metal box of 200 mm x 150 mm x 60 mm deep on surface / recess with suitable size of phenolic laminated sheet cover in front including cutting the wall and making good the same in case of recessed conduit as required. (Tel junction Box)	Nos	1	212.40	212.40
48	Supplying & Commissioning of Telephone Hand Set.	Nos	10	866.12	8,661.20
49	Supplying & installation of 100 pair KRONE make moudles with locking & key arrangements fabricated with MS sheet & powder coated to be fixed on concealed manner incl. good the damages.	set	1	2,950.00	2,950.00
50	SITC of 4 pair Cat6 23 awg U/UTP LSZH Cable in the existing surface/ recessed steel/ PVC conduit as required: The 4 pair Unshielded Twisted Pair cable shall be UL Listed,exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E , 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must,Insertion Loss of 32.8 db/100m at 250 MHz ,Cable should support operating temperature from -20° to +70°C Cable support Conductor Resistance ≤ 9.38 Ω/100m Max., Cable support Delay Skew: < 45 ns/100m, Operating Voltage: 72V , Impedance: 100 ± 15 Ω @100 MHz. and Propagation Delay @250 MHz : 536 ns/100m ETL Verified 4 connector channel performance up to	Mtr	750	97.94	73,455.00
51	Supply & fixing of RJ-45Jack of Category 6 with Dual-port British-style Face plate 86x86 mm with Curveture and wall mount box.	Nos	20	1,117.46	22,349.20
	SUB TOTAL				1,67,501.00

	TOTAL INTERNAL ELECTRICAL WORK=				30,68,503.86

**CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT SILUAN UGHS, SILUAN, TITLAGARH,
BOLANGIR, ODISHA.**

BILL OF QUANTITIES (CIVIL WORK)								
Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
1	Item No. 16 & Page No. 19	Excavation, loading, unloading and carriage by mechanical means of all kinds of soil, including stoney earth, gravel and moorum etc interspread with boulders upto 1/2 cum size with all lifts and delifts including trimming of slopes and bed to design section and depositing the the excavated materials away from work site as per the specification and as directed by the Engineer- in-charge within an initial lead of 1km from the place of excavation complete.						
		Ground Floor	Cum	2645.49	117.41		3,10,606.98	
		C.WALL	Cum	136.79	117.41		16,060.51	
2	Ref.AOR(Odisha)/I.Earth Work-14,Page No-8	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	Cum	881.83	204.26		1,80,120.83	
3	Item No. 16 & Page No. 19	Filling the Foundation, Sides of Foundation, etc. in mechanical means with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of machinery, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-			
		Ground Floor	Cum	1763.66	117.41		2,07,071.32	
		C.WALL	Cum	91.19	117.41		10,706.62	
4		Supplying, diluting and preparing chemical emulsion like Imidacloprid 30.5 % SC or other chemicals approved by Central Insecticides Board or as directed by the manufacturer and spraying the mixture uniformly by sprayer as Pre/Post-Constructional Anti-termite Treatment confirming to IS 6313 (Part-II) including the cost of all materials, cost of all labour, conveyance, loading, unloading, T&P, etc. all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	sqm	1818.06	-	123.31		2,24,184.98
5	Ref.AOR(Odisha)/I.Earth Work-15,Page No-8	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth, well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the dirrection of Engineer-in-charge.			-	-	-	
		Ground Floor	Cum	177.27	638.85	-	1,13,249.29	
		C.WALL	Cum	6.62	638.85	-	4,229.20	
6	Ref.AOR(Odisha)/III-Concrete -3,Page No-43	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.			-	-	-	
		Ground Floor	Cum	428.91	6,988.90	-	29,97,610.81	
		C.WALL	Cum	11.63	6,988.90	-	81,280.95	
		RCC WORK			-	-	-	

7	Ref:AOR(O disha)/IV- RCC-10- iv,Page No- 54	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance,loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement.			-	-	-	
		(A)R.C.C. foundation and footing bases of columns mass concrete pre-cast slab etc.			-	-	-	
		Ground Floor	Cum	343.45	7,941.40	-	27,27,473.83	
		C.WALL	Cum	9.00	7,941.40	-	71,472.60	
		R.C.C. Plinth Beam			-	-	-	
		Ground Floor	Cum	135.85	8,973.19	-	12,19,008.13	
		C.WALL	Cum	5.63	8,973.19	-	50,519.07	
		(B)R.C.C. Column &cRoof Beam			-	-	-	
		Ground Floor	Cum	269.33	19,013.10	-	51,20,799.30	
		C.WALL	Cum	3.09	19,013.10	-	58,750.49	
		Terrace	Cum	34.40	21,463.14	-	7,38,331.95	
		(C) R.C.C. Slab			-	-	-	
		Ground Floor	Cum	242.35	14,760.38	-	35,77,179.06	
		C.WALL	Cum	0.42	14,760.38	-	6,199.36	
		Terrace	Cum	13.65	16,359.99	-	2,23,313.89	
		(D)R.C.C. Staircase			-	-	-	
		Ground Floor	Cum	10.09	18,850.50	-	1,90,201.55	
		(E)R.C.C. lintel			-	-	-	
		Ground Floor	Cum	33.16	17,043.57	-	5,65,164.65	
		Terrace	Cum	0.97	19,099.83	-	18,526.84	
		(F)R.C.C. Fins			-	-	-	
		Ground Floor	Cum	17.02	13,915.74	-	2,36,845.89	
8	Ref:AOR(O disha)/IV- RCC- 9,Page No- 52	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).			-	-	-	
		Ground Floor	Qntl	977.97	11,250.24	-	1,10,02,395.26	
		C.WALL	Qntl	22.54	11,250.24	-	2,53,580.36	
		Terrace	Qntl	76.47	11,290.44	-	8,63,379.99	
		BRICK WORK			-	-	-	
9	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying Brick Masonry work in Foundation & Plinth using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge.			-	-	-	
		Ground Floor	Cum	194.50	6,907.96	-	13,43,597.44	
		C.WALL	Cum	17.34	6,907.96	-	1,19,783.96	

10	Ref:AOR(O disha)/VI- Brick Work- 02,Page No- 71	Providing and laying Brick masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:4) for Half Brick Masonry Wall with provisions for 2 nos 6mm dia MS bar at each 4th layer after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge. (Excluding Cost Of Steel Reinforcement).			-	-	-	
		Ground Floor	Cum	34.41	7,202.37	-	2,47,833.41	
11	Ref:AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying of Full Brick Masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % confirming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties.			-	-	-	
		Ground Floor	Cum	453.25	6,947.37	-	31,48,894.55	
		C.WALL	Cum	25.88	6,947.37	-	1,79,797.88	
		Terrace	Cum	158.97	7,402.73	-	11,76,811.99	
12	Ref:AOR(O disha)/X- Plastering- 27,Page No- 109	Providing 6 mm thick Cement Plaster in Cement Mortar of (1:4) to Ceilings of Roof Slabs, Stairs, Landings, Chajja, Shelves, Columns, Beams and Lofts etc. including roughening, scraping and cleaning and finishing the plastered surface smooth using wooden floats only to proper plumbs and level, making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading and royalties, all labour, scaffolding, watering and curing , sundries, T&P etc. complete as per direction of the Engineer-in-charge			-	-	-	
		Ground Floor	Sqm	83.59	252.87	-	21,137.74	
		C.WALL	Sqm	64.71	252.87	-	16,363.48	
13	Ref:AOR(O disha)/X- Plastering- 16,Page No- 106	Providing 12mm thick cement plaster in cement mortar (1:4) to the surface of half brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.			-	-	-	
		Ground Floor	Sqm	2147.18	238.12	-	5,11,295.09	
		C.WALL	Sqm	3209.45	243.67	-	7,82,046.68	
14	Ref:AOR(O disha)/X- Plastering- 14,Page No- 105	Providing 16mm thick cement plaster in cement mortar (1:6) to the surfaces of brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.(inner side)			-	-	-	
		Ground Floor	Sqm	3559.07	324.26	-	11,54,078.27	
		C.WALL	Sqm	202.50	324.26	-	65,663.46	
		C.WALL	Sqm	170.16	332.76	-	56,622.44	

15	CCE LEVEL COMMITTEE MEETING HELD ON 12.02.2024 AT 11 AM	Waterproofing application:- Providing and application of two component polymer odified flexible cementitious waterproofing coating at a thickness of 1.5-2.5 mm The membrane hould have Elongation equal or more than: 30% etc.as per direction of E.I.C (For longer span, in errace panel of 4m*4m should be done by roovecutting, and filling with PU Sealant) Crack Bridging ability: Up to 1 mm Adhesive strength: 1.0 N/mm² @ 28d Tensile elongation: 60% @ 20°C Shore A Hardness >85 (between 3-7 days)			-	-	-		
		Terrace	Sqm	1874.36	578.20	-	-	10,83,754.95	
		FINISHING WORK			-	-	-		
16	Ref: OPWD/Revised Analysis of Rate/Ch-XIX-SI. No.2	Supplying and finishing the plastered surface of wall using 2 Coats of Cement Based Wall Putty (Water Based) of approved make and quality and finished smooth and even surface to receive the paint including the cost of all materials, cost of all labour, conveyance, taxes, loading, unloading, scaffolding, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-	-	-		
		Interior Wall Putty			-	-	-		
		Ground Floor	Sqm	5096.62	76.11	-	-	3,87,903.75	
		C.WALL	Sqm	170.16	78.35	-	-	13,332.38	
17	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Providing and applying 2 coats plastic emulsion paint of approved quality and shade over a coat of wall primer of approved quality to surfaces (interior) including throughly brushing the surface free from foreign materials, sand papering smooth the intermediate coats, providing necessary putty & primer including of all materials, labour, conveyance,royalties, scaffolding, watering, curing, sundries, tools and plants etc as per the direction of Engineer-in-charge. (colour & shade to be approved before procurment & use)			-	-	-		
		Ground Floor	Sqm	5168.33	229.04	-	-	11,83,743.97	
		First Floor	Sqm	267.94	234.11	-	-	62,727.97	
18	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Providing and Painting with Two Coats Weather Coat Paint (exterior grade) of approved make & shade manufactured by reputed manufacturer make an even finished surface over a coat of water bound cement primer and wall putty in all heights with all scaffolding and staging charges including cost, conveyance, cost of all labours, T & P, sundries etc. as required for the work complete.			-	-	-		
		Ground Floor	Sqm	2446.95	219.72	-	-	5,37,634.07	
		TERRACE	Sqm	267.21	219.72	-	-	58,710.31	
		First Floor	Sqm	1350.36	228.09	-	-	3,08,009.01	
19	Ref:AOR(Odisha)/IX-Painting-1,20 & Page No-93,99	Painting two coats of synthetic enamel paint over Iron Works as per approved shade of approved quality over a coat of primer, sand papering, polishing the surface including cost, conveyance,labour, T&P, scaffolding etc. as required for the work complete as per direction of Engineer-in-charge. (The paints and primer are to be approved before procurement and use)			-	-	-		
		Ground Floor	Sqm	201.09	317.42	-	-	63,829.99	
		C.WALL	Sqm	44.41	317.42	-	-	14,096.62	
		First Floor	Sqm	25.62	323.20	-	-	8,280.44	
20	Ref: Revised Analysis of Rate (Ch-XIX/SI. No./1 -b)	Providing and laying of 600 mm x 600 mm Vitrified Floor Tiles Matt Finish Anti Skid Plain Series confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-		
		Ground Floor	Sqm	775.10	1,344.26	-	-	10,41,932.83	

21	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying of Vitrified Tiles Matt Finish Plain Series in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 600mm x 600mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	73.80	1,506.51	-	1,11,180.14	
22	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mmx300mm antiskid ceramic floor Tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	82.32	1,289.74	-	1,06,171.40	
23	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Ceramic wall tile With Epoxy Grout For Toilet Providing and laying of Glazed Ceramic Wall Tiles in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 300mm x 450mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	318.76	1,444.08	-	4,60,316.22	
24	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing & laying Heavy Duty Vetrified Floor Tile Matt Finish Rustic Series having thickness 10mm confirming to IS 4457 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces with oxlaic acid, machine grinding, mirror polishing including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	662.15	1,451.87	-	9,61,357.04	

25	Ref: OPWD/Analysis of Rate/Page No.90	Providing & laying Heavy Duty Vetrified Tile Matt Finish Rustic Series having thickness 10mm in dado/skirting confirming to IS : 15622 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 12mm thick cement mortar (1:3) (1 cement: 3 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	75.83	1,614.24	-	1,22,407.82	
26	Ref: Revised Analysis of Rate (Ch- XIX/SI. No./1 -b)	Providing and laying 300mm x 300mm Chequered Tiles. tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	136.51	801.10	-	1,09,358.43	
27		Providing & laying granite stone flooring in Floors and landing using 19-20 mm thick granite stone slab of approved quality, colour and size above 0.4 Sqm as per IS 14223 laid over an under layer of 20 mm thick cement mortar (1:4) (1 cement: 4 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of granite tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	9.45	3,706.73	-	35,028.64	
		BUILT IN JOINERIES			-	-	-	

28	Ref: DAR-SH-26.86.6	Providing and fixing 65mm X 125mm factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceasetory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.			-	-	-	
		Ground Floor	Rmt	99.75	1,398.77	-	1,39,527.51	
29	Ref: DAR-SH-26.88.1 2023	Providing and fixing of 30 mm thick factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with SS 304 Grade Matt Finished 3 Nos butt hinges of Size 100mm X 60mm X 2.5mm, 1 No 250mm X 16mm Aldrop, 1 No 150mm x 16mm tower bolt, 2 No 150mm length Door handle with necessary full body threaded star headed counter sunk S.S screws, floor/hanging door stopper & hydraulic door closer as required and mentioned in architectural drawing all as per direction of Engineer-In- Charge.			-	-	-	
		Ground Floor	Sqm	139.28	6,179.07	-	8,60,620.87	
30		Supplying and fixing of Powder coated 50-60 microns approved colour of aluminium 40mm Casement series Door Unit with suitable aluminium extrude profiles. the system is designed to accommodate 12mm clear toughened glass. the rate quoted inclusive of hardwares like antilift, roller, Espag lock cum handle, epdm gaskets, T mullion, Fly Mullion, bottom adopter, mid transom, glazing clip for 12 mm glass felt along with all accessories etc complete. The gap between the wall and window will be filled with silicon weather sealant in the outer side. including the cost of all materials ,hardware fittings, cost of all labour, conveyance, loading, un loading, T&P, etc, complete as per the direction of Engineer-in Charge.(As per Proceeding of C.C.E. Level committee meeting held on dt. 12.02.2024 at 11.30 A.M.)			-	-	-	
		Ground Floor	Sqm	4.32	-	14,664.80	63,351.95	
31	Item No. 16 & Page No. 19	Supplying, fitting and fixing of M.S. grill ,Grated doors etc made out of M.S. flats/square bars as per drawing and design fixed in position to proper plumb with cost, conveyance, Materials, labour, T&P etc. required for the complete in all respect as per the direction of Engineer-in-Charge.			-	-	-	
		Ground Floor	Kg	8202.65	117.19	-	9,61,234.10	
		C.WALL	Kg	3683.16	117.19	-	4,31,614.05	
		Terrace	Kg	946.80	117.19	-	1,10,951.52	

32		Supplying, fabricating & fixing of polished stainless steel (304 grade) items made out of pipes, angles, flats, plates, hollow tube, square pipe bracing as per approved design and specification, buffing, polishing etc. with cost, conveyance, labour in railing, parapet, staircase, space frame etc required for the work complete in all respect as per direction of Engineer-in-charge.			-	-	-	
		Ground Floor	Kg	468.01	405.68	-	1,89,864.17	
33	SOR Sl. No 12 Page- 235	Supplying , fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame, shutters and all fitting and fixtures.			-	-	-	
		Ground Floor	Sqm	147.15	5,853.94	-	8,61,407.95	
34		Providing and fixing barbed wire fencing on R.C.C. (1:2:4) fencing posts with chips 1.68M long 13cm x 13cm at bottom and 8cm x 8cm at top and 30cm 30cm x 8 cm base finished smooth by means of staples and staining hooks by means of tying with G.I wire and including cost of barbed wire, staples, hooks, tying wires and labour, post etc complete in all respect as per the direction of the Engineer-in-charge.			-	-		
		Length of Barbed Fencing	Rmt	300.00	1,030.17	-	3,09,051.86	
35	Market Rate	Supplying, Providing and installing of modified flexible polyolefin (FPO) membrane system (Water Proofing tape) which shall be designed to be bonded over expansion and movement joints upto 200 mm in structures to prevent the passage of water having elongation at break more than 600%, maximum permissible permanent elongation shall not less than 20% and having resistance to aggressive conditions like ground water, soil, cement water, bitumen and bitumen emulsion coatings .It is bonded in position using two part epoxy adhesive and consumption of adhesive shall be as per manufacturers direction after proper fixing of the necessary back up materials as specified and directed by the EIC.The item rate shall be including all materials, all kinds of labours, T & P, machineries, lead and lift, mathadi Charges, curing, wastages,consumables, cleaning, shifting of debris outside the premises, surface preparation etc complete as per design, drawing & direction of EIC.			-	-		
		Ground Floor	Rmt	154.00	-	3,157.80		4,86,300.89
36	CPWD	Providing and fixing of expansion joint system (150 mm- 200 mm wide) related with wall/soffit/ceiling joint(internal/external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members,aligning / centering arrangement and support plates as per ASTM B221-selfCharge.02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application,as well as horizontal covers for Soffits/ Ceilings both new and existing construction in Buildings/complexes/Structures 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 conform to ASTM 6063). The design			-	-		
		Ground Floor	Rmt	10.50	-	6,260.67		65,737.00

37	(DAR 2006- Page No- 249 item- 14)	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon			-	-		
		Ground Floor	Sqm	21.60	5,853.94	-	1,26,445.20	
		TERRACE	Sqm	16.80	5,853.94	-	98,346.27	
38	(DAR 2006- Page No- 247 item- 13)	Providing and fixing of partly fixed partly top hung and partly louvered windows of approved make to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyester paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and with all vertical and horizontal mullions are of 46x70 mm and fixed beadings are of 18x25 mm. Section for internal top and bottom frames in the louvered areas should be 18 x 40 mm. Top hung shutter should be of 46 x 46 mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle being made of high grade aluminium powder coated and with nylon receiver and gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The mullion caps and louvered-clips should be of glass filled nylon. The sections are to be cut to length,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by			-	-		
		Providing and fixing of 12mm thick Clear toughened Glass Frameless Door With Dormo Premium Fittings Dormo Premium (0444400)			-	-	-	
		Ground Floor	Sqm	9.72	5,885.10	-		
		Total					5,04,26,844.61	8,39,574.83

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT SILUAN UGHS, SILUAN, TITLAGARH, BOLANGIR, ODISHA.

A.	INTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
1	Providing and fixing Chlorinated Polyvinyl Chloride [CPVC] pipes SDR-11 conforming to IS:15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fitting including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and fittings with one stp CPVC solvent cement and testing of joints complete as per specification and direction of Engineer-in-charge.				
	20 mm PVC sch-80 pipes	Mtr	70.0	362.97	25,407.76
	25 mm PVC sch-80 pipes	Mtr	70.0	503.62	35,253.68
	32 mm PVC sch-80 pipes	Mtr	100.0	692.90	69,289.60
	50 mm PVC sch-80 pipes	Mtr	95.0	1417.77	1,34,688.15
				0.00	
2	Supplying all materials,labour and T&P for cutting holes through existing brick work including making good to the same in cement mortar(1:4) for taking G.I. pipes and fittings /P.V.C. pipes and fittings all complete as per specification.			0.00	
	250mm Thick	Each	38.0	80.36	3,053.60
				0.00	
3	Supplying all materials,labour and T&P for cutting holes in R.C.C. floors and roofs up to 19 cm. thick including for passing GI / PVC pipes and fittings etc. and repairing the holes after insertion of pipes etc. with cement concrete 1:2:4 including finishing complete to make it leak proof leak to the damages all complete as per specification and direction of the Engineer-in-charge.			0.00	
		Each	7.0	258.18	1,807.29
				0.00	
4	Supplying all materials,labour and T&P for cutting groves in pucca floor and walls for taking G.I. pipes and fittings /P.V.C. pipes and fittings and making good to the damages all complete as per specification.			0.00	
		Mtr	70.0	324.26	22,698.48
				0.00	
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge.			0.00	
				0.00	
a)	Supplying all labour and T&P for fixing 2 in 1 bib cock of the following size as per specification all complete.			0.00	
		Each	16.0	1543.79	24,700.70
				0.00	
b)	Supplying all labour and T&P for fixing long body bib cock of the following size as per specification all complete.15mm Dia			0.00	
		Each	4.0	1272.28	5,089.10
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
c)	Supplying all labour and T&P for fixing CP Angular stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete. 15mm Dia			0	
		Each	28.0	1106.37	30,978.30
				0.00	
d)	Supplying fitting fixing of C.P Pillar Taps highpressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification. 15mm Dia			0	
		Each	17.0	1740.50	29,588.50
				0.00	
e)	Supplying all labour and T&P for fixing CP short body Bib cock [taps] polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete .			0	
		Each	3.0	1080.29	3,240.87
				0.00	
f)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete.) 25mm Dia	Each	6.0	810.78	4,864.67
				0.00	
g)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 32mm Dia	Each	4.0	1677.49	6,709.95
				0.00	
h)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 50mm Dia	Each	2.0	3687.62	7,375.24
				0.00	
i)	Providing and fixing C.P. Brass Extension Nipple 1 inch with extension piece as per direction of Engineer-in-charge.	Each	15.0	701.38	10,520.70
				0.00	
j)	Supplying fitting fixing of CP waste of the following noninal diameter for wash hand basin and sink as per specification.	Each	14.0	448.52	6,279.25
				0.00	
k)	Supplying all materials,labour and T&P for fixing CP Gratings of the following nominal diameter of outlet, of self cleaning design with sand cast iron screwed down or hinged grating with or without vent arm including cutting and making good to the walls and floors etc. all complete as per specification.			0	
		Each	38.0	1404.67	53,377.54
				0.00	
l)	Providing and fixing of approved make and model for Chrome plated Grab Bar,for Physically challenged toilet, The work shall include the cutting of walls or floors & making good, complete as per direction of Engineer in Charge.			0	
		Each	1.0	5177.18	5,177.18
				0.00	

SI. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
6	Supplying fitting fixing of C.P health faucet high pressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification.			0.00	
	15mm dia CP Health Faucet of 1mtr long PVC tube			0	
		Each	8.0	955.56	7,644.51
				0.00	
7	Providing and fixing of Rational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701-1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts , fixing ball valve etc. including hoisting up to a height of 5.00metres above ground level and placing the tank to the required position etc. all complete as per specification and direction of the engineer-in-charge.			0.00	
i)	Overhead water storage tanks	Lit.	8000.0	16.04	1,28,329.63
	Extra over item no.3.1.8 for hoisting Rational moulded polyethylene cylindrical vertical water storage tanks of following sizes for every additional height of 5.00m. Or part thereof complete as per specification and direction of the engineer-in-charge.			0.00	
	Water storage tanks	Each	4.0	1472.64	5,890.56
8	Supplying all materials, labour, T&P and fitting and fixing U-PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.			0.00	
	110mm diameter PVC SWR pipes	Mtr	105.0	461.73	48,482.07
	75mm diameter PVC SWR pipes	Mtr	90.0	286.62	25,795.98
	110mm PVC door Tee	Each	12.0	458.55	5,502.58
	75mm PVC door Tee	Each	5.0	345.74	1,728.70
	110mm PVC offset	Each	10.0	162.84	1,628.40
	110mm PVC door bend	Each	10.0	255.35	2,553.52
	75mm PVC door bend	Each	10.0	134.64	1,346.38
	110mm PVC plain shoe bend	Each	10.0	201.54	2,015.44
	75mm PVC plain shoe bend	Each	10.0	98.18	981.76
	110mm PVC vent cowl	Each	10.0	102.19	1,021.88
	75mm PVC vent cowl	Each	0.0	86.14	-
	110mm S-trap	Each	12.0	743.05	8,916.55
	110mm P-trap	Each	1.0	410.88	410.88
	110mm SWR Pipe Clip	Each	105.0	35.87	3,766.56
	75mm SWR Pipe Clip	Each	90.0	27.61	2,485.08
	110/75 mm Dia Reducer/Connector	Each	5.0	305.03	1,525.15
	90mm Nahani Trap	Each	33.0	171.81	5,669.66
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
9	Supplying all materials,labour and T&P for fixing of PVC 10 ltr capacity low level flushing cistern with manually controlled device[handle cover] confirming to IS 7231 with fittings and fixtures etc. all complete as per specification.			0.00	
	10 Liters capacity PVC cistern			0	
		Each	16.0	2306.07	36,897.18
				0.00	
10	Supplying all materials,labour and T&P for fixing water closet ,squatting pan(Indian type.W.C.pan or Orissa pan) confirming to IS 2556 : Part-3-2004 duly embedded in cement concrete (1:4:8) using 40mm.nominal size h.b.g. chips [including foot rest for I.W.C. and trap] all complete as per specificationand directon of theEngineer - in - charge.			0.00	
				0	
		Each	8.0	4528.49	36,227.89
				0.00	
11	Supplying all materials,labour and T&P for fixing in cement mortar (1:3) a pair of white vitereous china (250x130x30mm.) foot rest for squatting water closet. etc. all complete as per specificationand direction of the Engineer-in-charge.			0.00	
				0	
		Pair	8.0	661.86	5,294.90
				0.00	
12	Supplying all materials,labour and T&P for Supplying all materials,labour and T&P for fixing wash down water closet (European type W.C.) with integral "S" or "P" trap tothe floor with wooden plug and chromium plated screw including jointing the trap with soil pipe in cement mortar (1:1) etc. all complete as per specification.			0.00	
		Each	7.0	3747.21	26,230.46
				0.00	
13	Supplying all materials,labour and T&P for fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers all complete as per specification.			0.00	
		Each	7.0	1089.61	7,627.28
				0.00	
14	Supplying all materials,labour and T&P for fixing wash hand basin (SS Made) with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	12.0	5427.17	65,126.09
				0.00	
15	Supplying all materials,labour and T&P for fixing corner wash hand basin with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			0.00	
				0	
		Each	4.0	3146.59	12,586.35
				0.00	

SI. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
16	Supplying all materials,labour and T&P for fixing Pedestal for wash hand basin complete recessed at the back for the receiptionof pipe and fittings etc. all complete as per specification including cost of pedestal for wash basin			0.00	
				0	
		Each	4.0	3093.84	12,375.37
				0.00	

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
17	Supplying all materials,labour and T&P for fixing of 600x450 bevelled edge mirror of superior glass mounted on 6mm thick ac sheet or ply wood sheet and fixed to wooden plugs with chromium plated brass screws and washers etc. All complete as per specification .			0	
	600mmx450mm size B.E.mirror			0	
		Each	12.0	2557.89	30,694.63
				0.00	
18	Supplying all materials,labour and T&P for fixing standard size glass self with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws and washers etc. all complete as per specification.			0.00	
		Each	13.0	946.01	12,298.08
				0.00	
19	Supplying all materials,labour and T&P for fixing standard size C. P. towel rail fixed with chromium plated brass brackets fixed to wooden plugs with cromium plated brass screws complete as per specification.			0.00	
				0	
		Each	8.0	1274.52	10,196.14
				0.00	
20	Supplying all materials,labour and T&P for fixing of cromium plated brass soap dish complete with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws as per specification.			0.00	
				0	
		Each	16.0	418.19	6,691.07
				0.00	
21	Supplying all materials,labour and T&P for fixing standard size C. P. towel ring fixed fixed to wooden plugs with cromium plated brass screws complete as per specification.	Nos	16.0	645.22	10,323.58
				0	
22	Supplying all materials,labour and T&P for fixing of liquid soap container - glass container or plastic container with chromium plated brass lid and brackets fixed to wooden plugs with chromium plated brass screws as per specification.	Nos	4.0	2086.83	8,347.32
				0.00	
23	Supplying all materials,labour and T&P for fixing stainless steel AISI 304 [18/8] Kitchen sink as per IS 13983 with cast iron bracet and stainless steel plug including painting of fittings and brackets ,cutting and making good to the walls etc. all as per specification including cost of sink with all accessories.			0	
		Nos	2.0	7267.86	14,535.71
				0.00	
24	Supplying all labour and T&P for fixing CP Concealed stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete.	Each	8.0	1326.32	10,610.56
				0.00	
25	Supplying all materials,labour and T&P for fixing Porcelain Urinal respectively with waste pipe by means of white lead mixed with chopped hemp etc. all complete as per specification.	Each	8.0	8961.16	71,689.25

Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
				0.00	
26	Fixing standard size Chromium Plated brass or glazed porcelain Toilet paper holder fixed to woden plugs with Chromium Plated brass screws complete as per specification and direction of the Engineer in charge.	Each	2.0	1404.55	2,809.11
				0.00	
27	Providing and fixing approved quality E.W.C Matrix Set with grab bar set for Handicap (Accessible) Toilet consisting of stainless steel grab bars and support fittings required for differently-abled users, conforming to universal accessibility standards. The set shall include wall-mounted horizontal and vertical support bars near WC and wash basin area, made of SS 304 grade stainless steel with satin/matt finish, complete with necessary brackets, anchor fasteners, screws, bends, end caps, and accessories. The arrangement shall provide safe support and ease of movement for wheelchair users and physically challenged persons. Installation shall be done in proper alignment, level, and position as per approved drawings and accessibility guidelines, complete in all respects as per the direction of the Engineer in charge.	Each	1.0	94164.00	94,164.00

	Total Rs.				12,10,520.83

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT SILUAN UGHS, SILUAN, TITLAGARH, BOLANGIR, ODISHA.					
B.	EXTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
1	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap, Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per aproved drawing, specification and direction of Engineer-in-charge.				
	250mmx250mm with RCC cover	Each	10.00	2055.91	20,559.14
				0.00	
2	Constructing inspection chamber with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			0.00	
	Inspection Chamber inside size 750mm x 750mm and 450mm	Each	8.00	15880.32	1,27,042.58
				0.00	
3	Supplying all materials,labour and T&P for laying in trenches unplasticized PVC pipes and specials of the following outside dia. for all classes including jointing with approved solvent cement by non-heat application method including testing as per specification and direction of Engineer-in-charge etc. all complete. [including earth work and cost of pipes.			0.00	
a)	110 mm dia U-PVC pipes Class-3	mtr	60.00	1171.27	70,276.08
b)	160 mm dia U-PVC pipes Class-3	mtr	30.00	2494.52	74,835.60
				0.00	
4	Constructing manholes with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.			0.00	
a)	Plain Manholes inside size 900mm x 800mm and 450mm deep	each	8.00	21207.20	1,69,657.57
				0.00	
5	Construction of 50 Users Septic Tank (2 No.s)			0.00	
a)-i	Earth work in excavation in foundation trenches, column foundation, pit, etc in all kind of soil including moorum stony earth and earth mixed with boulders except sheet rock and boulders not requiring blasting including dressing of sides and levelling the bed up to the required depth and depositing the excavated materials away from the work site with initial lead of 50 mtr and all lifts, including shoring, shuttering & dewatering (if required) with cost of labour, labour cess, hire & running charges of all machineries, sundries & T&P required for the work complete as directed by the Engineer in charge.	Cum	56.88	433.73	24,670.71
a)-ii	Above 1.5mt. Depth	Cum	47.57	465.06	22,122.05
				0.00	
b)	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.	Cum	70.71	241.02	17,043.15
				0.00	
c)	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth, well watered and compact, top surface dressed and levelled to proper level and gradient including cost of all materials, conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the dirrection of Engineer-in-charge.	Cum	2.96	753.85	2,229.87
				0.00	
d)	Providing and lying Plain Cement Concrete of proportion (1:4:8) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, taxes, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	2.96	7714.59	22,819.76

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
				0.00	
e)	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	3.92	8246.91	32,360.86
				0.00	
f)	Providing 12mm thick cement plaster in cement mortar (1:4) with neat cement punning including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, taxes, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.	Sqm	15.84	291.85	4,622.86
				0.00	
g)	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance, loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement.			0.00	
i.	Base	Cum	5.48	9370.85	51,355.08
ii.	Slab	Cum	4.64	17417.25	80,885.72
iii.	Wall	Cum	12.96	16420.57	2,12,810.63
h)	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).	Qtl.	42.00	13275.28	5,57,561.80
				0.00	
i)	Supplying all materials, labour, T&P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	4.00	188.92	755.67
				0.00	
j)	Supplying all materials, labour, T&P and laying in trenches (to level or slope) and jointing with provision of stiff mixture of cement mortar in proportion of 1:1 for salt glazed stoneware pipes, Grade—A of the following internal diameters including testing of pipes and joints complete. 110mm diameter UPC pipe	Mtr	12.00	1171.27	14,055.22
				0.00	
6	Constructing RCC soak way pit with R.C.C top slab in (1:2:4) mix, inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:4), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, complete as per specification.			0.00	
a)	RCC soak way pit of size 1.5m x 1.8m deep	each	8.00	11881.54	95,052.30
				0.00	
	Borewell			0.00	
7	Supplying all materials,labour T&P and providing fitting submersible pump with squarrel cage inspection type submerssible type submersible electric motor to run on 3 phase/1 phase line voltage rangingfrom 320 volt to 450 volt conforming to IS :8034/89			0.00	
a	One no. 3 phase 2 H.P 3 stage head range 30 to 54 mtr. Discharge 155 to 200 LMP with outlate dia 32mm.	Set	1	23423.00	23,423.00

Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
b	2.5 Sq mm cable.	Mtr	70	181.72	12,720.40
c	40mm dia steel short piece.	Each	2	238.36	476.72
d	Steel rope wit cover.	Mtr	70	41.77	2,924.04
e	Well Cap.	Each	1	238.36	238.36
f	50mm size CI bracket.	Each	1	143.02	143.02
g	20mm dia rigid HDPE pipes.	Mtr	70	117.76	8,243.48
h	Boring up to 30 mtr.	Mtr	30	1050.55	31,516.62
i	Boring work Above 30 mtr.	Mtr	50	1050.55	52,527.70
j	8" ASTM pipe SCH-80	Mtr	70	2702.74	1,89,192.00
k	Delivery	Set	1	2360.00	2,360.00
l	Labour charges for lowering of summerssible pumpset with pipes and cables etc with testing and commissioning at site.	Mtr	70	147.50	10,325.00

	Total Rs.				19,34,806.98

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT SILUAN UGHS, SILUAN, TITLAGARH, BOLANGIR, ODISHA.					
INTERNAL ELECTRICAL WORK FOR SCHOOL BUILDING					
Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	INTERNAL WIRING				
1	Recessed wiring to light point / first light of group control/ call bell point/ exhaust fan point /wall fan point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metalic PVC conduit with 6 Amp, 250 V clip in type switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge.				
	Group C	Nos.	150	1,497.42	2,24,613.00
2	Recessed wiring to secondary light point looped from primary light point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including 3 plate ISI marked Ceiling rose with all accessories & connection as per direction of Engineer-in-charge. Average Length 2 mtrs.	Nos.	55	564.04	31,022.20
				-	
3	Recessed wiring to ceiling fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch,Stepped type Moudular Regulator, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. Group c	Nos.	65	1,964.70	1,27,705.50
				-	
4	Recessed wiring to Twin control light point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metalic PVC conduit with 6Amp, 250 V clip in type 2way switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer-in-charge.Group C	Nos.	10	2,017.80	20,178.00
				-	
5	Recessed wiring for 5 / 6 amp socket outlet with 6Amp, 250 V clip in type modular switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection on same switch board as per direction of Engineer-in-charge.	Nos.	53	682.04	36,148.12
				-	
6	Recessed wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metalic PVC conduit with 6Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection on separate board as per direction of Engineer-in-charge Group C	Nos.	5	1,674.42	8,372.10
				-	
7	Recessed wiring for 2 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of Engineer-in-charge.	Nos.	35	1,251.98	43,819.30
				-	
8	Recessed wiring for 6 pin 16 amp socket outlet with 16Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection as per direction of Engineer-in-charge.	Nos.	20	1,083.24	21,664.80
				-	
9	Recessed wiring for A.C/ Power socket outlet with industrial type socket outlet, plug top and metal chained cover in sheet steel enclosure ,20A/32A SP MCB including all accesories and connection as per direction of Engineer-in-charge.	Nos.	5	1,293.28	6,466.40
10	Recessed wiring to exhaust fan/Wall Fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metallic PVC conduit with 6Amp 250V Modular Switch, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge.Group C	Nos.	22	1,497.42	32,943.24
11	Call bell point	Nos.	3	1,689.76	5,069.28

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
12	Recessed wiring for 3 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accessories and connection on separate board as per direction of Engineer-in-charge.	Nos.	1	1,405.38	1,405.38
				-	-----
	SUB TOTAL			-	5,59,407.32
	SUBMAIN			-	
13	Recessed wiring to submain in 4 x 10 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	75	579.38	43,453.50
				-	
14	Recessed wiring to submain in 4 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	395.30	59,295.00
				-	
15	Recessed wiring to submain in 2 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 25 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	20	280.84	5,616.80
				-	
16	Recessed wiring to submain in 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	750	240.72	1,80,540.00
				-	
17	Recessed wiring to submain in 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	1850	219.48	4,06,038.00
				-	
18	Recessed wiring to submain in 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	202.96	30,444.00
				-	-----
	SUB TOTAL			-	7,25,387.30
				-	

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
19	DB			-	
	Supply and fixing of following way three pole and neutral, sheet steel, MCB distribution, 415 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic cover for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required with necessary MCB , RCCB / ISOLATORS as required. Note for MCB- There should be colour indication for tripping On ,Off & Trip/There should be mid trip position for toggles for electrical fault conditions.			-	
a)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For PDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-63A FP MCB (10KA) Outgoings-10/20A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
b)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For LDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
c)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For UPS DB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below. Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
				-	
	SUB TOTAL			-	1,50,198.66
				-	
	CABLE			-	
20	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 3.5core 150 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	200	2,289.20	4,57,840.00
21	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 3.5core 95 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	50	1,616.60	80,830.00
22	Supply & Laying of one number of PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of 4 core 16 sq.mm Aluminium on surface as required.	Rmt	20	634.84	12,696.80
	SUB TOTAL			-	5,51,366.80
				-	
	END TERMINATION			-	
	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum cable of 1.1 KV as required.			-	
23	3.5C x 150 sq.mm	set	2	1,239.00	2,478.00
24	3.5C x 95 sq.mm	set	2	1,121.00	2,242.00
25	4C x 16 sq.mm	set	2	649.00	1,298.00
	SUB TOTAL			-	6,018.00
				-	
	PANEL			-	
	Supply, installation, testing & commissioning of floor mounting front operated front access extensible type cubicle panel totally enclosed, dust and vermin proof with IP-42 /55 protection with hinged and lockable doors. CRCA sheets including interconnections, tinned copper crimping lugs, bonding to earth and painting suitable for use at 415 V, 3phase 4 wire 50 Hz system, and to withstand a fault level of 35 KA symmetrical for 1 sec at 415 V complete as per specifications, as required and as below : All switchboards shall have provision for entry of cables from the bottom as required. All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The bus bars shall be insulated with heat shrinkable sleeves. SMC/DMC shrouds and busbar supports shall be used with Indication lamp, C.T , Digital Voltmeter, Digital Ammeter and control fuse etc. complete.			-	
26	MAIN PANEL with 150A 4P MCCB 36KA -1 No as incomer, 63A 4P MCB 10KA 4Nos, 100A 4P Change over Switch 1Nos, 40A 4P MCB 10KA-9Nos, 32A DP MCB 10KA-3Nos with E.C Busbars with 4nos 65KA VSD along with 4nos 32A SP MCB.	set	1	1,91,504.56	1,91,504.56

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	SUB TOTAL			-	1,91,504.56
				-	
	EARTHING			-	
27	Earthing with copper earth plate 600 mm x 600mm x 3.15 mm thick ISI marked including accessories and providing masonry with cover plate having locking arrangement and watering pipe etc with charcoal and salt as required.	Set	4	16,233.26	64,933.04
28	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	Rmt	15	860.22	12,903.30
29	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked on surface or in recess for connection etc as required.	Rmt	50	923.94	46,197.00
30	Providing and fixing 8 SWG CU wire on surface or in recess for loop earthing as required.	Rmt	50	105.02	5,251.00
	SUB TOTAL			-	1,29,284.34
				-	
	FIXTURE			-	
	Supply, installation, testing and Commissioning of pre-wired fluorescent fitting / compact fluorescent fitting /LED fitting of all sizes complete with all accessories and lamp etc. directly on ceiling /wall or recessed in false ceiling , including connection with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor and earthing as required.			-	
31	Ceiling mounted indoor type batten type LED Luminaire with LED Lamp	Nos	130	554.60	72,098.00
32	Ceiling/ Wall mounted type BULK HEAD Luminaire	Nos	10	1,267.32	12,673.20
33	Supply, Installation, testing and commissioning of 10W Mirror Light	Nos	15	364.62	5,469.30
34	Supply, Installation, Testing and Commissioning of ceiling fan 1200mm sweep, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor as required.	Nos	65	4,659.82	3,02,888.30
35	Supply, Installation, testing and commissioning of exhaust fan of 250 mm PLASTIC Exhaust Fan (Vntilation Fan) complete, connection, etc as required.250MM CRISP AIR EXH FAN.	Nos	17	2,109.84	35,867.28
36	Supply & fixing of 18W LED Down Light (S/R) with all accessories.	Nos	50	1,250.80	62,540.00
37	Supply & fixing of LED 36w 2'x2' Surface/Recessed Mounted Light as required .	Nos	15	2,269.14	34,037.10
38	Supply & fixing of 6W LED Down Light (S/R) with all accessories.	Nos	10	636.02	6,360.20
39	Supply, Installation, testing and commissioning of wall fan of 400 mm sweep as required.Model-400mm STRIKER HI SPEED.	Nos	5	3,645.02	18,225.10
	SUB TOTAL			-	5,50,158.48
	PERFORATED CABLE TRAY			-	
	Supply and installation of Pregalvanised Perforated type cable trays without cover. The rate shall include bends, Tees, all supporting brackets, anchor fasteners, screws, bolts, nuts etc., including painting of cable trays. Thickness of sheet steel shall be 2 mm. Support sizes			-	
40	Size of Cable Tray :300 mm x 50 mm	Rmtr	10	916.86	9,168.60
41	Size of Cable Tray :150 mm x 50 mm	Rmtr	40	712.72	28,508.80
	SUB TOTAL			-	37,677.40

Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
				-	
	TV /TEL & DATA			-	
42	Supplying and fixing of clip in type modular Telephone socket ISI marked mounted on G.I modular box with face plate & cover of suitable size ,including all accesories and connection as per direction of Engineer in Charge.	Nos	10	450.76	4,507.60
43	Supplying and fixing of clip in type modular T.V. antenna socket ISI marked on mounted on G.I modular box with face plate & cover of suitable size , including all accesories and connection as per direction of Engineer in Charge.	Nos	10	462.56	4,625.60
44	Supplying and drawing 4 pair, 0.5 sq.mm FR PVC insulated coper conductor, unarmoured telephone cable in existing surface / recessed PVC conduit as required.	Rmt	250	53.10	13,275.00
45	Recessed wiring to television point with cable RG-6 grade, 0.7 mm solid copper conductor PE insulated shielded with fine tined copper braid and protected with FR PVC sheath in in existing surface / recessed PVC conduit as required as per direction of Engineer in Charge.	Rmt	150	47.20	7,080.00
46	Supplying and fixing of following sizes PVC conduit along with accessories in recessed wiring including cutting the wall and making good the same in case of recessed conduit as required.			-	
	20mm	Rmt	250	121.54	30,385.00
47	Supplying and fixing of 16 / 18 SWG metal box of 200 mm x 150 mm x 60 mm deep on surface / recess with suitable size of phenolic laminated sheet cover in front including cutting the wall and making good the same in case of recessed conduit as required. (Tel junction Box)	Nos	1	212.40	212.40
48	Supplying & Commissioning of Telephone Hand Set.	Nos	10	866.12	8,661.20
49	Supplying & installation of 100 pair KRONE make moudles with locking & key arrangements fabricated with MS sheet & powder coated to be fixed on concealed manner incl. good the damages.	set	1	2,950.00	2,950.00
50	SITC of 4 pair Cat6 23 awg U/UTP LSZH Cable in the existing surface/ recessed steel/ PVC conduit as required: The 4 pair Unshielded Twisted Pair cable shall be UL Listed,exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E , 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must,Insertion Loss of 32.8 db/100m at 250 MHz , Cable should support operating temperature from -20° to +70°C Cable support Conductor Resistance ≤ 9.38 Ω/100m Max., Cable support Delay Skew: < 45 ns/100m, Operating Voltage: 72V , Impedance: 100 ± 15 Ω @100 MHz. and Propagation Delay @250 MHz : 536 ns/100m ETI Verified 4 connector channel performance up to	Mtr	750	97.94	73,455.00
51	Supply & fixing of RJ-45Jack of Category 6 with Dual-port British-style Face plate 86x86 mm with Curveture and wall mount box.	Nos	20	1,117.46	22,349.20
	SUB TOTAL				1,67,501.00

	TOTAL INTERNAL ELECTRICAL WORK=				30,68,503.86

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA								
BILL OF QUANTITIES (CIVIL WORK)								
Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
1	Item No. 16 & Page No. 19	Excavation, loading, unloading and carriage by mechanical means of all kinds of soil, including stoney earth, gravel and moorum etc interspread with boulders upto 1/2 cum size with all lifts and delifts including trimming of slopes and bed to design section and depositing the excavated materials away from work site as per the specification and as directed by the Engineer- in-charge within an initial lead of 1km from the place of excavation complete.						
		Ground Floor	Cum	2645.49	117.41		3,10,606.98	
		C.WALL	Cum	136.79	117.41		16,060.51	
2	Ref:AOR(O disha)/I.Earth Work- 14,Page No- 8	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	Cum	881.83	204.26		1,80,120.83	
3	Item No. 16 & Page No. 19	Filling the Foundation, Sides of Foundation, etc. in mechanical means with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of machinery, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.			-			
		Ground Floor	Cum	1763.66	117.41		2,07,071.32	
		C.WALL	Cum	91.19	117.41		10,706.62	
4		Supplying, diluting and preparing chemical emulsion like Imidacloprid 30.5 % SC or other chemicals approved by Central Insecticides Board or as directed by the manufacturer and spraying the mixture uniformly by sprayer as Pre/Post-Constructional Anti-termite Treatment conforming to IS 6313 (Part-II) including the cost of all materials, cost of all labour, conveyance, loading, unloading, T&P, etc. all complete as per the direction of Engineer-in-Charge.			-		-	
		Ground Floor	sqm	1818.06	-	123.31		224184.9786
5	Ref:AOR(O disha)/I.Earth Work- 15,Page No- 8	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth , well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the direction of Engineer-in-charge.			-	-	-	
		Ground Floor	Cum	177.27	1,112.74	-	1,97,255.42	
		C.WALL	Cum	6.62	1,112.74	-	7,366.34	
6	Ref:AOR(O disha)/III- Concrete - 3,Page No- 43	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.			-	-	-	
		Ground Floor	Cum	428.91	7,365.21	-	31,59,010.51	
		C.WALL	Cum	11.63	7,365.21	-	85,657.35	
		RCC WORK			-	-	-	
7	Ref:AOR(O disha)/IV- RCC- 10- iv,Page No- 54	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance, loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement.			-	-	-	
		(A)R.C.C. foundation and footing bases of columns mass concrete pre-cast slab etc.			-	-	-	
		Ground Floor	Cum	343.45	8,294.57	-	28,48,771.44	
		C.WALL	Cum	9.00	8,294.57	-	74,651.17	
		R.C.C. Plinth Beam			-	-	-	
		Ground Floor	Cum	135.85	9,327.07	-	12,67,083.00	
		C.WALL	Cum	5.63	9,327.07	-	52,511.43	
		(B)R.C.C. Column &cRoof Beam			-	-	-	
		Ground Floor	Cum	269.33	19,371.71	-	52,17,381.58	
		C.WALL	Cum	3.09	19,371.71	-	59,858.57	
		Terrace	Cum	34.40	21,822.80	-	7,50,704.39	
		(C) R.C.C. Slab			-	-	-	
		Ground Floor	Cum	242.35	15,119.81	-	36,64,286.44	
		C.WALL	Cum	0.42	15,119.81	-	6,350.32	
		Terrace	Cum	13.65	16,720.60	-	2,28,236.19	
		(D)R.C.C. Staircase			-	-	-	
		Ground Floor	Cum	10.09	19,207.57	-	1,93,804.36	
		(E)R.C.C. lintel			-	-	-	
		Ground Floor	Cum	33.16	17,404.41	-	5,77,130.24	
		Terrace	Cum	0.97	19,462.21	-	18,878.35	
		(F)R.C.C. Fins			-	-	-	
		Ground Floor	Cum	17.02	14,271.98	-	2,42,909.13	

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA								
BILL OF QUANTITIES (CIVIL WORK)								
Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
8	Ref.AOR(O disha)/IV- RCC-9,Page No- 52	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).			-	-	-	
		Ground Floor	Qntl	977.97	11,257.67	-	1,10,09,665.49	
		C.WALL	Qntl	22.54	11,257.67	-	2,53,747.93	
		Terrace	Qntl	76.47	11,297.87	-	8,63,948.47	
		BRICK WORK			-	-	-	
9	Ref.AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying Brick Masonry work in Foundation & Plinth using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % conforming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge.			-	-	-	
		Ground Floor	Cum	194.50	6,703.46	-	13,03,823.36	
		C.WALL	Cum	17.34	6,703.46	-	1,16,238.03	
10	Ref.AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying Brick masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % conforming to IS 12894 and IS 2212 in cement mortar (1:4) for Half Brick Masonry Wall with provisions for 2 nos 6mm dia MS bar at each 4th layer after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, scaffolding, staging, watering and curing, sundries, T&P, etc. complete as per the direction of the Engineer-in-charge. (Excluding Cost Of Steel Reinforcement).			-	-	-	
		Ground Floor	Cum	34.41	6,997.87	-	2,40,796.78	
11	Ref.AOR(O disha)/VI- Brick Work- 03,Page No- 71	Providing and laying of Full Brick Masonry work in Superstructure using Fly ash bricks of 25 Cm. x 12 Cm. x 8 Cm. size having crushing strength not less than 75 Kg./Cm2 with dimensional tolerance + 2 % conforming to IS 12894 and IS 2212 in cement mortar (1:6) after immersing the bricks for minimum 6 hours in water before use, with all necessary projections, splays cutting, circular moulding, corbelling, etc. as per the drawings including the cost of all materials, cost of all labour, conveyance, royalties,			-	-	-	
		Ground Floor	Cum	453.25	6,742.87	-	30,56,207.64	
		C.WALL	Cum	25.88	6,742.87	-	1,74,505.58	
		Terrace	Cum	158.97	7,198.24	-	11,44,303.58	
12	Ref.AOR(O disha)/X- Plastering- 27,Page No- 109	Providing 6 mm thick Cement Plaster in Cement Mortar of (1:4) to Ceilings of Roof Slabs, Stairs, Landings, Chajja, Shelves, Columns, Beams and Lofts etc. including roughening, scraping and cleaning and finishing the plastered surface smooth using wooden floats only to proper plumbs and level, making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading and royalties, all labour, scaffolding, watering and curing , sundries, T&P etc. complete as per direction of the Engineer-in-charge			-	-	-	
		Ground Floor	Sqm	83.59	256.41	-	21,433.65	
		C.WALL	Sqm	64.71	256.41	-	16,592.55	
13	Ref.AOR(O disha)/X- Plastering- 16,Page No- 106	Providing 12mm thick cement plaster in cement mortar (1:4) to the surface of half brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer in-charge.			-	-	-	
		Ground Floor	Sqm	2147.18	245.20	-	5,26,497.12	
		C.WALL	Sqm	3209.45	250.87	-	8,05,148.30	
14	Ref.AOR(O disha)/X- Plastering- 14,Page No- 105	Providing 16mm thick cement plaster in cement mortar (1:6) to the surfaces of brick masonry wall including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, royalties, cost of labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in- charge.(inner side)			-	-	-	

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA								
BILL OF QUANTITIES (CIVIL WORK)								
Sl. No.	Sub Head No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
		Ground Floor	Sqm	3559.07	332.88	-	11,84,736.10	
		C.WALL	Sqm	202.50	332.88	-	67,407.80	
		C.WALL	Sqm	170.16	341.26	-	58,068.12	
15	CCE LEVEL COMMITTEE MEETING HELD ON 12.02.2024 AT 11 AM	Waterproofing application:- Providing and application of two component polymer modified flexible cementitious waterproofing coating at a thickness of 1.5-2.5 mm The membrane should have Elongation equal or more than: 30% etc.as per direction of E.I.C (For longer span, in errace panel of 4m*4m should be done by roovecutting, and filling with PU Sealant) Crack Bridging ability: Up to 1 mm Adhesive strength: 1.0 N/mm² @ 28d Tensile elongation: 60% @ 20°C Shore A Hardness >85 (between 3-7 days)			-	-	-	
		Terrace	Sqm	1874.36	578.20	-	10,83,754.95	
		FINISHING WORK			-	-	-	
16	Ref: OPWD/Revised Analysis of Rate/Ch- XIX-SI. No.2	Supplying and finishing the plastered surface of wall using 2 Coats of Cement Based Wall Putty (Water Based) of approved make and quality and finished smooth and even surface to receive the paint including the cost of all materials, cost of all labour, conveyance, taxes, loading, unloading, scaffolding, T&P, etc, all complete as per the direction of Engineer- in-Charge.			-	-	-	
		Interior Wall Putty			-	-	-	
		Ground Floor	Sqm	5096.62	76.11	-	3,87,903.75	
		C.WALL	Sqm	170.16	78.35	-	13,332.38	
17	Ref:AOR(ODisha)/IX- Painting- 1,20 & Page No- 93,99	Providing and applying 2 coats plastic emulsion paint of approved quality and shade over a coat of wall primer of approved quality to surfaces (interior) including thoroughly brushing the surface free from foreign materials, sand papering smooth the intermediate coats, providing necessary putty & primer including of all materials, labour, conveyance, royalties, scaffolding, watering, curing, sundries, tools and plants etc as per the direction of Engineer-in-charge. (colour & shade to be approved before procurement & use)			-	-	-	
		Ground Floor	Sqm	5168.33	229.04	-	11,83,743.97	
		First Floor	Sqm	267.94	234.11	-	62,727.97	
18	Ref:AOR(ODisha)/IX- Painting- 1,20 & Page No- 93,99	Providing and Painting with Two Coats Weather Coat Paint (exterior grade) of approved make & shade manufactured by reputed manufacturer make an even finished surface over a coat of water bound cement primer and wall putty in all heights with all scaffolding and staging charges including cost, conveyance, cost of all labours, T & P, sundries etc. as required for the work complete.			-	-	-	
		Ground Floor	Sqm	2446.95	219.72	-	5,37,634.07	
		TERRACE	Sqm	267.21	219.72	-	58,710.31	
		First Floor	Sqm	1350.36	228.09	-	3,08,009.01	
19	Ref:AOR(ODisha)/IX- Painting- 1,20 & Page No- 93,99	Painting two coats of synthetic enamel paint over Iron Works as per approved shade of approved quality over a coat of primer, sand papering, polishing the surface including cost, conveyance, labour, T&P, scaffolding etc. as required for the work complete as per direction of Engineer-in-charge. (The paints and primer are to be approved before procurement and use)			-	-	-	
		Ground Floor	Sqm	201.09	317.42	-	63,829.99	
		C.WALL	Sqm	44.41	317.42	-	14,096.62	
		First Floor	Sqm	25.62	323.20	-	8,280.44	
20	Ref: Revised Analysis of Rate (Ch- XIX/SI. No/1 -b)	Providing and laying of 600 mm x 600 mm Vitrified Floor Tiles Matt Finish Anti Skid Plain Series confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	775.10	1,356.17	-	10,51,170.47	
21	Ref: Revised Analysis of Rate (Ch- XIX/SI. No/1 -b)	Providing and laying of Vitrified Tiles Matt Finish Plain Series in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size. 600mm x 600mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	73.80	1,515.47	-	1,11,841.98	

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA								
BILL OF QUANTITIES (CIVIL WORK)								
Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
22	Ref: Revised Analysis of Rate (Ch- XIX/Sl. No./1 -b)	Providing and laying 300mmx300mm antiskid ceramic floor Tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	82.32	1,301.66	-	1,07,152.49	
23	Ref: Revised Analysis of Rate (Ch- XIX/Sl. No./1 -b)	Ceramic wall tile With Epoxy Grout For Toilet Providing and laying of Glazed Ceramic Wall Tiles in dado/skirting confirming to IS : 15622 of approved make, quality, colour and size 300mm x 450mm upto required height from floor level fixed over an under layer of 12mm thick bed of cement mortar (1:3) (1 Cement : 3 Coarse sand) including cutting to size, laying and spacer of 4mm for grouting the joints of tiles using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg) to match the shade and colour, cleaning the surfaces with acid including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in- Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	318.76	1,453.05	-	4,63,174.86	
24	Ref: Revised Analysis of Rate (Ch- XIX/Sl. No./1 -b)	Providing & laying Heavy Duty Vetrified Floor Tile Matt Finish Rustic Series having thickness 10mm confirming to IS 4457 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces with oxalic acid, machine grinding, mirror polishing including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer- in- Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	662.15	1,463.67	-	9,69,170.41	
25	Ref: OPWD/Analysis of Rate/Page No.90	Providing & laying Heavy Duty Vetrified Tile Matt Finish Rustic Series having thickness 10mm in dado/skirting confirming to IS : 15622 of size 600mmx600mm of approved make, quality and colour without any warpage laid over an under layer of 12mm thick cement mortar (1:3) (1 cement: 3 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in- Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	75.83	1,623.33	-	1,23,096.81	
26	Ref: Revised Analysis of Rate (Ch- XIX/Sl. No./1 -b)	Providing and laying 300mm x 300mm Chequered Tiles. tiles confirming to IS : 15622 of approved make, quality and colour without any warpage laid over 20 mm thick base of cement mortar (1:4) (1 cement: 4 coarse sand) including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, taxes, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in-Charge. (Note- Sample of tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	136.51	812.90	-	1,10,969.25	
27		Providing & laying granite stone flooring in Floors and landing using 19-20 mm thick granite stone slab of approved quality, colour and size above 0.4 Sqm as per IS 14223 laid over an under layer of 20 mm thick cement mortar (1:4) (1 cement: 4 coarse sand) confirming to IS-1443 including cutting to size, laying and filling the joints with white cement slurry mixed with colouring pigment to match the shade and colour, cleaning the surfaces including the cost of all materials, cost of all labour, conveyance, royalties, loading, unloading, sundries, watering and curing, T&P, etc. complete as per the direction of the Engineer-in- Charge. (Note- Sample of granite tiles shall be approved before procurement and use.)			-	-	-	
		Ground Floor	Sqm	9.45	3,718.53	-	35,140.15	

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA								
BILL OF QUANTITIES (CIVIL WORK)								
Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
28	Ref: DAR- SH-26.86.6	Providing and fixing 65mm X 125mm factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceostory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm2, modulus of elasticity 900 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on			-	-	-	
		Ground Floor	Rmt	99.75	1,398.77	-	1,39,527.51	
29	Ref: DAR- SH-26.88.1 2023	Providing and fixing of 30 mm thick factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm2, modulus of elasticity 850 N/mm2 and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with SS 304 Grade Matt Finished 3 Nos butt hinges of Size 100mm X 60mm X 2.5mm, 1 No 250mm X 16mm Aldrop,1 No 150mm x 16mm tower bolt,2 No 150mm length Door handle with necessary full body threaded star headed counter sunk S.S screws, floor/hanging door stopper & hydraulic door closer as required and mentioned in architectural drawing all as per direction of Engineer-In-Charge.			-	-	-	
		Ground Floor	Sqm	139.28	6,179.07	-	8,60,620.87	
30		Supplying and fixing of Powder coated 50-60 microns approved colour of aluminium 40mm Casement series Door Unit with suitable aluminium extrude profiles, the system is designed to accommodate 12mm clear toughened glass. the rate quoted inclusive of hardwares like antiift, roller, Espag lock cum handle, epdm gaskets, T mullion, Fly Mullion, bottom adopter, mid transom, glazing clip for 12 mm glass felt along with all accessories etc complete. The gap between the wall and window will be filled with silicon weather sealant in the outer side. including the cost of all materials ,hardware fittings, cost of all labour, conveyance, loading, un loading, T&P, etc, complete as per the direction of Engineer-in Charge.(As per Proceeding of C.C.E. Level committee meeting held on dt. 12.02.2024 at 11.30 A.M.)			-	-	-	
		Ground Floor	Sqm	4.32	-	14,664.80		63351.95328
31	Item No. 16 & Page No. 19	Supplying, fitting and fixing of M.S. grill ,Grated doors etc made out of M.S. flats/square bars as per drawing and design fixed in position to proper plumb with cost, conveyance, Materials, labour, T&P etc. required for the complete in all respect as per the direction of Engineer-in-Charge.			-	-	-	
		Ground Floor	Kg	8202.65	117.26	-	9,61,814.85	
		C.WALL	Kg	3683.16	117.26	-	4,31,874.82	
		Terrace	Kg	947.65	117.26	-	1,11,118.22	
32		Supplying, fabricating & fixing of polished stainless steel (304 grade) items made out of pipes, angles, flats, plates, hollow tube, square pipe bracing as per approved design and specification, buffing, polishing etc. with cost, conveyance, labour in railing, parapet, staircase, space frame etc required for the work complete in all respect as per direction of Engineer-in-charge.			-	-	-	
		Ground Floor	Kg	468.01	405.68	-	1,89,864.17	
33	SOR Sl. No 12 Page-235	Supplying , fitting and fixing of two track UPVC sliding window of approved make with 6mm thick glass of approved quality complete with frame, shutters and all fitting and fixtures.			-	-	-	
		Ground Floor	Sqm	147.15	5,853.94	-	8,61,407.95	
34		Providing and fixing barbed wire fencing on R.C.C. (1:2:4) fencing posts with chips 1.68M long 13cm x 13cm at bottom and 8cm x 8cm at top and 30cm 30cm x 8 cm base finished smooth by means of staples and staining hooks by means of tying with G.I wire and including cost of barbed wire, staples, hooks, tying wires and labour, post etc complete in all respect as per the direction of the Engineer-in-charge.			-	-	-	
		Length of Barbed Fencing	Rmt	300.00	1,062.92	-	3,18,876.12	
35	Market Rate	Supplying, Providing and installing of modified flexible polyolefin (FPO) memebrane system (Water Proofing tape) which shall be designed to be bonded over expansion and movement joints upto 200 mm in structures to prevent the passage of water having elongation at break more than 600%, maximum permissible permanent elongation shall not less than 20% and having registance to agressive conditions like ground water, soil, cement water, bitumen and bitumen emulsion coatings .It is bonded in position using two part epoxy adhesive and consumption of adhesive shall be as per manufacturers direction after proper fixing of the necessary back upmaterials as specified and directed by the EIC.The item rate shall be including all materials, all kinds of labours, T & P, machinaries, lead and lift, mathadi Charges, curing, wastages,consumables, cleaning, shifting of debris outside the premises, surface preparation etc complete as per design, drawing & direction of EIC.			-	-	-	
		Ground Floor	Rmt	154.00	-	3,157.80		486300.892

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA								
BILL OF QUANTITIES (CIVIL WORK)								
Sl. No.	Sub Head Sl. No.	Description of items	Unit	Quantity	Rate(Rs)		Amount(Rs)	
					SOR	Non-SOR	SOR	Non-SOR
(i)		CIVIL WORK					-	
36	CPWD	Providing and fixing of expansion joint system (150 mm 200 mm wide) related with wall/soffit/ceiling joint(internal/external) location as per drawings and direction of Engineer-In-Charge. The joints shall be of extruded aluminum base members,aligning / centering arrangement and support plates as per ASTM B221-selfCharge.02. The material shall be such that it provides an Expansion Joints System suitable for vertical wall to wall/ wall to corner application,as well as horizontal covers for Soffits/ Ceilings both new and existing construction in Buildings/complexes/Structures 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 conform to ASTM 6063). The design			-	-		
		Ground Floor	Rmt	10.50	-	6,260.67		65737.0035
37	(DAR 2006-Page No-249 item-14)	Providing and fixing factory made uPVC white colour casement/casement cum fixed glazed windows comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon			-	-		
		Ground Floor	Sqm	21.60	5,853.94	-	1,26,445.20	
		TERRACE	Sqm	16.80	5,853.94	-	98,346.27	
38	(DAR 2006-Page No-247 item-13)	Providing and fixing of partly fixed partly top hung and partly louvered windows of approved make to be fabricated from roll formed sections made of pre-painted steel (base steel as per IS-513 of 0.6 thick "D" quality, galvanized as per IS-277 with zinc of 120 Gm/Sq.mtr) with paint specification being with primer of 5-7 microns and finished paint with polyester paint (Black /Pearl white/ Chocolate Brown) of 12-16 microns alongwith the alkyd backer at the back of 5-7 microns and the sizes of outer frame being of 46x52 mm and with all vertical and horizontal mullions are of 46x70 mm and fixed beadings are of 18x25 mm. Section for internal top and bottom frames in the louvered areas should be 18 x 40 mm. Top hung shutter should be of 46 x 46 mm. Accessories / gaskets are to be used as per the manufacturer's supply and specification like handle being made of high grade aluminium powder coated and with nylon receiver and gasket will be made of EPDM. All corner brackets are to be made of CRCA with zinc phosphating. The mullion caps and louvered- clips should be of glass filled nylon. The sections are to be cut to length,mitre joined with corner bracket and frames are fixed to the concrete/masonry walls by			-	-		
		Providing and fixing of 12mm thick Clear Toughened Glass Frameless Door With			-	-		
		Ground Floor	Sqm	9.72	5,885.10	-		
		Total					5,10,13,168.80	8,39,574.83

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA					
A.	INTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
1	Providing and fixing Chlorinated Polyvinyl Chloride [CPVC] pipes SDR-11 conforming to IS:15778, having thermal stability for hot & cold water supply , including all CPVC plain & brass threaded fitting including fixing the pipe with clamps at 1.00m spacing . This includes jointing of pipes and fittings with one stp CPVC solvent cement and testing of joints complete as per specification and direction of Engineer-in-charge.				
	20 mm PVC sch-80 pipes	Mtr	70.0	362.97	25,407.76
	25 mm PVC sch-80 pipes	Mtr	70.0	503.62	35,253.68
	32 mm PVC sch-80 pipes	Mtr	100.0	692.90	69,289.60
	50 mm PVC sch-80 pipes	Mtr	120.0	1,417.77	1,70,132.40
				-	-
2	Supplying all materials,labour and T&P for cutting holes through existing brick work including making good to the same in cement mortar(1:4) for taking G.I. pipes and fittings /P.V.C. pipes and fittings all complete as per specification.			-	-
	250mm Thick	Each	38.0	80.00	3,040.15
				-	-
3	Supplying all materials,labour and T&P for cutting holes in R.C.C. floors and roofs up to 19 cm. thick including for passing GI / PVC pipes and fittings etc. and repairing the holes after insertion of pipes etc. with cement concrete 1:2:4 including finishing complete to make it leak proof leak to the damages all complete as per specification and direction of the Engineer-in-charge.			-	-
		Each	7.0	259.13	1,813.90
				-	-
4	Supplying all materials,labour and T&P for cutting groves in pucca floor and walls for taking G.I. pipes and fittings /P.V.C. pipes and fittings and making good to the damages all complete as per specification.			-	-
		Mtr	70.0	335.00	23,450.14
				-	-
5	Supplying all materials, labour T&P and fitting and fixing brass/CP fittings of the following nominal bore with supply of all jointing materials complete as per specification and direction of the Engineer-in-charge.			-	-
				-	-
a)	Supplying all labour and T&P for fixing 2 in 1 bib cock of the following size as per specification all complete.			-	-
		Each	16.0	1,543.79	24,700.70
				-	-
b)	Supplying all labour and T&P for fixing long body bib cock of the following size as per specification all complete.15mm Dia			-	-
		Each	4.0	1,272.28	5,089.10
				-	-
c)	Supplying all labour and T&P for fixing CP Angular stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete. 15mm Dia			-	-
		Each	28.0	1,106.37	30,978.30
d)	Supplying fitting fixing of C.P Pillar Taps highpressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification. 15mm Dia			-	-
		Each	17.0	1,740.50	29,588.50
				-	-
e)	Supplying all labour and T&P for fixing CP short body Bib cock [taps] polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete .			-	-
		Each	3.0	1,080.29	3,240.87
				-	-
f)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete.) 25mm Dia	Each	6.0	810.78	4,864.67
				-	-
g)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 32mm Dia	Each	4.0	1,677.49	6,709.95
				-	-
h)	Supplying all labour and T&P for fixing U.P.V.C Ball valve [horizontal plungr type] confirming to IS:1703-1977 of the following nominal sizes as per specification all complete. 50mm Dia	Each	2.0	3,687.62	7,375.24
				-	-

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHSHIAL, TUREKELA, BOLANGIR, ODISHA					
A.	INTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
i)	Providing and fixing C.P. Brass Extension Nipple 1 inch with extension piece as per direction of Engineer-in-charge.	Each	15.0	701.38	10,520.70
				-	-
j)	Supplying fitting fixing of CP waste of the following nominal diameter for wash hand basin and sink as per specification.	Each	14.0	448.52	6,279.25
				-	-
k)	Supplying all materials, labour and T&P for fixing CP Gratings of the following nominal diameter of outlet, of self cleaning design with sand cast iron screwed down or hinged grating with or without vent arm including cutting and making good to the walls and floors etc. all complete as per specification.			-	-
		Each	38.0	1,404.67	53,377.54
				-	-
l)	Providing and fixing of approved make and model for Chrome plated Grab Bar, for Physically challenged toilet, The work shall include the cutting of walls or floors & making good, complete as per direction of Engineer in Charge.			-	-
		Each	1.0	5,177.18	5,177.18
				-	-
6	Supplying fitting fixing of C.P health faucet high pressure lettered Hot and cold with long screws shanks and back nuts of the following nominal bore as per specification.			-	-
	15mm dia CP Health Faucet of 1mtr long PVC tube			-	-
		Each	8.0	955.56	7,644.51
				-	-
7	Providing and fixing of Rational moulded polyethylene cylindrical vertical water storage tanks conforming to IS:12701- 1996 including cutting holes through the tank and fixing mild steel tubes and fittings and providing extra sockets and jam nuts, fixing ball valve etc. including hoisting up to a height of 5.00metres above ground level and placing the tank to the required position etc. all complete as per specification and direction of the engineer-in-charge.			-	-
i)	Overhead water storage tanks	Lit.	8000.0	16.04	1,28,289.60
	Extra over item no.3.1.8 for hoisting Rational moulded polyethylene cylindrical vertical water storage tanks of following sizes for every additional height of 5.00m. Or part thereof complete as per specification and direction of the engineer-in-charge.			-	-
	Water storage tanks	Each	4.0	1,472.64	5,890.56
8	Supplying all materials, labour, T&P and fitting and fixing U- PVC SWR soil waste ventilating pipes and fittings of the following outside diameter conforming to ISI No 13592/1992 to walls with nails, bobbins and wooden plugs or laying in trenches including jointing with supply of approved rubber lubricant by non-heat application method/as per manufacturer's specification, testing, earthwork in excavation in all kinds of soil and refilling of trenches as per specification and direction of the Engineer-In-Charge.			-	-
	110mm diameter PVC SWR pipes	Mtr	105.0	461.73	48,482.07
	75mm diameter PVC SWR pipes	Mtr	90.0	286.62	25,795.98
	110mm PVC door Tee	Each	12.0	458.55	5,502.58
	75mm PVC door Tee	Each	5.0	345.74	1,728.70
	110mm PVC offset	Each	10.0	162.84	1,628.40
	110mm PVC door bend	Each	10.0	255.35	2,553.52
	75mm PVC door bend	Each	10.0	134.64	1,346.38
	110mm PVC plain shoe bend	Each	10.0	201.54	2,015.44
	75mm PVC plain shoe bend	Each	10.0	98.18	981.76
	110mm PVC vent cowl	Each	10.0	102.19	1,021.88
	75mm PVC vent cowl	Each	0.0	86.14	-
	110mm S-trap	Each	12.0	743.05	8,916.55
	110mm P-trap	Each	1.0	410.88	410.88
	110mm SWR Pipe Clip	Each	105.0	35.87	3,766.56
	75mm SWR Pipe Clip	Each	90.0	27.61	2,485.08
	110/75 mm Dia Reducer/Connector	Each	5.0	305.03	1,525.15
	90mm Nahani Trap	Each	33.0	171.81	5,669.66
9	Supplying all materials, labour and T&P for fixing of PVC 10 ltr capacity low level flushing cistern with manually controlled device [handle cover] conforming to IS 7231 with fittings and fixtures etc. all complete as per specification.			-	-
	10 Liters capacity PVC cistern			-	-
		Each	16.0	2,306.07	36,897.18
				-	-
10	Supplying all materials, labour and T&P for fixing water closet, squatting pan (Indian type W.C. pan or Orissa pan) conforming to IS 2556 : Part-3- 2004 duly embedded in cement concrete (1:4:8) using 40mm nominal size h.b.g. chips [including foot rest for I.W.C. and trap] all complete as per specification and direction of the Engineer - in - charge.			-	-
		Each	8.0	4,528.49	36,227.89
				-	-

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA					
A.	INTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
11	Supplying all materials,labour and T&P for fixing in cement mortar (1:3) a pair of white vitereous china (250x130x30mm.) foot rest for squatting water closet. etc. all complete as per specificationand direction of the Engineer-in-charge.			-	-
				-	-
		Pair	8.0	661.86	5,294.90
				-	-
12	Supplying all materials,labour and T&P for fixing wash down water closet (European type W.C.) with integral "S" or "P" trap to the floor with wooden plug and chromium plated screw including jointing the trap with soil pipe in cement mortar (1:1) etc. all complete as per specification.			-	-
		Each	7.0	3,747.21	26,230.46
				-	-
13	Supplying all materials,labour and T&P for fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers all complete as per specification.			-	-
		Each	7.0	1,089.61	7,627.28
				-	-
14	Supplying all materials,labour and T&P for fixing wash hand basin (SS Made) with hole for pillar taps confirming to IS 2556:part4-2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			-	-
		Each	12.0	5,427.17	65,126.09
				-	-
15	Supplying all materials,labour and T&P for fixing corner wash hand basin with hole for pillar taps confirming to IS 2556:part4 2004 with cast iron /M.S. brackets painted white including cutting holes in walls and making good to the damages etc. all complete as per specification.			-	-
		Each	4.0	3,146.59	12,586.35
				-	-
16	Supplying all materials,labour and T&P for fixing Pedestal for wash hand basin complete recessed at the back for the receptionof pipe and fittings etc. all complete as per specification including cost of pedestal for wash basin			-	-
		Each	4.0	3,093.84	12,375.37
				-	-
17	Supplying all materials,labour and T&P for fixing of 600x450 bevelled edge mirror of superior glass mounted on 6mm thick ac sheet or ply wood sheet and fixed to wooden plugs with chromium plated brass screws and washers etc. All complete as per specification .			-	-
	600mmx450mm size B.E.mirror	Each	12.0	2,557.89	30,694.63
				-	-
18	Supplying all materials,labour and T&P for fixing standard size glass self with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws and washers etc. all complete as per specification.			-	-
		Each	13.0	946.01	12,298.08
				-	-
19	Supplying all materials,labour and T&P for fixing standard size C. P. towel rail fixed with chromium plated brass brackets fixed to wooden plugs with cromium plated brass screws complete as per specification.			-	-
		Each	8.0	1,274.52	10,196.14
				-	-
20	Supplying all materials,labour and T&P for fixing of cromium plated brass soap dish complete with chromium plated brass brackets fixed to wooden plugs with chromium plated brass screws as per specification.			-	-
		Each	16.0	418.19	6,691.07
				-	-
21	Supplying all materials,labour and T&P for fixing standard size C. P. towel ring fixed fixed to wooden plugs with cromium plated brass screws complete as per specification.	Nos	16.0	645.22	10,323.58
				-	-
22	Supplying all materials,labour and T&P for fixing of liquid soap container - glass container or plastic container with chromium plated brass lid and brackets fixed to wooden plugs with chromium plated brass screws as per specification.	Nos	4.0	2,086.83	8,347.32
				-	-

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR, ODISHA					
A.	INTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of work	Unit	Qty.	Rate	Amount Rs.
23	Supplying all materials,labour and T&P for fixing stainless steel AISI 304 [18/8] Kitchen sink as per IS 13983 with cast iron bracet and stainless steel plug including painting of fittings and brackets ,cutting and making good to the walls etc. all as per specification including cost of sink with all accessories.			-	-
		Nos	2.0	7,267.86	14,535.71
				-	-
24	Supplying all labour and T&P for fixing CP Concealed stop cocks polished bright confirming to IS:781-1995 of the following nominal sizes as per specification all complete.	Each	8.0	1,326.32	10,610.56
				-	-
25	Supplying all materials,labour and T&P for fixing Porcelain Urinal respectively with waste pipe by means of white lead mixed with chopped hemp etc. all complete as per specification.	Each	8.0	8,961.16	71,689.25
				-	-
26	Fixing standard size Chromium Plated brass or glazed porcelain Toilet paper holder fixed to woden plugs with Chromium Plated brass screws complete as per specification and direction of the Engineer in charge.	Each	2.0	1,404.55	2,809.11
				-	-
27	Providing and fixing approved quality E.W.C Matrix Set with grab bar set for Handicap (Accessible) Toilet consisting of stainless steel grab bars and support fittings required for differently-abled users, conforming to universal accessibility standards. The set shall include wall-mounted horizontal and vertical support bars near WC and wash basin area, made of SS 304 grade stainless steel with satin/matt finish, complete with necessary brackets, anchor fasteners, screws, bends, end caps, and accessories. The arrangement shall provide safe support and ease of movement for wheelchair users and physically challenged persons. Installation shall be done in proper alignment, level, and position as per approved drawings and accessibility guidelines, complete in all respects as per the direction of the Engineer in charge.	Each	1.0	94,164.00	94,164.00
				-	-
	Total Rs.				12,46,669.87

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA					
B.	EXTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
1	Supplying all materials, labour, T & P and constructing Gully trap chamber of the following inside size with 8 cm thick R.C.C. precast cover slab in CC (1:2:4) mix using 12mm size h.g. chips, foundation concrete (1:4:8) using 40mm size h.g. metal on bed around trap , Fly Ash brickwork in CM (1:6) in P&F and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mm x100mm size gully trap, 150mm x150mm C.I gratig etc. all complete as per aproved drawing, specification and direction of Engineer-in-charge.				
	250mmx250mm with RCC cover	Each	10.00	2,040.57	20,405.74
				-	-
2	Constructing inspection chamber with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.				
	Inspection Chamber inside size 750mm x 750mm and 450mm	Each	8.00	16,077.38	1,28,619.06
				-	-
3	Supplying all materials,labour and T&P for laying in trenches unplasticized PVC pipes and specials of the following outside dia. for all classes including jointing with approved solvent cement by non-heat application method including testing as per specification and direction of Engineer-in-charge etc. all complete. [including earth work and cost of pipes.				
a)	110 mm dia U-PVC pipes Class-3	mtr	60.00	1,207.97	72,477.96
b)	160 mm dia U-PVC pipes Class-3	mtr	30.00	2,587.74	77,632.20
				-	-
4	Constructing manholes with R.C.C top slab in (1:2:4) mix, foundation concrete (1:3:6), inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance \pm 8 percent in cement mortar (1:5), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber complete as per specification.				
a)	Plain Manholes inside size 900mm x 800mm and 450mm deep	each	8.00	21,494.17	1,71,953.38
				-	-
5	Construction of 50 Users Septic Tank (2 No.s)				
				-	-
a)-i	Earth work in excavation in foundation trenches, column foundation, pit, etc in all kind of soil including moorum stony earth and earth mixed with boulders except sheet rock and boulders not requiring blasting including dressing of sides and levelling the bed up to the required depth and depositing the excavated materials away from the work site with initial lead of 50 mtr and all lifts, including shoring, shuttering & dewatering (if required) with cost of labour, labour cess, hire & running charges of all machineries, sundries & T&P required for the work complete as directed by the Engineer in charge.	Cum	56.88	367.57	20,907.38
a)-ii	Above 1.5mt. Depth	Cum	47.57	394.12	18,748.29
				-	-
b)	Filling the Plinth with excavated materials (excluding rock), in layers not exceeding 0.225 m in depth including cost of watering, ramming, dressing and levelling the top to proper level & gradient, cost of labour, conveyance, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.	Cum	70.71	204.26	14,443.08
				-	-
c)	Supplying and Filling with Sand in Foundation and Plinth in layers not exceeding 20 cm in depth, well watered and compact , top surface dressed and levelled to proper level and gradient including cost of all materials , conveyance, royalties, loading, unloading, cost of all labour, T&P, etc.All complete as per the dirrection of Engineer-in-charge.	Cum	2.96	1,112.74	3,293.71
				-	-
d)	Providing and lying Plain Cement Concrete of proportion (1:4:8) in foundation & floor using 40 mm & down grade black hard crusher broken granite stone metal, washed and screened sharp sand of approved quality from approved quarry including hoisting, lowering, laying the concrete, ramming, watering and curing etc. complete to required thickness including cost of all materials, conveyance, loading, unloading, royalties, taxes, cost of labours, T&P, hire & running charges of concrete mixer, etc. all complete as per the direction of the Engineer -in -charge.	Cum	2.96	6,914.21	20,466.06
e)	Providing and lying Plain Cement Concrete of proportion (1:3:6) in foundation & floor using 40 mm & down	Cum	3.92	7,365.21	28,871.61
				-	-
f)	Providing 12mm thick cement plaster in cement mortar (1:4) with neat cement punning including racking out joints, scraping and cleaning the surface and finishing the plaster surface smooth using wooden floats, bars, etc only to proper plumbs and level and making grooves, beads and drip coarse to give required ornamental finish as per drawings including cost of all materials, conveyance, loading and unloading, taxes, royalties, cost of all labour, scaffolding, staging, watering before plastering and curing, sundries and T&P, etc. complete as per direction of the Engineer-in-charge.	Sqm	15.84	254.41	4,029.82
				-	-
g)	Providing, lifting, hoisting and laying in position machine batched , machine mixed and machine vibrated design mix cement concrete of M-25 Including the cost of Centering and Shuttering (minimum cement content not less than 403 Kg/Cum) grade in reinforced cement concrete structural elements using black hard crusher broken granite chips of approved quality from approved quarry including mixing and compacting to proper shape and size, level and plumbs and finishing the exposed surfaces smooth including the cost of all materials, cost of labour, conveyance,loading, unloading, royalties, watering and curing for the required period, T&P , hire & running charges of concrete mixer and vibrator, cost of Admixtures in recommended proportions (as per IS 9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability etc. complete as per the direction of the Engineer-in-charge but excluding the cost of steel reinforcement.				
i.	Base	Cum	5.47	8,294.57	45,371.32
ii.	Slab	Cum	4.64	15,119.81	70,155.93
iii.	Wall	Cum	21.33	14,271.98	3,04,421.38

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA , BOLANGIR,ODISHA					
B.	EXTERNAL P.H. & SANITARY WORK				
Sl. No.	Description of Work	Unit	Qty	Rate	Amount Rs.
h)	Providing & fixing TOR Fe-500D HYSD Reinforcement bars of required diameter and approved quality for Reinforced Cement Concrete work including straightening, cutting, bending, binding, welding(if approved) , joining (if necessary), tying the grills, hoisting, lowering and placing in position as per the approved design & drawings (BBS) with provision of standard fan hooks including the cost of all materials, cost of all labour, conveyance, loading, unloading, cost of binding wires of 18 to 20 gauge, T&P, etc, all complete as per the direction of Engineer-in-Charge. Note: (Linear measurements will be taken & quantity will be calculated on standard weight. Lap length of bars & Weight of binding wire will not be considered for measurement and payment).	Qtl.	42.45	11,257.67	4,77,888.18
				-	-
i)	Supplying all materials, labour, T&P and making MS step iron in 20mm diameter MS steel bars and fixing into walls of man hole/septic tank duly embedded in cement concrete (1:3:6) complete as per specification and direction of the Engineer in charge.	Each	4.00	188.92	755.67
				-	-
j)	Supplying all materials, labour, T&P and laying in trenches (to level or slope) and jointing with provision of stiff mixture of cement mortar in proportion of 1:1 for salt glazed stoneware pipes, Grade—A of the following internal diameters including testing of pipes and joints complete. 110mm diameter UPC pipe	Mtr	12.00	1,207.97	14,495.59
				-	-
6	Constructing RCC soak way pit with R.C.C top slab in (1:2:4) mix, inside plaster 12mm thick with cement mortar (1:3) finished with neat cement punning, 12mm thick outside cement plaster (1:3), brick work with K.B bricks having crushing strength not less than 75kg/cm ² with dimensional tolerance ± 8 percent in cement mortar (1:4), cement concrete (1:2:4) finished smooth using 12mm size h.g chips, complete as per specification.			-	-
a)	RCC soak way pit of size 1.5m x 1.8m deep	each	8.00	12,033.76	96,270.06
				-	-
	Borewell			-	-
7	Supplying all materials,labour T&P and providing fitting submersible pump with squarrel cage inspection type submerssible type submerssible electric motor to run on 3 phase/1 phase line voltage rangingfrom 320 volt to 450 volt conforming to IS :8034/89			-	-
a	One no. 3 phase 2 H.P 3 stage head range 30 to 54 mtr. Discharge 155 to 200 LMP with outlate dia 32mm.	Set	1	23,423.00	23,423.00
b	2.5 Sq mm cable.	Mtr	70	181.72	12,720.40
c	40mm dia steel short piece.	Each	2	238.36	476.72
d	Steel rope wit cover.	Mtr	70	41.77	2,924.04
e	Well Cap.	Each	1	238.36	238.36
f	50mm size CI bracket.	Each	1	143.02	143.02
g	20mm dia rigid HDPE pipes.	Mtr	70	117.76	8,243.48
h	Boring up to 30 mtr.	Mtr	30	1,050.55	31,516.62
i	Boring work Above 30 mtr.	Mtr	50	1,050.55	52,527.70
j	8" ASTM pipe SCH-80	Mtr	70	2,702.74	1,89,192.00
k	Delivery	Set	1	2,360.00	2,360.00
l	Labour charges for lowering of summerssible pumpset with pipes and cables etc with testing and commissioning at site.	Mtr	70	147.50	10,325.00
	Total Rs.				19,25,296.75

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA ,					
INTERNAL ELECTRICAL WORK FOR SCHOOL BUILDING					
Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
	INTERNAL WIRING				
1	Recessed wiring to light point / first light of group control/ call bell point/ exhaust fan point /wall fan point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metalic PVC conduit with 6 Amp, 250 V clip in type switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer in Charge.				
	Group C	Nos.	150	1,497.42	2,24,613.00
2	Recessed wiring to secondary light point looped from primary light point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metalic PVC conduit with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including 3 plate ISI marked Ceiling rose with all accessories & connection as per direction of Engineer-in-	Nos.	55	564.04	31,022.20
				-	-
3	Recessed wiring to ceiling fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metalic PVC conduit with 6Amp 250V Modular Switch,Stepped type Moudular Regulator, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge. Group c	Nos.	65	1,964.70	1,27,705.50
				-	-
4	Recessed wiring to Twin control light point with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metalic PVC conduit with 6Amp, 250 V clip in type 2way switch ISI marked and ceiling rose ISI marked mounted on G.I modular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection as per direction of Engineer-in-charge.Group C	Nos.	10	2,017.80	20,178.00
				-	-
5	Recessed wiring for 5 / 6 amp socket outlet with 6Amp, 250 V clip in type modular switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection on same switch board as per direction of Engineer-in-charge.	Nos.	53	682.04	36,148.12
				-	-
6	Recessed wiring for 5 / 6 amp socket outlet with 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked in 20 mm dia non-metalic PVC conduit with 6Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size , with 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire including all accesories and connection on separate board as per direction of Engineer-in- charge.Group C	Nos.	5	1,674.42	8,372.10
				-	-
7	Recessed wiring for 2 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of	Nos.	35	1,251.98	43,819.30
				-	-
8	Recessed wiring for 6 pin 16 amp socket outlet with 16Amp, 250 V clip in type switch ISI marked mounted on G.I moular box with face plate & cover of suitable size including all accesories and connection as per direction of Engineer-in-charge.	Nos.	20	1,083.24	21,664.80
				-	-
9	Recessed wiring for A.C/ Power socket outlet with industrial type socket outlet, plug top and metal chained cover in sheet steel enclosure ,20A/32A SP MCB including all accesories and connection as per direction of Engineer-in-charge.	Nos.	5	1,293.28	6,466.40
10	Recessed wiring to exhaust fan/Wall Fan point with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor of ISI marked with 20mm dia non-metalic PVC conduit with 6Amp 250V Modular Switch, Base & Cover with 1.5sqmm FRLSH PVC insulated single core multistrand copper conductor for running earth including all accessories & connection as per direction of Engineer in charge.Group C	Nos.	22	1,497.42	32,943.24
11	Call bell point	Nos.	3	1,689.76	5,069.28

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA ,					
INTERNAL ELECTRICAL WORK FOR SCHOOL BUILDING					
Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
12	Recessed wiring for 3 x 6 amp socket outlet controlled by 2 nos 6Amp, 250 V clip in type switch ISI marked mounted on single G.I moular box with face plate & cover of suitable size including all accesories and connection on separate board as per direction of Engineer-in-charge.	Nos.	1	1,405.38	1,405.38
				-	-
	SUB TOTAL			-	-
	SUBMAIN			-	-
13	Recessed wiring to submain in 4 x 10 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	75	579.38	43,453.50
				-	-
14	Recessed wiring to submain in 4 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 32 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	395.30	59,295.00
				-	-
15	Recessed wiring to submain in 2 x 6 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 25 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	20	280.84	5,616.80
				-	-
16	Recessed wiring to submain in 2 x 4 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	750	240.72	1,80,540.00
				-	-
17	Recessed wiring to submain in 2 x 2.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	1850	219.48	4,06,038.00
				-	-
18	Recessed wiring to submain in 2 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor of ISI marked confirming to IS 694/1990 in 20 mm dia non-metalic heavy duty PVC conduit 1.6 mm thick along with 1 x 1.5 sq.mm FRLSH PVC insulated single core multistrand copper conductor as earth wire as equired.	Mtrs	150	202.96	30,444.00
				-	-
	SUB TOTAL			-	-
19	DB			-	-
	Supply and fixing of following way three pole and neutral, sheet steel, MCB distribution, 415 V on surface / recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, hinged front acrylic cover for the MCB knobs detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required wih necessary MCB , RCCB / ISOLATORS as required.Note for MCB- There should be colour indication for tripping On ,Off & Trip/There should be mid trip position for toggles for electrical fault conditions.			-	-
a)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For PDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below.Incommer 1 No-63A FP MCB (10KA) Outgoings-10/20A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
b)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For LDB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below.Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
c)	Supply, fixing, erecting, connecting and commissioning of indoor type dust and vermin proof, sheet steel clad ready made, double door horizontal type powder coated wall mounted 4 way TPN Distribution Boards For UPS DB suitable for 440 V, three phase, 4 wire 50 Hz AC Supply complete with bottom detachable plate for interconnections etc as below.Incommer 1 No-40A FP MCB (10KA) Outgoings-10A SP MCB 10KA-12Nos.	Nos.	3	16,688.74	50,066.22
	CABLE			-	-
20	Supply & Laying of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of 3.5core 150 sq.mm direct in ground including excavation , sand cushining protective covering and refilling the trench etc. as required.	Rmt	200	2,289.20	4,57,840.00

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA ,					
INTERNAL ELECTRICAL WORK FOR SCHOOL BUILDING					
Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
21	Supply & Laying of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of 3.5core 95 sq.mm direct in ground including excavation , sand cushioning protective covering and refilling the trench etc. as required.	Rmt	50	1,616.60	80,830.00
22	Supply & Laying of one number of PVC insulated and PVC seathed / XLPE power cable of 1.1 KV grade of 4 core 16 sq.mm Aluminium on surface as required.	Rmt	20	634.84	12,696.80
	SUB TOTAL			-	-
				-	-
	END TERMINATION			-	-
	Supplying and making end termination with brass compression gland and aluminum lugs for following size of PVC insulated and PVC sheathed / XLPE aluminum cable of 1.1 KV as required.			-	-
23	3.5C x 150 sq.mm	set	2	1,239.00	2,478.00
24	3.5C x 95 sq.mm	set	2	1,121.00	2,242.00
25	4C x 16 sq.mm	set	2	649.00	1,298.00
	SUB TOTAL			-	-
				-	-
	PANEL			-	-
	Supply, installation,testing & commissioning of floor mounting front operated front access extensible type cubicle panel totally enclosed,dust and vermin proof with IP-42 /55 protection with hinged and lockable doors.CRCA sheets including interconnections,tinned copper crimping lugs, bonding to earth and painting suitable for use at 415 V, 3phase 4 wire 50 Hz system, and to withstand a fault level of 35 KA symmetrical for 1 sec at 415 V complete as per specifications, as required and as below : All switchboards shall have provision for entry of cables from the bottom as required. All live accessible parts shall be shrouded and all equipment shall be finger touch proof. The bus bars shall be insulated with heat shrinkable sleeves.SMC/DMC shrouds and busbar supports shall be used with Indication lamp, C.T , Digital Voltmeter, Digital Ammeter and control fuse etc. complete.			-	-
26	MAIN PANEL with 150A 4P MCCB 36KA -1 No as incomer, 63A 4P MCB 10KA 4Nos,100A 4P Change over Switch 1Nos, 40A 4P MCB 10KA.-9Nos, 32A DP MCB 10KA-3Nos with E.C Busbars with 4nos 65KA VSD along with 4nos 32A SP MCB	set	1	1,91,504.56	1,91,504.56
	EARTHING			-	-
27	Earthing with copper earth plate 600 mm x 600mm x 3.15 mm thick ISI marked including accessories and providing masonry with cover plate having locking arrangement and watering pipe etc with charcoal and salt as required.	Set	4	16,233.26	64,933.04
28	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	Rmt	15	860.22	12,903.30
29	Supplying and laying 25 mm x 6 mm CU earth strip ISI marked on surface or in recess for connection etc as required.	Rmt	50	923.94	46,197.00
30	Providing and fixing 8 SWG CU wire on surface or in recess for loop earthing as required.	Rmt	50	105.02	5,251.00
	FIXTURE			-	-
	Supply, Installation, Testing and Commissioning of pre-wired fluorescent fitting / compact fluorescent fitting /LED fitting of all sizes complete with all accessories and lamp etc. directly on ceiling /wall or recessed in false ceiling , including connection with 1.5 sq.mm FR PVC insulated single core multistrand copper conductor and earthing as required.			-	-
31	Ceiling mounted indoor type batten type LED Luminaire with LED Lamp	Nos	130	554.60	72,098.00
32	Ceiling/ Wall mounted type BULK HEAD Luminaire	Nos	10	1,267.32	12,673.20
33	Supply, Installation, testing and commissioning of 10W Mirror Light	Nos	15	364.62	5,469.30
34	Supply, Installation, Testing and Commissioning of ceiling fan 1200mm sweep, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FR PVC insulated single core multistrand copper	Nos	65	4,659.82	3,02,888.30
35	Supply, Installation, testing and commissioning of exhaust fan of 250 mm PLASTIC Exhaust Fan (Vntilation Fan) complete, connection, etc as required.250MM CRISP AIR EXH FAN.	Nos	17	2,109.84	35,867.28
36	Supply & fixing of 18W LED Down Light (S/R) with all accessories.	Nos	50	1,250.80	62,540.00
37	Supply & fixing of LED 36w 2'x2' Surface/Recessed Mounted Light as required.	Nos	15	2,269.14	34,037.10
38	Supply & fixing of 6W LED Down Light (S/R) with all accessories.	Nos	10	636.02	6,360.20
39	Supply, Installation, testing and commissioning of wall fan of 400 mm sweep as required.Model-400mm STRIKER HI SPEED.	Nos	5	3,645.02	18,225.10
	SUB TOTAL			-	-
	PERFORATED CABLE TRAY			-	-
	Supply and installation of Pregalvanised Perforated type cable trays without cover. The rate shall include bends, Tees, all supporting brackets, anchor fasteners, screws, bolts, nuts etc., including painting of cable trays. Thickness of sheet steel shall be 2 mm. Support sizes			-	-

CONSTRUCTION OF GODABARISH MISHRA ADARSH PRATHAMIK VIDYALAYA AT UGHS HIAL, TUREKELA ,					
INTERNAL ELECTRICAL WORK FOR SCHOOL BUILDING					
Sl. No	DESCRIPTION OF ITEMS	UNIT	QUANTIT Y	RATE	AMOUNT Rs.
40	Size of Cable Tray :300 mm x 50 mm	Rmtr	10	916.86	9,168.60
41	Size of Cable Tray :150 mm x 50 mm	Rmtr	40	712.72	28,508.80
	TV /TEL & DATA			-	-
42	Supplying and fixing of clip in type modular Telephone socket ISI marked mounted on G.I modular box with face plate & cover of suitable size ,including all accesories and connection as per direction of Engineer in Charge.	Nos	10	450.76	4,507.60
43	Supplying and fixing of clip in type modular T.V. antenna socket ISI marked on mounted on G.I modular box with face plate & cover of suitable size , including all accesories and connection as per direction of Engineer in Charge.	Nos	10	462.56	4,625.60
44	Supplying and drawing 4 pair, 0.5 sq.mm FR PVC insulated coper conductor, unarmoured telephone cable in existing surface / recessed PVC conduit as required.	Rmt	250	53.10	13,275.00
45	Recessed wiring to television point with cable RG-6 grade, 0.7 mm solid copper conductor PE insulated shielded with fine tined copper braid and protected with FR PVC sheath in in existing surface / recessed PVC conduit as required as per direction of Engineer in Charge.	Rmt	150	47.20	7,080.00
46	Supplying and fixing of following sizes PVC conduit along with accessories in recessed wiring including cutting the wall and making good the same in case of recessed conduit as required.			-	-
	20mm	Rmt	250	121.54	30,385.00
47	Supplying and fixing of 16 / 18 SWG metal box of 200 mm x 150 mm x 60 mm deep on surface / recess with suitable size of phenolic laminated sheet cover in front including cutting the wall and making good the same in case of recessed conduit as required. (Tel junction Box)	Nos	1	212.40	212.40
48	Supplying & Commissioning of Telephone Hand Set.	Nos	10	866.12	8,661.20
49	Supplying & installation of 100 pair KRONE make moudles with locking & key arrangements fabricated with MS sheet & powder coated to be fixed on concealed manner incl. good the damages.	set	1	2,950.00	2,950.00
50	SITC of 4 pair Cat6 23 awg U/UTP LSZH Cable in the existing surface/ recessed steel/ PVC conduit as required: The 4 pair Unshielded Twisted Pair cable shall be UL Listed,exceeds the requirements of ANSI/TIA-568-C.2 and ISO/IEC 11801 Class E , 4 twisted pairs separated by internal PE Cross Separator. Full separator. Half shall not be accepted. Rip Cord is must,Insertion Loss of 32.8 db/100m at 250 MHz ,Cable should support operating temperature from -20° to +70°C Cable support Conductor Resistance ≤ 9.38 Ω/100m Max., Cable support Delay Skew: < 45 ns/100m, Operating Voltage: 72V , Impedance: 100 ± 15 Ω @100 MHz. and Propagation Delay @250 MHz	Mtr	750	97.94	73,455.00
51	Supply & fixing of RJ-45Jack of Category 6 with Dual-port British-style Face plate 86x86 mm with Curveture and wall mount box.	Nos	20	1,117.46	22,349.20
	TOTAL INTERNAL ELECTRICAL WORK=				30,68,503.86