

A	Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha			
Sl.No	DESCRIPTION OF ITEMS	AMOUNT (Rs)		
		SCHEDULED	NON SCHEDULED	SCHEDULE + NON SCHEDULE
1	CIVIL WORK	41671151.95	63,15,492.26	4,79,86,644.21
2	ELECTRICAL WORK		41,57,096.34	41,57,096.34
3	FIRE FIGHTING WORK		20,41,999.44	20,41,999.44
4	PH WORK	2763139.31	18,48,840.18	46,11,979.49
	GRAND Total	4,44,34,291.26	1,43,63,428.22	5,87,97,719.48

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Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
B		CIVIL WORK						
1	OSR AR 2006 Item No. - 3 SR 2022	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, up to a lead of 1000 metres including removal and disposal of top organic soil not exceeding 150 mm in thickness..	Sqm	1000.00	10.19		10,189.82	
2	OSR AR 2006 item no 1a SR 2022	Earth work in excavation IN ALL TYPES OF SOILS by manual means overareas (exceeding 30 cm in depth, 1.5 m in width as well as 10sqm on plan) including disposal of excavated earth up to 50 m and lift upto 1.5m with all lead and lift including shoring, shuttering & dewatering (if required) with cost of all Labour, Labour cess ,Hire & Running charges of the water pumps, Sundries, T & P required for the work complete as directed by the Engineer- in- charge.	Cum	559.79	367.57		2,05,762.01	
3	OSR AR 2006 item no 15 SR 2022	Supplying & Filling foundation trenches , plinth & ditches with clean course river sand well watered and rammed in layers not exceeding 23 c.m. in depth with all lead and lift including cost, conveyance, loading, unloading, stacking,royalties and all taxes of sand,cost & conveyance of water, cost of all Labour,labour cess,T&P required for the work etc. complete in all respect as directed by the Engineer- in- charge.	cum	532.69	597.20		3,18,121.40	
4	OSR AR 2006 item no 3 SR 2022	Providing and laying plain cement concrete of (1:3:6) in foundation and floors using 40mm. size black hard crusher broken granite stone metal and screened and washed sharp sand for mortar of approved quality and from approved quarry including hoisting, lowering, laying concrete, ramming, watering and curing etc. complete including cost, conveyance, royalties and cost of all labours,labour cess, T&P etc complete as per specification & direction of the Engineer-in-charge.	cum	211.15	6722.70		14,19,497.26	
5	OSR AR 2006 item no 14 SR 2022	Back filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m. etc. complete in all respect as directed by the Engineer-in-charge.	cum	167.94	204.26		34,302.48	
6	OSR AR 2006 Pg no-163 SR 2022	Disposal of surplus excavated materials by mechanical means from the work side etc. complete. upto 5km. Lead	cum	442.23	328.95		1,45,470.94	
7	NSR	Providing & applying of pre constructional anti-termite treatment by (A)Chemicals The chemical used for the soil treatment shall be of the following with the concentration shown is aqueous emulsion. Imidachloprid 30.5% SC, Doses: 2.1 ml per lit of water (B) Method of Treatment 1.Treatment of Top Surface of Plinth Filling 2.Treatment at Junction of the wall and the floor 3.Treatment of Soil Along External Perimeter of Building 4. Treatment of Soil Surrounding Pipes, Waste and Conduits	sqm	932.00		191.92		1,78,864.97
8	OSR AR 2006 Concrete Item no. - 5 or Centering and Shuttering item no-10 SR 2022	R.C.C. work of M-25 grade with 20mm and down grade black hard black crusher broken granite stone chips of approved quality from approved quarry including hoisting, lowering, laying and compacting concrete, watering curing, centering, shuttering and finishing the exposed surfaces smooth with cost, conveyance, royalties, taxes of all materials with all labour,labour cess and T & P required for the work etc. complete in all respect but excluding the cost and conveyance of M.S. rods or Tor steel and binding wire of 18 to 20 gauge and labour charges for straightening, cutting, bending, binding and tying the grills and placing in proper position and as per spection and the direction of the Engineer-in-charge.						
9		Foundation & Plinth						
10		Footing & Pedestal	cum	140.24	7666.46		10,75,175.02	
11		Plinth Beam	cum	65.39	8698.25		5,68,787.53	
12		Wall	cum	2.02	11762.48		23,701.39	
13		Column	cum	8.60	7666.46		65,931.57	
14		Ground floor						
15		Column	cum	28.36	18738.28		5,31,417.71	
16		Roof Beam	cum	52.11	18738.28		9,76,451.98	
17		Roof Slab	cum	131.86	16300.76		21,49,418.08	
18		Stair acse	cum	13.10	18575.56		2,43,339.89	
19		Lintel	cum	13.95	16768.63		2,33,922.37	
20		Sill	cum	8.70	16768.63		1,45,887.07	
21		First floor						
22		Column	cum	26.51	21188.32		5,61,702.34	
23		Roof Beam	cum	57.62	21188.32		12,20,870.94	
24		Roof Slab	cum	127.67	18263.33		23,31,679.60	
25		Stair acse	cum	13.10	20993.14		2,75,010.19	
26		Lintel	cum	19.19	18824.89		3,61,249.72	
27		Sill	cum	9.50	18824.89		1,78,836.49	
28		Terrace floor						
29		Column	Cum	12.96	24121.09		3,12,609.30	
30		Roof Beam	cum	7.32	24121.09		1,76,566.36	
31		Roof Slab	cum	11.28	20611.06		2,32,461.84	
32		Lintel	cum	2.86	21284.84		60,869.32	
33		Sill	cum	1.21	21284.84		25,775.94	
34		Chajja	sqm	2.70	1927.88		5,205.29	
35	OSR AR 2006 item no-9 SR 2022	Supplying Cutting, straightening coiled or bent up M.S. Rod or tor steel of primary steel producers (grade Fe-5000). including bending, binding, welding and jointing if necessary and tying the grills and placing in position as required for R.C.C. Work and for providing fan hooks as required, hoisting, lowering, laying including cost, conveyances of M.S. Rod or tor steel and binding wires of 18 to 20 gauge and labour required for the work for bending, binding and tying the grills in all floors with labour cess etc. (payment will be made on standard weight of B.I.S. for M.S. Rods or tor steel only) etc. complete as per specification & direction of Engineer-in-charge.						
36		Foundation	Qntl	292.75	10488.31		30,70,453.34	
37		Ground floor	Qntl	435.78	10488.31		45,70,596.60	
38		First floor	Cum	452.44	10528.55		47,63,537.16	
39		Terrace floor	Qntl	74.13	10570.79		7,83,612.96	
40	OSR AR 2006 item no-3 SR 2022	Fly Ash brick masonry in cement mortar (1:6) in Foundation & Plinth using Fly Ash bricks of 25 x 12 x 8 cm size having a crushing strength of not less than 75 kg./sqcm with dimensional tolerance ± 2% including plays cutting circular moulding chamfering and corbelling and similar such type of works with all necessary projections watering and curing after immersing the bricks in water at least for six hours before use including cost, conveyance, royalties with all labour,labour cess and T & P required for the work complete in all respect as per specification and direction of Engineer-in-charge.						
41		Foundation	cum	35.08	7021.00		2,46,296.68	

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					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
42	OSR AR 2006 Item no-3 SR 2022	Fly Ash brick masonry in cement mortar (1:6) in Superstructure using Fly Ash bricks of 25 x 12 x 8 cm size having a crushing strength of not less than 75 kg./sqcm with dimensional tolerance ± 2% including splays cutting circular moulding chamfering and corbelling and similar such type of works with all necessary projections watering and curing after immersing the bricks in water at least for six hours before use including cost, conveyance, royalties with all labour,labour cess and T & P required for the work complete in all respect as per specification and direction of Engineer-in-Charge.					-	
43		Ground floor	cum	184.48	7060.29		13,02,483.04	
44		First floor	cum	278.50	7516.13		20,93,241.65	
45		Terrace floor	cum	63.47	8039.93		5,10,294.36	
46	OSR AR 2006 Item no-14 SR 2022	Providing 16 mm thick cement plaster with cement mortar of mix (1:6) with screened and washed sharp sand for mortar and finished smooth to the rough surface of walls in all heights after racking out joints including watering and curing, rounding of corners, providing grooves where ever necessary with cost, conveyance, royalties, with cost of all labour,labour cess, T&P, and scaffolding required for the work etc. complete in all respect and specification and direction of the Engineer in charge. (Outer side plastering)					-	
47		Ground floor	sqm	644.03	322.97		2,07,999.79	
48		First floor	sqm	521.33	331.46		1,72,801.08	
49		Terrace floor	sqm	428.19	340.08		1,45,617.14	
50	OSR AR 2006 Item no-4 SR 2022	Providing 12mm. Thick cement plaster in cement mortar or mix(1:6) in all floors at all height with cement & screened and washed sharp river sand for mortar and finished smooth to the rough surface of the brick masonry walls after racking out the joints (alongwith providing grooves wherever necessary)including watering and curing, rounding of corners etc. complete with cost,conveyance,loading, unloading, royalties and taxes of all materials,cost of all labour,T&P and scaffolding required for the work etc. as directed by the Engineer-in-charge.					-	
51		Ground floor	sqm	2237.06	222.55		4,97,853.23	
52		First floor	sqm	2405.02	231.99		5,57,935.78	
53		Terrace floor	sqm	383.77	241.78		92,788.68	
54	OSR AR 2006 Item no-27 SR 2022	Providing 6 mm thick cement plaster with cement mortar of mix (1:4) with screened and washed sharp sand for mortar and finished smooth to R.C.C. work after closed deep chipping & slurry treatment including watering and curing, rounding of corners, providing grooves where ever necessary with cost, conveyance and royalties of all materials with cost of all labour, T&P, and scaffolding required for the work etc. complete in all respect as directed by the Engineer in charge.					-	
55		Ground floor	sqm	785.05	239.19		1,87,772.97	
56		First floor	sqm	755.27	245.32		1,85,284.35	
57		Terrace floor	sqm	45.05	251.69		11,338.81	
58	OSR AR 2006 Item no-1 SR 2022	Priming one coat with water bound wall cement primer.					-	
59		Ground floor					-	
60		Outer Side	sqm	644.03	98.88		63,684.26	
61		Inner site	sqm	3022.11	98.88		2,98,838.33	
62		First floor					-	
63		Outer Side	sqm	521.33	102.90		53,642.77	
64		Inner site	sqm	3160.29	101.36		3,20,333.31	
65		Terrace floor					-	
66		Outer Side	sqm	428.19	107.14		45,877.99	
67		Inner site	sqm	428.82	103.84		44,528.67	
68	OSR AR 2006 Item no-2 SR 2022	Finishing plastered surfaces of walls with cement based wall putty (Water based) of approved make and finishing the surface smooth and even by sand papering to receive painting in walls, at all heights with staging wherever necessary with cost, conveyance, all materials, cost of all labour,labourcess, all T&P etc. required for the work complete in all respect as per the direction of the Engineer-in-charge.					-	
69		Ground floor	sqm	3022.11	101.95		3,08,110.16	
70		First floor	sqm	3160.29	103.13		3,25,927.03	
71		Terrace floor	sqm	428.82	104.19		44,680.47	
72	OSR AR 2006 Item no-20 SR 2022	Painting two coats with plastic emulsion paint with a approved quality primer to make an even finished surface in all floors and heights to wall surface of approved make and shade including sand papering, applying putty wherever necessary & cost of scaffolding, staging charges with cost, conveyance, cost of all labour,labour cess, T&P etc. complete as per the direction of the Engineer-in-charge.					-	
73		Ground floor	sqm	3022.11	130.15		3,93,339.70	
74		First floor	sqm	3160.29	132.75		4,19,528.50	
75		Terrace floor	sqm	428.82	135.46		58,089.67	
76	OSR AR 2006 Item no-20 SR 2022	Wall painting two coats with Weather coat paint (1st quality) exterior grade of approved make & with a approved quality primer to make an even finished surface in all floors and heights with all scaffolding and staging charges including cost, conveyance, cost of all labours, T & P, sundries etc. as required for the work complete in all respect as per the direction of the Engineer-in-Charge.					-	
77		Ground floor	sqm	599.08	120.83		72,388.03	
78		First floor	sqm	521.33	125.20		65,269.47	
79		Terrace floor	sqm	428.19	129.80		55,579.06	
80	OSR AR 2012 Item no- 1(B) SR 2022	Providing vitrified tile flooring using vitrified tiles having thickness of 8mm to 10mm conforming to IS 13755 of 600mmx600mm (coloured/printed) of premium quality in floors, treads on steps and landings on 20mm thick bed of cement mortar of mix (1:4) laid in proper slope and gradient with screened and washed sharp sand for mortar and fixing with neat white cement slurry,grouting the joints with neat white cement slurry mixed with required quantities of pigments of approved make to match the shades of the vitrified tile if required , watering and curing for 21 days, including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour,Labour cess , sundries, T&P required for the work, complete in all respect as per specification and direction of Engineer-in-charge.					-	
81		Ground Floor	sqm	369.92	1720.68		6,36,516.77	
82		First floor	sqm	528.95	1736.96		9,18,756.31	
83	OSR AR 2006 Item no- 17 SR 2022	Providing vitrified tile in dado/ skirting using vitrified tiles having thickness of 8mm to 10mm conforming to IS 13755 of 600mmx600mm, (coloured/printed) in dado/ skirting,riser of steps,wall on on 12mm thick bed of cement mortar of mix (1:3) laid in proper slope and gradient with screened and washed sharp sand for mortar and fixing with neat white cement slurry,grouting the joints with neat white cement slurry mixed with required quantities of pigments of approved make to match the shadesof the vitrified tile if required watering and curing for 21 days, including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, Labour cess ,sundries, T&P required for the work, complete in all respect as per specification and direction of Engineer-in-charge.					-	
84		Ground Floor	sqm	52.74	1821.57		96,063.93	

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85		First floor	sqm	71.77	1845.87		1,32,482.07	
86	OSR AR 2012 item no- 1(B) SR 2022	Providing Granite stone matt finished 20mm thick of area above 0.40 Sqm in flooring of approved quality, colour and size in floors, treads on steps and landings in all floors at all height on 20mm thick bed of cement mortar of mix (1:4) laid in proper slope and gradient with screened and washed sharp sand for mortar and fixing with neat white cement slurry,grouting the joints with neat white cement slurry mixed with required quantities of pigments of approved make to match the shades of the granite tile if required watering and curing for 21 days, including edge moulding at required places including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, Labour cess ,sundries, T&P required for the work etc. complete in all respect as per specification and direction of Engineer-in-charge.					-	
87		Ground floor	sqm	110.61	3643.72		4,03,032.09	
88		First floor	sqm	41.48	3659.89		1,51,812.15	
89	OSR AR 2006 item no- 17 SR 2022	Providing Mat finished Granite stone prepolished 10mm thick of area above 0.40 Sqm in dado/skirting,riser of steps of approved quality, colour and size in dado/ skirting,riser of steps,wall on 12mm thick bed of cement mortar of mix (1:3) and laid in proper plumb and line with screened and washed sharp sand for mortar and fixing with neat white cement slurry,grouting the joints with neat white cement slurry mixed with required quantities of pigments of approved make to match the shades of the granite tile if required watering and curing for 21 days, including cost, conveyance, loading, unloading, royalties and taxes of all materials, cost of all labour, Labour cess ,sundries, T&P required for the work etc. complete in all respect as per specification and direction of Engineer-in-charge.					-	
90		Ground floor	sqm	35.59	3805.74		1,35,442.34	
91		First floor	sqm	18.71	3830.16		71,666.16	
92	OSR AR 2012 item no- 1(B) SR 2022	Providing 16mm. thick finished kota stone flooring using kota stone of approved quality, colour and size above 0.10 sqm in floors, treads on steps and landing on 20mm. thick bed of cement mortar mix of (1:4) with screened and washed sharp river sand for mortar and cement of approved quality, grouted with neat white cement slurry laid in proper slope joining the Kota stone with neat white cement slurry mixed with required quantity of pigment of approved marks to match the shades of the kota stone to kota colour if required, watering and curing for the required period , including cost, conveyance, loading, unloading, royalties, and taxes of all materials, cost of all labour, sundries, T&P required for the work including cost of rubbing mechanically and wax polishing etc complete in all floors at all height in all respect as directed by the Engineer-in-charge.					-	
93		Ground floor	sqm	295.16	1846.23		5,44,932.66	
94	OSR AR 2006 item no- 17 SR 2022	Providing 16mm. thick finished kota stone in dado/skirting using kota stone slab above 0.10 sqm of approved quality, colour and size in dado, risers of steps on 12mm. thick bed of cement mortar mix of (1:3) with screened and washed sharp river sand for mortar and cement of approved quality, grouted with neat white cement slurry laid in proper slope mixed with required quantity of pigment of approved marks to match the shades of the kota tiles to kota colour if required, watering and curing for thr required period, including cost, conveyance, loading, unloading, royalties, and taxes of all materials, cost of all labour, sundries, T&P required for the work including rubbing mechanically and wax polishing etc. in all floors at all height complete in all respect as directed by the Engineer-in-charge.					-	
95		Ground floor	sqm	43.85	2158.46		94,648.30	
96	OSR AR 2012 item no- 1(B) SR 2022	Supplying, fitting and fixing of Antiskid Ceramic Floor Tiles in flooring using special plain / printed series Ceramic Floor Tile of premium grade (having minimum thickness 7 mm to 8 mm & size 300 mm x 300 mm, confirming to I.S 13755 of approved quality and shade in floors, treads on steps and landings on 20 m.m thick bed of cement mortar of mix (1:4) and Spacer Bar of 3mm laid in proper slope and gradient with screened & washed sharp river sand for mortar and fixing with neat white cement slurry,grouting the joints with neat white cement slurry mixed with required quantities of pigments (Tiles are to be immersed in the water for required time before use) of approved make to match the shades of the Ceramic Floor Tiles if required including cost, conveyance, loading, unloading, stacking, royalties , all taxes,rubbing, cost of all Labour, Labour cess ,Sundries, T&P required for the work , Watering , Curing for required days , cleaning the flooring space manually etc. complete in all respect as directed by the Engineer-in-charge.					-	
97		Ground floor	sqm	62.63	1384.02		86,677.15	
98		First floor	sqm	118.36	1400.19		1,65,726.25	
99	OSR AR 2006 item no- 17 SR 2022	Supplying, fitting & fixing of 400 x 400 mm special plain/printed series Ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm confirming to IS 13753 laid on 10 mm thick cement mortar (1:3) Spacer Bar of 3mm (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.					-	
100		Ground floor	sqm	206.09	1484.56		3,05,958.50	
101		First floor	sqm	266.28	1508.87		4,01,780.84	
102	OSR AR 2012 item no- 1(B) SR 2022	Supplying, fitting & fixing of Industrial vitrified tiles (30x30)cm in floors of approved laid on 20 mm thick cement mortar (1:4) (1 cement : 4 course sand) and filling joints with slurry including cost of all materials, labour T&P etc required for the work all complete as per direction of the Engineer-in-charge .					-	
103		Ground floor	sqm	67.07	1544.38		1,03,580.91	
104	NSR	Factory made Solid WPC door frame of size 95mmx55mm fabricated .The door frame consist of four segments which are provided with plug-in-socket arrangement in-situ in the mould. The segments are plugged in and are joined together by means of screw. The WPC frame shall be provided with The material and process for manufacturing the door frames shall conform to Relavent I.S.specification. The finish of door frame will be plain colour white/ Ivory/ Beige/ Light grey/ Golden brown/Mahogany/ Teak wood/sand stone/Champagne/Pastel blue or any other colour using high quality pigments complete in all respect as per specification and direction of the Engineer in charge.					-	
105		Ground floor	Rmt	25.50		1,314.87		33,529.29
106		First floor	Rmt	101.80		1,314.87		1,33,854.17
107		Terrace floor	Rmt	2.40		1,314.87		3,155.70
108	NSR	Supplying, fitting and fixing of 32mm thick flush door shutter with approved quality of 30mm thick BWR block board pasted with 1mm thick sunmica on both side of approved design and quality including cost of all door fittings and fixtures etc. complete in all respect as per the direction of the Engineer-in-Charge.					-	
109		Ground floor	Sqm	53.55		12,588.24		6,74,100.25
110		First floor	Sqm	46.20		12,588.24		5,81,576.69
111		Terrace floor	Sqm	5.04		12,588.24		63,444.73

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112	NSR	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.				-	-	
113		Ground floor	Sqm	22.05		3,574.63		78,820.54
114		First floor	Sqm	40.95		3,574.63		1,46,381.01
115	NSR	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.				-	-	
116		Ground Floor	Rmt	69.30		711.47		49,304.59
117		First floor	Rmt	128.70		711.47		91,565.66
118	NSR	Aluminium hanging floor door stopper with twin rubber & stopper					-	
119		Ground Floor	Each	28.00		79.64	-	2,229.92
120		First floor	Each	30.00		79.64		2,389.20
120	NSR	System Aluminum Sliding Windows - Single Glazed (With MESH): Providing and fixing System Aluminum works for Sliding windows with 50mm & 35mm visible aluminum section width in the center mullion. The extruded aluminums sections should be made from Grade 6063-T5 & Anodized with Tex guard coating, silicon coated to suit marine atmosphere. All profiles should be None insulated Profiles. Corner connection will be Butt joint with Screw using Nano gaskets for sealing. All other major Accessories should also be made by the same manufacture. All Slider windows will be center locking. Integrated Anti-lift in slider panel, EPDM gaskets should be used in slider windows in all meeting points instead of Brush Pile. Frame width shall be 72 mm for 3 track (2 Glazed panels and 1 Mesh panel track provision) with +/- 2mm maximum tolerance. Provision of mesh track must be inbuilt in the offered system. All materials which are used should be corrosion-resistant so that they are good functioning in different environments and that there are no negative influences either on the aluminum or on the surface treatment. The system should allow the application of glazing or panels with thickness up to 8mm. The external perimeter of aluminum sections should be Anodized with Tex guard coating, the system should qualify Airtightness ASTM E283: 10.7m3/h.m2 at 75Pa of pressure, Water tightness ASTM E300: 240 Pa, Wind load resistance ASTM E330: 2400 Pa. System should have on properties, functionality and design, within restrictions defined by technical specifications of anodizing wearing parts only applies to normal and realistically foreseeable use. All Slider windows will be center locking.				-	-	
121		Ground Floor	sqm	45.36		22,125.00		10,03,590.00
122		First floor	sqm	48.60		22,125.00		10,75,275.00
123		Terrace floor	sqm	3.24		22,125.00		71,685.00
124	NSR	System Aluminum fixed cum louvoured ventilators - Single Glazed Providing and fixing System Aluminum fixed cum louvoured ventilators - Single Glazed with 50mm & 35mm visible aluminum section width in the center mullion. The extruded aluminums sections should be made from Grade 6063-T5 & Anodized with Tex guard coating, silicon coated to suit marine atmosphere. All profiles should be None insulated Profiles. Corner connection will be Butt joint with Screw using Nano gaskets for sealing. All other major Accessories should also be made by the same manufacture. in all meeting points instead of Brush Pile. All materials which are used should be corrosion-resistant so that they are good functioning in different environments and that there are no negative influences either on the aluminum or on the surface treatment. The system should allow the application of frosted glazing or panels with thickness up to 8mm. Part will be fixed, part will be louvred. The external perimeter of aluminum sections should be Anodized with Tex guard coating, the system should qualify Airtightness ASTM E283: 10.7m3/h.m2 at 75Pa of pressure, Water tightness ASTM E300: 240 Pa, Wind load resistance ASTM E330: 2400 Pa. System should have on properties, functionality and design, within restrictions defined by technical specifications of anodizing on wearing parts only applies to normal and realistically foreseeable use. All Slider windows will be center locking .				-	-	
125		Ground Floor	sqm	10.08		6,678.80		67,322.30
126		First floor	sqm	10.80		6,678.80		72,131.04
127	NSR	Toilet /Sunken Providing and applying Single component synthetic rubber, AquaArm Saniflex based coating with a coverage of 1.2 kg /m2 over primer surface with AquaArm Uniprime GE .The coating shall be taken upto 300mm from finished floor level on the vertical walls. The coating shall have an elongation of a minimum of 80% when tested as per ASTM D 412 and tensile strength of 1 N/mm2. Thorough surface preparation by mechanical means to level and plain the surface of walls and floors of the toilet areas. All cracks and crevices to be filled and made good to receive waterproofing coating treatment The coating shall cover all the floor area of the wet area (toilet) and be applied over on to the vertical walls minimum 300mm height above the floor in two or more coats to achieve required thickness. Protective Plaster: Providing and laying avg. 15 mm thick, CM 1:4 plaster admixed with , Integral Waterproofing Compound @ 200 ml / bag of cement. (cement and sand shall be supplied by the main contractor Pipes being fixed for plumbing shall be fixed in holes which are mechanically core cut, more than the dia of the pipes. Pipes shall be fixed by grouting the annular space with non-shrink cementitious grout of proprietary . Before grouting the pipes shall be wrapped with a waterproofing fleece material at least 50 mm wide and then grouted to fill in the grout, ensuring total watertight plumbing fittings. Contractor shall submit methodology statement with all detail in illustrative sketch form and get approved from Engineer in charge. Application shall be carried out by approved applicator of manufacture and as per recommended by manufacturer. Actual applied area (plan area + wall area) of toilet/ sunken shall be measured for payment. Cost includes all material				-	-	
128		Ground Floor	sqm	62.63		764.64		47,889.40
129		First floor	sqm	118.36		764.64		90,502.79

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
130	NSR	TERRACE WATERPROOFING Surface Preparation: Mechanically grinding the surface to remove the bitumen primer from the surface including sealing of cracks if any with epoxy putty/ SBR Latex. Treatment of Pipe Penetration: Providing and sealing the gaps in the core cuts around PVC pipes treated with epoxy bonding agent & sprinkled sand; using Armgrout M 65 non shrink grout followed by sealing of the same joint by using 2 coats of waterproofing coating & SealArm Joint Tape. Coving: Providing and making coving 50mm*50mm at the junction of slab and vertical offsets with Cement Mortar 1:3 and admixed with ReArm SBR 45 at dosage of 1ltr per 50kg cement. (cement and sand shall be in the scope client) Application of Primer: Apply Epoxy based primer AquaArm Primer PUDC over well prepared surface at 250-300 gm/Sq.Mtr. Waterproofing Coating: Providing and applying single component moisture cured waterproofing coating to sound, moisture free concrete surface with AquaArm SPU SPL. Application of waterproofing coating @ recommended consumption of 1.5 kg/sqm for total average system thickness of 1 mm in two coats using Roller, all complete as per manufacturer's methodology. Membrane Termination shall be done at 300 mm above FFL or as per site conditions using 8mm * 8mm groove and filling with PU sealant,. Payment shall be made as per actual area of measurement. For vertical exposed areas, where plastering is to be done, sand shall be sprinkled over the tacky final coat of sealer coat on vertical surface. Later after final curing, plastering should be done. The membrane formed shall confirm to following minimum properties:				-		
131		Terrace floor	sqm	932.00		1,239.00		11,54,748.00
132	OSR AR 2006 SR 2022	Supplying and Fixing of M.S. Window Grill made out of M.S Flat conforming to IS 2062/2006 painted with Red Oxide Primer as per the design approve by E.I.C including cost,conveyance of all materials,priming,and labour for fitting fixing etc.complete as per the instruction of Engineer-in-Charge				-		
133		Ground Floor	kg	1663.20	94.23	-	1,56,731.32	
134		First floor	kg	1839.60	94.23	-	1,73,354.34	
135		Terrace floor	kg	334.80	94.23	-	31,549.81	
136	OSR AR 2006 item-3 SR 2022	Painting two coat with approved synthetic enamel paint to new wood & iron work including cost, conveyances, royalties of all materials and cost of all labour with T&P required for the work etc. complete as per specification & direction of Engineer in charge.				-		
137		Ground Floor	sqm	34.02	226.32	-	7,699.54	
138		First floor	sqm	35.61	231.99	-	8,261.09	
139		Terrace floor	sqm	1.62	237.89	-	385.38	
140	OSR AR 2012 item-11 SR 2022	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm x 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, cost of all labour,labour cess, T&P etc. required for the work complete in all respect as per direction of the Engineer-in-charge.				-		
141		Ground Floor	kg	1197.01	361.20	-	4,32,357.62	
142		First floor	kg	650.06	361.20	-	2,34,800.37	
143	NSR	Expansion joint Treatment Surface Preparation: The area to be treated should be cleaned thoroughly with mechanical means especially for structure. For new surfaces grinding, vacuum cleaning will be sufficient and it should be ensured that the substrate is clean fine pored and free from any loose particles, dust laitance, mould release agents & curing compounds etc. Use suitable methods to prepare the substrate dependent on its condition such as brushing, grinding milling, shot-blasting and water jetting. Providing and applying High performance Expansion joint Sealing system,600mm x 250mm as per roll size of SealArm Tape TPE and fixing it with Epoxy adhesive ReArm Bond 4031, allows irregular and high movement in more than one direction, whilst maintaining a high quality seal, mixing by mechanical means of ReArm Bond 4031, Applying on both sides of the joint and Fixing of tape over joint as per suitable mentioned width of the tape, and complete work as per manufacturer's specification. The tape should be not fixed at the junction to allow free movement. The termination of the membrane on the parapet wall shall be done with epoxy adhesive as same on the horizontal slab. The Parameters for Treatment are as follows: Shore A Hardness Approx. : 87 Tear Resistance-length wise(DIN EN 12311-2 Method B): >12.5 N / m Elongation at break (DIN EN 12311-2 Method B): >500% Tearing Resistance(nail shank) length wise (DIN EN 12310 -1): >200N Water vapour permeability (DIN EN 1931 Method B): >40 m.				-		
144		Ground Floor	sqm	117.48		2,950.00		3,46,566.00
145		First floor	sqm	117.48		2,950.00		3,46,566.00
146	OSR AR 2006 item no-17 SR 2022	2.5 cm thick grading concrete (1:2:2) on roof slab with 6mm size HG chips including all cost, conveyance, royalty & taxes etc.comp.to work site for new work as per the specification approved by the department & direction of E.I.C				-		
147		Terrace floor	sqm	932.00	554.72	-	5,16,997.18	
148		ELECTRICAL WORK			-	-		
149	NSR	Recessed wiring to light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor of ISI marked of Approved Make with 20 mm dia HMS FRLS PVC conduit ISI marked of Approved Make 6A modular type (anti bacterial & flame retardant type) switch ISI marked Approved Make and ceiling rose ISI marked of modular type G.I box with metallic cover plate (both side) (anti bacterial & flame retardant type) Approved Make of suitable size, modular box with 1.5 sq. Mm FRLS PVC insulated single core multistandard copper conductor as earth wire including all accessories and connection as per direction of Engineer -in -Charge.				-		
150		GROUP-A	Nos	50.00		732.78		36,639.00
151		GROUP-B	Nos	120.00		1,090.32		1,30,838.40
152		GROUP-C	Nos	250.00		1,544.62		3,86,155.00
153	NSR	Supplying,fixing of 6A Plug on the same board in existing switch board with complete fitting by 01 no of 6A switch & socket (modular type & other required accessories of ISI marked as approved as per direction of Engg. -in - Charge.	Nos	10.00		231.28	-	2312.8
154	NSR	Supplying,fixing of 6A Plug on the separate board with complete fitting by 01 no of 6A switch & socket(modular type) (anti bacterial & flame retardant type) with suitable size modular box & cover including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.	Nos	29.00		653.72	-	18957.88

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
155	NSR	Supplying,fixing of 1x16A Plug on the separate board with complete fitting by 01 no of 16A switch & socket(modular type) (anti bacterial & flame retardant type) with suitable size modular box & cover including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge.	Nos	47.00		815.38	-	38322.86
156	NSR	Supplying,fixing of 3x6A+1X1 6A Plug on the separate board with complete fitting by 01 no of 16A+3 nos 6A switch & socket(modular type) (anti bacterial & flame retardant type) (with suitable size modular box & metallic cover plate (both side)including supplying of all required accessories of ISI marked as approved as per direction of engg-in-charge. (For equipement power). (Maximum 02 nos point in one circuit).	Nos	80.00		2,242.00	-	179360
157	NSR	Supplying and installation of AC Point having 16-20A DP MCB, C series with enclosure of approved make of suitable size as required as per direction of Engg.-in-Charge.	Nos	9.00		2,537.00	-	22833
158	NSR	Supplying and fixing 32 amps, 240 volts, SPN, industrial type socket outlet, with 2 pole and earth metal enclosed plug top along with 32 amps. C-series, SP MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet, and complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge. ISI marked as approved.	Nos	6.00		3,717.00	-	22302
159		CIRCUIT & SUBMAIN				-	-	
160	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable of approved make in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 1.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor. In 20 mm dia non metallic heavy duty conduit (6ASB to LOOP SB/SECONDARY SB)(2X1.5+1X1.5)	Mtr	1000.00		189.98		1,89,980.00
161	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable of approved make in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 2.5 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit.(BDB to LSB/LIGHT CKT/SA PLUG) (2X2.5+1X1.5)	Mtr	2000.00		206.50		4,13,000.00
162	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable of approved make in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 4 sq. mm copper wire for phase and neutral and 01 no of single core 1.5 sq. mm copper wire for earth continuity conductor in 20 mm dia non metallic heavy duty conduit .(PDB to PSB/ POWER POINT/AC POINT) (2X4+1X1.5)	Mtr	280.00		227.74		63,767.20
163	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable of approved make in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 2 nos single core 6 sq. mm copper wire for phase and neutral and 01 no of single core 2.5 sq. mm copper wire for earth continuity conductor in 25 mm dia non metallic heavy duty conduit .(LFDB TO LBDB/LBDB) (2X6+1X2.5)	Mtr	150.00		264.32		39,648.00
164	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable of approved make in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 4 nos single core 6 sq. mm copper wire for phase and neutral and 02 nos of single core 4 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty conduit .(LFDB TO LBDB) (4X6+2X2.5)	Mtr	102.00		378.78		38,635.56
165	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable of approved make in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 4 nos single core 10 sq. mm copper wire for phase and neutral and 02 nos of single core 6 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty conduit .(PFDB TO PBDB power) (4X10+2X4)	Mtr	103.00		528.64		54,449.92
166	NSR	Recess wiring for circuit/submain wiring with the following mentioned size PVC FRLS insulated, copper conductor, single core cable of approved make in recessed HMS FRLS PVC conduit of mentioned size as required as per direction of Engg.-in-Charge. 4 nos single core 16 sq. mm copper wire for phase and neutral and 02 nos of single core 6 sq. mm copper wire for earth continuity conductor in 32 mm dia non metallic heavy duty conduit .(PFDB TO PBDB/ACDB power) (4X16+2X10)	Mtr	105.00		783.52		82,269.60
167		Sub-Head II (Light fitting Fixture & Fan)				-	-	
168	NSR	Supplying, installation, testing and commissioning of energy efficient LED tube light fittings with decorative alluminium batten and LED tube light having power rating not more than 20 watt and lumen output not less than 2200 lumen complete with electronic driver and all other accessories with diffuser having 2 years warranty i/c connection etc as required of approved make as per direction of Engg.-in-Charge.	Nos	75.00		859.04	-	64428
169	NSR	Supplying and fixing of Energy efficient surface /recess mounted square /round shape 18 W LED luminaire of dimension of consists of white powder coated , die-cast Alluminium housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 18 watt and lumen output of 1800 lumens , CRI not less than 80,CCT of 6000 degree K,THD less than 10%, with electronic driver, internal surge protection of 3 KV , L70 B50: 50000 hrs and all other accessories suitable for operation on 220 V to 240 V supply as required of approved make as per direction of Engg.-in-Charge.	Nos	80.00		1,817.20	-	145376
170	NSR	Supplying and fixing of Energy efficient surface /recess mounted square /round shape 12 W LED luminaire of dimension of consists of white powder coated , die-cast Alluminium housing with high quality frosted diffuser for glare-free uniform lighting distribution with wattage not more than 12 watt and lumen output of 1200 lumens , CRI not less than 80,CCT of 6000 degree K,THD less than 10%, with electronic driver, internal surge protection of 3 KV , L70 B50: 50000 hrs and all other accessories suitable for operation on 220 V to 240 V supply as required of approved make as per direction of Engg.-in-Charge.	Nos	25.00		2,220.76	-	55519
171	NSR	Supplying and fixing of Energy efficient recessed mounted LED luminaire made up of CRCA powder coated housing, bottom opening clean room LED luminaire of 600 X 600 x 65 mm size with of 36 W and system lumens output not less than 3600 lumens , IP65 ,dust free & zero maintenance , anti glare high transmittance PMMA diffuser , operating volatge range 150-265 V, high performance potentiometric electronic driver for zero maintenance , 2.5 KV Internal urge protection, L70 B 50: 50,000 hrs , CRI not less than 80, CCT of 5700-6500 degree K, THD less than 10%,IP 65 protection complete with all other accessories suitable for operation on 230 V, 50 Hz supply as required as per direction of Engg.-in-Charge.	Nos	15.00		7,493.00	-	112395

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
172	NSR	Supplying and fixing of Energy efficient Recess /Surface mounted square/round shaped LED luminaire made up of CRCA powder coated sheet steel of 25W (2'x2') 595mmx595mmx70mm and system lumens output not less than 3250 lumens (130 lm/ wt) with diffusers for better light transmission and pure effect with High luminous flux LEDs for better light output, CRI not less than 80, CCT of 5700-6500 degree K, THD less than 10%,internal surge protection of 3 KV, complete with Non integrated isolated electronic driver (protects the output /secondary side from any disturbance on the input / primary side ensuring safe operation) and all other accessories suitable for operation on140- 270 V, 50 Hz, L70 @50,000 burning hrs (5 years warranty) of approved make as required as per direction of Engg.-in-Charge.	No	10.00		3,164.76	-	31647.6
173	NSR	Supplying, installation, testing and commissioning of Slek LED 10 watt mirror light fitting with extruded polycarbonate housing,High optically efficient diffuser,above wash basin complete with all accessoriesetc. directly on wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required of approved make as per direction of Engg.-in-Charge.	Nos	60.00		868.48	-	52108.8
174	NSR	Supplying, installation, testing and commissioning of 10 watt LED BULK HEAD light fitting with extruded polycarbonate housing,High optically efficient diffuser complete with all accessoriesetc. directly on wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required of approved make as per direction of Engg.-in-Charge.	Nos	5.00		2,036.68	-	10183.4
175	NSR	Supplying, installation, testing and commissioning of 1200 mm sweep white/milky colour BLDC copper winding ceiling fan with aluminium blades having wattage not more than 28W and air delivery ≥215m3/min of approved make including wiring the down rod of standard length (upto 30 cm) with 1.5 sq mm PVC insulated, copper conductor, single core cable etc. as required as per direction of Engg.-in-Charge.	Nos	70.00		4,394.32	-	307602.4
176	NSR	Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required as per direction of Engg.-in-Charge . (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored) of ISI mark as approved.	Nos	102.00		38.94	-	3971.88
177	NSR	Supplying and fixing of 5 step type Modular electronic Fan Regulator. ISI Marked of approved make with all connection complete in all respect as per direction of Engineer in charge.	Nos	50.00		441.32	-	22066
178	NSR	Supplying,installation,testing & commissioning of exhaust fan of heavy duty 300 mm sweep 1400 rpm with louvers of exhaust fan in the existing wall, including fixing & connection as required of approved make as per direction of Engg.-in-Charge.	Nos	30.00		3,693.40	-	110802
179		BDBS,DB,AC,DB,FLOOR PANELS,MCBS				-	-	
180	NSR	Supplying and fixing of following mentioned way, three pole/single pole and neutral, sheet steel,double door MCB distribution board, 415 volts/240 volts shall be as per IEC 61439-3,integrated door earthing system offering additional safety to the user,High quality polyurethane Gasket,the box and cover shall be fabricated to withstand IK09,the DB should be properly pre-treated with 7 tank process and duly powder coated, phosphatized with powder coated finish, on surface/recess, complete with terminal blocks,with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral busbar, earth bar, din bar as required of approved make as per direction of Engg.-in-Charge.				-	-	
181	NSR	4 Way(8+12) Way TPN MCB DD DB Horizontal Type as per IEC 61439-3 suitable for Flush mounting and Surface mounting with 100A Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet, IP43-IK09 with metal door as required of approved make as per direction of Engg.-in-Charge.(FOR LIGHT,ComputerDB)	Nos	2.00		5,038.60		10,077.20
182	NSR	6 Way(8+18) Way TPN MCB DD DB Horizontal Type suitable for Flush mounting and Surface mounting with 100A Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet, IP43-IK09 with metal door(FOR LIGHT,POWER INDOOR,3-PH,POWER LOAD).	Nos	2.00		6,218.60		12,437.20
183	NSR	8 Way(8+24) Way TPN MCB DD DB Horizontal Type suitable for Flush mounting and Surface mounting with 100A Copper Bus Bar for each phase, with neutral Bus bar, Earth Bar & Cable ties for cable management, prefitted masking sheet, IP43-IK09 with metal door as required of approved make as per direction of Engg.-in-Charge. (FOR POWER & INDOOR AC DB)	Nos	2.00		7,265.26		14,530.52
184	NSR	12 way DD single pole and neutral sheet steel MCB distribution board 250V on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required of approved make as per direction of Engg.-in-Charge.	Nos	1.00		2,326.96		2,326.96
185	NSR	2+4 way MCB Enclosure DB (GLAZED door only each EM. CONNECTION UPS LOAD) as required of approved make as per direction of Engg.-in-Charge.	Nos	2.00		2,004.82		4,009.64
186	NSR	Supplying and fixing 6- 32 amps rating, 240 volts, C series, Single poles MCB of approved make in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.	Nos	130.00		378.78		49,241.40
187	NSR	Supplying and fixing 6- 32 amps rating, 240 volts, C series, Double poles MCB of approved make in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.	Nos	3.00		1,136.34		3,409.02
188	NSR	Supplying and fixing 40 Amps rating,4P 440V, RCCB 30mA of approved make in the existing MCB DB complete with connections, testing and commissioning etc. as required as per direction of Engg.-in-Charge. The RCCB should be	Nos	3.00		6,182.02		18,546.06
189	NSR	Supplying and fixing 63Amps 4P 415 volts RCCB 30 mA of approved make in the existing MCB DB complete with connections as per direction of Engg.-in-Charge.	Nos	2.00		6,182.02		12,364.04
190		PANELS				-	-	
191		MAIN PANEL AT GF				-	-	
192	NSR	Supplying,installation,testing & commissioning of CPRI testedLT indoor floor mounted cubical type electrical main panel (for both light and power circuit) made out by 2mm CRCA steel sheet duly derusted & painted by siemens gray powder cote paint followed by 9 tank acid treatment is designed as G.A drawing as per direction of Engg.-in-Charge.Warranty period of replacement of panel & accessories must be 3 year & complete test certificate must be submitted along with panel board including component list.80X10MM Separate Aluminium Earth bus bar should be installed.	Set	1.00		3,45,561.82	-	345561.82
193		Incommer				-		
194		200A 4P onload changeover switch - 1 no				-		
195		200A 4P MCCB '36kA', Icu=100%Ics, with Thermal Magnetic Protection- 1 No				-		
196		Busbar				-		
197		04 numbers of 200Amps aluminium busbar with 0.8A/SQ.MM current carring capacity. busbar duly sleeved by color coated PVC sleeve & supported by suitable size DMC insulator. (for outgoing)				-		
198		Out going				-		
199		63A 4P MCB, '10kA'- 9 nos				-		

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
200		32A 4P MCB, '10KA'- 9 nos				-		
201		32A 2P MCB, '10KA'- 6 nos				-		
202		Instrument				-		
203		03 numbers phase indicating lamp with toggle switch & HRC fuse.				-		
204		01 set of digital type multifunction meter with CT for voltage,current,frequency,PF,THD indication with RS 485 COMPACTIVITY FOR BMS DATA.				-		
205		CABLING AND END TERMINATION MAIN AREA				-		
206	NSR	Supplying of one number PVC insulated armoured and PVC sheathed XLPE property AL conductor power cable of 1.1 KV grade following size cables as required of approved make as per direction of Engg.-in-Charge.				-		
207		3.5core x 120 sq mm	Mtr	70.00		1,738.14		1,21,669.80
208		LAYING OF CABLE				-		
209	NSR	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size exceeding 25 SQ. MM but not exceeding 120 SQ. MM direct in ground in the trench in one horizontal formation including excavation ,sand couching protection covering and refilling the trench etc as required as per direction of Engg.-in-charge.	Mtr	70.00		213.58		14,950.60
210	NSR	Laying of PVC Insulated PVC Seated /XLPE power cable of 1.1 kv grade size not exceeding 120 SQ. MM From 25 SQ. MM in surface with shaddle and screw etc as required as per direction of Engg.-in-charge.	Mtr	10.00		186.44		1,864.40
211		TERMINATION				-		
212	NSR	Supplying and making end termination with brass double compression gland and aluminium lugs for following mentioned size cable as required of approved make as per direction of Engg.-in-Charge.				-		
213		3.5 core x 120 sq mm	Nos	2.00		580.56		1,161.12
214	NSR	Providing,fixing and laying of following dia G.I. pipe (medium class) in ground complete with G.I fitting incl. trenching(75 mm depth) and refilling as required of approved make as per direction of Engg.-in-Charge.				-		
215		50 mm dia	mtrs	10.00		527.46		5274.6
216		EARTHING INSTALLATION				-		
217	NSR	Supplying,installation,testing & commissioning of materials and installation of GI earth plate 600mmx600mmx6mm thick ISI marked with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonry enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge.	Nos	2.00		7,670.00		15340
218	NSR	Supplying,installation,testing & commissioning of materials and installation of Copper earth plate 600mmx600mmx3.18mm thick ISI marked with G. I. nut bolts & washers including cost of burnt wood charcoal, salt, foreign soil, water pouring arrangements, brick masonry enclosure on top with removable RCC cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge.	Nos			21,309.62		
219	NSR	Providing and fixing 25mm x 5 mm GI strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	Mtr	10.00		227.74		2277.4
220	NSR	Providing and fixing 50mm x 6 mm GI strip on surface or in recess for connections etc. as required as per direction of Engg.-in-Charge.	Mtr	20.00		377.60		7552
221		LAN SYSTEM				-		
222	NSR	Supply ,installation ,testing & commissioning 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 700 MHz , RoHS Compliant as required of approved make as per direction of Engg.-in-Charge.	Mtrs.	1000.00		97.94		97940
223	NSR	Supply ,installation ,testing & commissioning of Cat6 I/O with Dual Face plate: The Outlet shall meet or exceed requirement as per ANSI/TIA 568-C.2,ISO/IEC 11801, & EN50173. The information outlet NEXT, PSNEXT, FEXT, ELFEXT, PSELFEXT and return loss should be verified for CAT6 @ 250Mhz & CAT6A @ 500Mhz. The information outlet connector shall be of gold/nickel, thickness of gold > 0.8 µm. The connectors shall be compatible as per IEEE 802.3af standard for POE application. The PVC material of Face plate should comply ABS /UL94-V-0 certified as required of approved make as per direction of Engg.-in-Charge.	Nos	50.00		1,195.34		59767
224	NSR	Supply ,installation ,testing & commissioning of Cat 6, 24-port loaded, 1U Modular Jack Panel Should accommodate Cat6 with Rear Cable Management and Front removable Toolless Information outlet. Should have easy clip management with labels and clear label covers, Made with of Dicast Aluminium Alloy Material and Non Corrosive with Cat6 toolless RJ45 x 24 ports with color code front panel with patch cord locking as required of approved make as per direction of Engg.-in-Charge.	Nos	2.00		11,585.24		23170.48
225	NSR	Supply ,installation ,testing & commissioning of Cat 6 UTP 24 AWG Patch Cord Patch cord: 6 UTP Patch Cords are Factory Tested for Better Quality and Suitable for the High Speed Data Transmission. Complies to the Standard ANSI/TIA/EIA-568-C.2 Standard. Supports Data Networks Speeds Up to 10/100-Base-T and 1000-Base-T. Available in LSZH Jacket- Reduced Toxic Gasses Emitted During Combustion , RJ45, 8P8C, 2 FORK 50µ" Gold Plated Contacts , 100% Factory Tested , Transparent Boot Cable Assemblies as required of approved make as per direction of Engg.-in-Charge. for 1mtr Length	Nos	70.00		403.56		28249.2
226	NSR	Supply ,installation ,testing & commissioning of Cat6 UTP 24 AWG Patch Cord Patch cord: 6 UTP Patch Cords are Factory Tested for Better Quality and Suitable for the High Speed Data Transmission. Complies to the Standard ANSI/TIA/EIA-568-C.2 Standard. Supports Data Networks Speeds Up to 10/100-Base-T and 1000-Base-T. Available in LSZH Jacket- Reduced Toxic Gasses Emitted During Combustion , RJ45, 8P8C, 2 FORK 50µ" Gold Plated Contacts , 100% Factory Tested , Transparent Boot Cable Assemblies as required of approved make as per direction of Engg.-in-Charge. for 2mtrs Length	Nos	50.00		480.26		24013
227	NSR	Supply ,installation ,testing & commissioning of 6 core Single mode OS2 Unitube Armoured Optical fiber cable through existing conduit: The Fiber should be OS2 Single Mode Optical Fiber Cable of Size 9/125µm. Outdoor Corrugated Steel tape Central loose tube. (Standard Approved: ISO 11801 2nd edition/ EN 50173-1:2002 / IEC 60794-1/IEC 60793-2-50 class B1.3 / EN 60793-2-50: class B1.3 / ITU Recommendation G.652.D - the oder ITU designations A, B and C are also fulfilled / OS1/ISO/IEC 24702:2006, cat. OS2; also OS1 requirements are fulfilled/IEEE 802.3 - 2002 incl. 802.3ae) Jacket as required of approved make as per direction of Engg.-in-Charge.	Mtrs.	100.00		145.14		14514

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
228	NSR	Supply ,installation ,testing & commissioning of Rack mount Draw Type Loaded 6 port LIU available in Standard 19" ,Dimensions (mm) : 430 X 220 X 1U , Cold Rolled Steel as Raw Material , Consist of Top Cover and Bottom Panel , Easy to Assemble and Dissemble , Three Types of Input Holes Cable Entry Through Water Proof Cable Clamp , 12 Duplex SC or LC Adapter Interface , Splice 24 Fibers at Most with 1 Tray ,Adaptor, SM, Duplex SC, PC Type ,Pigtail, Support the TIA/EIA Telecommunication Wiring Standards. Compact Design , Telcordia GR-326-Core as required of approved make as per direction of Engg.-in-Charge.	Nos	2.00		9,848.28		19696.56
229	NSR	Supply ,installation ,testing & commissioning of OFC Patch Cor, SM (OS2), Duplex LC-SC, LC-LC PC Type, 3M, LSZH Fiber Optic Single Mode OS2 Patch Cords are offered in LSZH Jackets with Corning Fiber,Insertion Loss : <= 0.2 db, Max 0.3db/MTRI: Max 0.5db Return Loss : PC>= 45db, UPC>=50db, APC>=60db as required of approved make as per direction of Engg.-in-Charge.	Nos	4.00		2,715.18		10860.72
230	NSR	Supply ,installation ,testing & commissioning of 1G-LX/LH SFP transeiver module,SMF, 1310nm, 9/125 um Single mode Fiber Type up to 20 KM as required of approved make as per direction of Engg.-in-Charge.	Nos	2.00		7,080.00		14160
231	NSR	Supply ,installation ,testing & commissioning of 24 Port Layer 2 PoE+ Switch having 24 x 10/100/1000 Mbps Ethernet PoE+ ports with 4 x 1/10Gig SFP+ ports ,1 x RJ45 port console port ,Switching Capacity 128 Gbps , Throughput 96 Mpps ,MAC Address 16k , Switch should support IEEE 802.3af (15.4W) & IEEE 802.3at (30W). Total PoE power: 370W or above , Switch should support DHCP server/relay/client, DHCP snooping/option82 , Switch should support Console, Telnet, SSH v1/2, HTTP, HTTPS, SNMP v1/v2/v3, RMON , TFTP, FTP, SFTP, NTP, ZTP, SPAN, RSPAN,Switch should support support ICMPPv6, DHCPv6, ACLv6 ,IPv6 Telnet ,Temperature 0°C -50°C ,Power Supply AC: 100-240V as required of approved make as per direction of Engg.-in-Charge.	Nos	1.00		90,907.20		90907.2
232	NSR	Supply ,installation ,testing & commissioning of 9U/500D Wall Mount Rack with Accessories: The rack size should be 600W x 500D, Front frame integrated with top, bottom, front and two side panels for better rigidity and strength, Front Glass Door with Lock loaded, Compliance with standards shall be UL 2416., DIN 41494, IEC EN 60529, IEC EN 62262 , IEC EN 60068-2-11 , ISO 9001:2008 including Power Distribution Unit (06/16 Amp Indian-Standard - 06 Socket - Single Pole / Screw Mountable / 16 Amp MCB / Alternating Current - 16 Amp 3 Pin Plug with Power Cable 2.5 sq.mm 3 meter Lengtl), 1 cooling Fan(230V AC - 90 CFM, dB 42), 2nos 1U Metal Cable manager with Plastic cable loops and H/W screw as required of approved make as per direction of Engg.-in-Charge.	Nos	2.00		13,257.30		26514.6
233	NSR	Supplying and fixing of following sizes of heavy class PVC FRLS conduit ISI marked along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required as per direction of Engg.-in-Charge.				-		
234		20 MM	Mtrs.	800.00		151.04		120832
235		25 MM	Mtrs.	405.00		153.40		62127
236	NSR	Supply , Installation ,testing , commissioning of Gate way Router with Built-in firewall provides anti-virus, layer 3-7 IDS/IPS, DPI, SSL detection, and more. Built-in VPN router supports 2.5Gbps or 3Gbps to allow easy remote access. 2 x 2.5 Gigabit SFP port and 10 x Gigabit Ethernet ports *3x Fixed WAN. 2.5Gbps Router. 4 x PoE out ports, IEEE802.3af/at, Maximum PoE Wattage: 36W as required of approved make as per direction of Engg.-in-Charge.	Nos	1.00		80,830.00		80830
237		(IP-PBX System)				-		
238	NSR	Supplying and fixing of Hybrid EPABX system equipped with 128 Analog extensions and 6 Analog Trunk, including required hardware and software etc as required as per direction of Engg.-in-Charge.	Set	1.00		1,18,000.00		118000
239	NSR	Supplying desktop telephone sets with colour ID as required as per direction of Engg.-in-Charge.	Nos	4.00		1,416.00		5664
240	NSR	Supply and fixing of 10 pair krone box	Nos	1.00		1,840.80		1840.8
241	NSR	Supplying and drawing following pair 0.5 sq mm FR PVC insulated annealed copper conductor, unarmored telephone cable in the surface/ recessed steel/ PVC conduit as required as per direction of Engg.-in-Charge.				-		
242		2 Pair	Mtrs.	162.00		41.30		6690.6
243		10 Pair	Mtrs.	65.00		218.30		14189.5
244	NSR	LIGHTNING ARRESTER						
245	NSR	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	Each	5.00		718.62		3,593.10
246	NSR	Fixing of lightning conductor finial (single prong) with base plate including holes etc. complete as required	Each	5.00		497.96		2,489.80
247	NSR	Jointing copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) by riveting / nut bolting/ sweating and soldering etc as required	Each	5.00		164.02		820.10
248	NSR	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	Mtr	230.00		174.64		40,167.20
249	NSR	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)	Mtr	40.00		280.84		11,233.60
250	NSR	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	Each	4.00		165.20		660.80
251		FIRE EXTINGUISHERS				-		
252	NSR	FIRE FIGHTING -: Supplying, installation, testing and commissioning of Electric Motor Driven Pressurization Terrace Pump having discharge of 900 LPM at 35 Mtr head complete with Pump Set, Electric Motor suitable for operation on 415 V ,3 ph, 50 c/s AC supply , Base Frame	No	1.00		95,243.70		95243.7
253	NSR	Supply, installation, testing and commissioning of Floor/Wall mounted sectionalised, front operated top entry dust and vermin proof M.V.Panel Boards suitable for operation at 415V, 3 phase, 4 wire, 50Hz distribution system fabricated out of 2.0 mm thick CRCA sheet, insulated busbar with heat shrinkable PVC sleeve, base frame, complete with all accessories including interconnections, earth bus etc as required comprising of One (1)- 63 Amp, 10 KA,TPN (Class-C) MCB with 3 Nos Phase indicating lamps with control fuse/ MCB, Digital Voltmeter with selector switch. DOL starter with O/L and Single Phasing Preventor suitable for 7.5 HP motor. ON/OFF indication lamps, Auto manual switch and ON/OFF push button.as per direction of engineer in charge Control panel for fire pumps for auto action.	No	1.00		44,604.00		44604
254	NSR	SITC of FRLS, PVC outer sheath, steel armoured, aluminium, 1100v grade power cables with glands etc. The minimum size of the cables shall as mentioned below as per direction of engineer in charge 3.5C x 16 mmsq	Rmt	220.00		359.90		79178
255	NSR	Supply & Fixing of 2 core 1.5 sq.mm, multi strand, copper conductor, FRLS (Fire Retardant Low Smoke)-PVC insulated GI Screened Armoured cable with saddle and required accessories.& Power Cable.	Rmt	35.00		158.12		5534.2
256	NSR	G.I. earthing strips of 25mm x 6mm thick, strip shall be run for PUMPS	Rmt	42.00		230.10		9664.2
257		PIPE & VALVES ETC.				-		

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
258	NSR	Supplying, installation testing and commissioning of the following:- ‘C’ class MS Pipe as per IS1239 for underground/over ground pipes with welded / flanged connection with saddles, supports (all with screwed/welded joints) as required including pipe of shorter lengths, tapering connecting pieces, short or long bends, specials like sockets, union nuts, elbows, reducers, plugs, Tees etc. Complete to make the system operative as required by LFA / TAC authorities the pipes will have to be laid and fixed in trenches. The work includes excavation in all types of soils and back filling, dewatering, etc., making holes in brick or RCC walls, slabs/ roofs and making good the damages by bringing to the original condition to the satisfaction of the client and painting two coats of approved shade(Post office red)of enamel paint over a coat of approved primer for overheads pipes and providing and fixing pyp kote (corrosion protection tape) including supply and application of pipe coating and spiral Wrapping for underground piping (wrapping should have overlap of 15 to 20 mm) etc.Complete as per ASTM standards/IS: 10221 for corrosion protection of pipes for the underground installation.Note: The piping installation has to be put to hydraulic test to1.5 times the working pressure & as per latest applicable codes & standard before applying paint or pipe coating or wrapping etc. complete.				-		
259		100mm NB	Mtr	33.00		2,899.26		95675.58
260		80mm NB	Mtr	22.00		1,604.80		35305.6
261		25mm nb	Mtr	15.00		729.24		10938.6
262	NSR	Supplying, installation testing and commissioning of the following:- ‘C’ class MS Pipe as per IS1239 for underground/over ground pipes with welded / flanged connection with saddles, supports (all with screwed/welded joints) as required including pipe of shorter lengths, tapering connecting pieces, short or long bends, specials like sockets, union nuts, elbows, reducers, plugs, Tees etc. Complete to make the system operative as required by LFA / TAC authorities the pipes will have to be laid and fixed in trenches. The work includes excavation in all types of soils and back filling, dewatering, etc., making holes in brick or RCC walls, slabs/ roofs and making good the damages by bringing to the original condition to the satisfaction of the client and painting two coats of approved shade(Post office red)of enamel paint over a coat of approved primer for overheads pipes and providing and fixing pyp kote (corrosion protection tape) including supply and application of pipe coating and spiral Wrapping for underground piping (wrapping should have overlap of 15 to 20 mm) etc.Complete as per ASTM standards/IS: 10221 for corrosion protection of pipes for the underground installation.Note: The piping installation has to be put to hydraulic test to1.5 times the working pressure & as per latest applicable codes & standard before applying paint or pipe coating or wrapping etc. complete.				-		
263		100mm NB	Nos	4.00		6,289.40		25157.6
264	NSR	Providing, fitting & fixing of following size cast iron double flanged type dual plate Non return Valve as per IS- 5312 (Part 1): 2004 with ISI mark of pressure rating PN-1.60 including fixing the same with supply of required jointing materials like flanges, rubber insertion, MS nuts & bolts, paint etc. and testing the joints with required water pressure etc. all complete as per specification & direction of Engineer-in-charge.				-		
265		100mm NB	Nos	5.00		7,634.60		38173
266	NSR	Supply,Installation,Testing & Commissioning of Pressure gauge of 0-16 Kg/sq.cm. range with cut-off bronze ball valves of suitable size with all accessories as per direction of Engineer-in-charge.	Nos	5.00		1,864.40		9322
267	NSR	Supply,Installation,Testing & Commissioning of Pressure Switch with cut-off bronze ball valves with integral strainer & flare nut (mixed ends) of suitable size with all accessories as per direction of Engineer-in-charge.	Nos	5.00		3,740.60		18703
268	NSR	Supply,Installation,Testing & Commissioning of stainless steel strainer fabricated out of 1.6 mm thick stainless steel sheet Y Stainer with 3 mm dia hloes with stainless steel flange as required.				-		
269		100mm NB	NOS	5.00		10,502.00		52510
270		DOWN COMER SYSTEM				-		
271	NSR	Supply,Installation,Testing & Commissioning of Stainless steel Hydrant Valve / Landing valve, of 63 mm NB size, type-A, single headed , oblique type, as per IS :5290/93 and as per direction of Engineer-in-charge.	Nos	4.00		8,130.20		32520.8
272	NSR	Supply,Installation,Testing & Commissioning of SS short branch pipe with 63 mm male inlet and 19 mm outlet nozzle, as per IS:903 and as per direction of Engineer-in-charge.	Nos	4.00		2,808.40		11233.6
273	NSR	Supply,Installation,Testing & Commissioning of 63 mm NB and 15meter long RRL Fire Hose fitted with 63mm instantaneous stainless steel male & female SS coupling, complete by GI wire binding for Internal Hydrant as per direction of Engineer-in-charge.	Nos	4.00		6,926.60		27706.4
274	NSR	Providing supply & fixing of MS Hose Box for of suitable size(750X600X250mm) to accomodate 2 nos. of 15/ 1 no of 30 mtr long fire hose and a branch pipe, wall mounted type as per direction of Engineer-in-charge.	Nos	4.00		6,372.00		25488
275	NSR	Supply,Installation,Testing & Commissioning of Swinging pattern wall fixing first aid hose reel made from MS sheet and waterways and moving parts with rubber hose of 20 mm dia. and 30 mtrs. long with ABS(Plastic) shut-off nozzle as per IS: 444/IS: 12585 Type-L, complete with all accessories as per direction of Engineer-in-charge.	Nos	4.00		9,765.68		39062.72
276	NSR	Providing, fitting and fixing of C.I. 25 MM single air relief valve with stop cock confirming to IS:14845/2000 with ISI mark for water works purpose including fixing the same with hydrant riser including testing & commissioning the system etc. all complete as per approved specification & direction of Engineer-in-charge.	Nos	4.00		1,699.20		6796.8
277	NSR	Providing, fitting & fixing of 4-Way GM fire brigade connection consisting of 63 mm dia instantaneous type male couplings with built-in check valves, 150mm dia flanged outlet complete with bolts, nuts and rubber insertions confirming to IS:904 with ISI mark including testing & commissioning the system etc. all complete as per approved specification & direction of EIC.	Nos	3.00		6,974.98		20924.94
278		EXTINGUISHER SYSTEM				-		
279	NSR	Portable Fire Extinguisher System Supplying, installation, testing and commissioning of CO2 type Fire Extinguisher 4.5 kg capacity confirming to IS: 2878 made from ISI marked seamless cylinder confirming to IS: 7285, fitted with ISI marked controlled valve confirming to IS: 3224, high pressure 1mtr discharge hose & horn complete with initial gas charged with carrying handle & wall mounting bracket as per direction of Engineer-in-charge.	Nos	3.00		9,086.00		27258
280	NSR	Supplying, installation, testing and commissioning of ABC type fire extinguishers of 6 kg capacity including cost of all material & labour etc complete.	Nos	3.00		3,851.52		11554.56
281	NSR	Fire buckets (FILLED WITH SAND) round bottom type enamel painted, white inside & Red out side and Letter "FIRE" in black out side and handle with mounting bracket.	Nos	3.00		5,000.84		15002.52
282		AUTOMATIC FIRE ALARMING SYSTEM				-		

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
283	NSR	Supply, installing, testing and commissioning of of 4 Loop Network Panel Micro processor based 4 wire fault tolerant loop,with inbuilt network port (each loop accessing 99 or more detectors and 99 or more modules) fire alarm/detection control panel. The Panel shall have 10000 or more event log history . Panel shall be capable of having 1600 or more configurable zones .The panel shall be able to give location of all fire/fault conditions of addressable units via the address codes. Further, the panel must be able to automatically switch ON /OFFrespective control module when ever any alarm is triggered. The panel shall have 7 Inch Touch Screen unit to indicate Fire/Fault Signal with address and analog output, external/inbuilt printer to log all fire or fault events complete in all respects.The Panel Shallbe Sheet Steel Painted, selaced to IP30. The Panel Shall have provision for 40 or more Zones with Individual LED Indicators expdable upto 200 Zones or higher. The panel shall have a built in power supply and battery charger along with maintenance free 7 AH, 2 x 12 volt SMF Lead acid batteries capable of running for a minimum of 48 hours with battery charger complete as required.and as per specifications. conforming to BS5839 Standards and Duly Approved by EN54 The panel shall support detection logics like coincidence & verification detections for the false alarm management. The Panel shall adjust the sensitivity between day and night to maintain the better detection/reponse time. The Panel shall be capabale of programming through PC ; Touch Screen of USB .This panel having facility of MODBUS protocol over TCP/IP for BMS integration.The panel should have provision for inbuilt RJ45 connection terminal for connecting to the LAN with inbuilt BACNET Protocol.	No	1.00		4,27,160.00		427160
284	NSR	Supplying, installing, testing and commissioning of adressable multi sense smoke detector with inbuilt isolator module/isolator base,base, junction box and other accessories.	Nos	18.00		4,189.00		75402
285	NSR	Supplying, installing, testing and commissioning of Addressable Manual Call Point with inbuilt monitor module and back box.	Nos	15.00		6,089.98		91349.7
286	NSR	Supplying, installing, testing and commissioning of adressable Hooter at 85 dBA @ 3m for Audible annunciation and 75cd flashing at 1 Hz for visual indication with all accessories etc., complete.	Nos	18.00		8,190.38		147426.84
287	NSR	Supplying, installing, testing and commissioning of 2C x 1.5 sq. mm, Twisted Pair PVC insulated FRLS Armored Cable with Accessories conforming to IS standards and specifications. The quoted rate shall includes of Acrylic Fire stop Sealant in the opening for cables passing through fire compartment walls of RCC floors, masonry walls to provide up to 2 hours fire rating.	Mtr.	1206.00		166.38		200654.28
288		PA SYSTEM				-		0
289	NSR	Supplying, installation, testing & commissioning of 6 zone,voice alarm controller with USB, MP3 player (including 6 zone button paging station) with seamless integration facility with main fire alarm panel for voice evacuation complete as required.	Nos.	1.00		1,18,868.48		118868.48
290	NSR	Supplying, installing, testing and commissioning of Power amplifier of 480 watt.The amplifier should be clean reliable audio for public address amplification.Line input less than 1 volt, unbalanced& line output less than 1 volt unbalanced.	Nos.	1.00		61,124.00		61124
291	NSR	Supplying, installing, testing and commissioning of 12 Watt wall mounted speakers with built in line matching transformer, grill flush mounting type in side the utility rooms.	Nos.	18.00		3,363.00		60534
292	NSR	Supplying, installing, testing and commissioning of 2 runs of 40 strand and each of 0.2 mm thick, Twisted Pair PVC insulated FRLS unarmored Cable with Accessories conforming to IS standards and specifications. The quoted rate shall includes of Acrylic Fire stop Sealant in the opening for cables passing through fire compartment walls of RCC floors, masonry walls to provide up to 2 hours fire rating.	Mtr.	1132.00		75.52		85488.64
293		SIGNAGES				-		
294	NSR	SIGNAGES:-Providing and installing in position the following type of sign boards made out of 3mm thick flexible photoluminescent based glow in dark sheeting with luminous properties enclosed in a weather proof UVstabilized film with UV screen printing by imported links pasted over3 mm thick cast acrylic from front side with 6 mm thick acrylic, -20 to+80 deg C, Suitablefor indoor use, greenish yellow, glow visible upto 4-6 hr in total darkness for floor indication, fire exit, hydrant, hose reel, fire extinguisher, MCP, fire alarm panel, in case of fire, lift, alarm valve signages, FIRE EVACUATION PLAN	Sqinch	132.00		21.24		2803.68
295	NSR	Illumination Glow light for Exit Indication with Battery Back-up.	Nos	5.00		6,726.00		33630
296		PH WAORK				-		
297	NSR	P.H Work Supplying all materials, labour, T&P and providing and fixing to wall or ceiling and floor C-PVC pipes conforming to pipe fittings of the following nominal bore with clamps including making good the wall, ceiling and floor all complete as per specification and direction of the Engineer in charge GF Floor -20mm dia C-PVC pipe	Mtr	40.00		325.21		13,008.32
298		25mm dia C-PVC pipe	Mtr	45.00		429.40		19,323.09
299		1st Floor- 20mm dia C-PVC pipe	Mtr	25.00		338.78		8,469.45
300		25mm dia C-PVC pipe	Mtr	36.00		442.97		15,946.99
301	NSR	Supplying all materials, labour,T&Pand providing and fixing to wall or ceiling and floor pvc pipes conforming to ASTM-D-1785/04 (Sch-80) and pipe fittings of the following nominal bore with clamps including making good the wall, ceiling and floor all complete as per specification and direction of the Engineer in charge Ground Floor 25mm UPVC ASTM Pipe	Mtr	40.00		362.26		14,490.40
302		32mm UPVC ASTM Pipe	Mtr	30.00		478.37		14,351.16
303		40mm UPVC ASTM Pipe	Mtr	35.00		580.56		20,319.60
304		1st Floor 25mm UPVC ASTM Pipe	Mtr	25.00		375.71		9,392.80
305		32mm UPVC ASTM Pipe	Mtr	35.00		493.83		17,284.05
306		40mm UPVC ASTM Pipe	Mtr	35.00		600.38		21,013.44
307	AR 2013 Item no 3.1.10	Supplying all materials, labour, T&P and cutting holes through existing brick work including making good the damages in cement mortar (1:4) for taking GI pipes and fittings/ PVC pipes and fittings etc all complete as per PH specification and direction of the Engineer in charge.G. Floor	Each	15.00	76.23	-	1,143.42	
308		1st Floor	Each	15.00	77.76	-	1,166.43	
309	AR 2013 Item no 3.1.11	Supplying all materials, labour, T&P and cutting hole in R.C.C floors, roofs, etc upto 19 cm thick for passing G.I. Pipes / P.V.C pipes and fittings etc and repairing the holes after insertion of pipes etc with cement concrete (1:2:4) including finishing complete so as to make it leak proof as per direction of the Engineer in charge.G. Floor	Each	5.00	255.71	-	1,278.53	
310		1st Floor	Each	2.00	257.00	-	514.01	
311	AR 2013 Item no 3.1.12	Supplying all materials, labour, T&P and cutting grooves in pucca floors and walls for taking GI/PVC pipes and making good the damages as per the direction of the Engineer in charge. G. Floor	Mtr	35.00	257.36	-	9,007.53	
312		1st Floor	Mtr	31.00	265.62	-	8,234.16	

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
313	NSR	Supplying all materials, labour, T&P and cutting holes through existing brick or laterite masonry wall for taking HCI pipes and fittings including making good the damages etc all complete as per PH specification and direction of the Engineer in charge 250mm to 375mm thick wall. G. Floor to 5th floor	Each	18.00		305.38		5,496.91
314		1st Floor	Mtr	10.00		305.38		3,053.84
315	NSR	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.				-		
316		15mm dia long body Bib Cock cock	Each	20.00		1,713.24		34,264.84
317		15mm dia CP S.B Bib cock	Each	10.00		1,277.70		12,777.04
318		20mm dia CP concealed stop cock	Each	10.00		1,626.16		16,261.58
319		15mm dia CP angle stop cock	Each	10.00		1,974.49		19,744.94
320		Elbow action Sink Cock	Each	2.00		2,700.43		5,400.86
321		15mm dia CP SINK cock	Each	2.00		2,439.18		4,878.36
322		15mm dia CP Pillar cock	Each	11.00		1,916.44		21,080.82
323		HAND SHOWER (HEALTH FAUCET) WITH 1 METER	Each	10.00		1,480.90		14,809.00
324		15mm dia Two way Bib Cock	Each	18.00		1,480.90		26,656.20
325		Shower arm	Each	20.00		754.96		15,099.28
326		Over head shower 100mm dia round	Each	20.00		1,626.16		32,523.16
327		25mm dia brass or gun metal full way valve	Each	8.00		1,114.63		8,917.02
328		32mm dia brass or gun metal full way valve	Each	8.00		1,632.41		13,059.30
329		40mm dia brass or gun metal full way valve	Each	10.00		2,064.76		20,647.64
330		50mm dia brass or gun metal full way valve	Each	8.00		3,043.22		24,345.76
331		15mm dia CP Flange	Each	25.00		47.55		1,188.85
332		15mm dia CP Extention Nipple	Each	30.00		69.97		2,099.22
333		125mm CP grating	Each	30.00		111.39		3,341.76
334	NSR	SupplySupply, installing, testing and commissioning of Supply of 1000 Litre HDPE Overhead Water Tank (2-layer, 3-layer, etc.) of approved make with UV stabilization, food-grade material & manhole cover complete and commissioning complete with approved quality and make as required as per instruction of site incharge.	Set	3.00		23,600.00		70,800.00
335	AR 2013 Item no 3.3	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 In Ground floor				-		
336		160mm dia U-PVC SWR pipe	Mtr	35.00	647.23		22,653.05	
337		110mm dia U-PVC SWR pipe	Mtr	35.00	585.63		20,497.19	
338		75 mm dia UPVC SWR Pipe	mtr	25.00	403.09		10,077.20	
339		160mm dia U-PVC door bend	Each	6.00	346.45		2,078.69	
340		160mm dia U-PVC plain bend	Each	6.00	309.40		1,856.38	
341		110mm U-PVC door tee	Each	20.00	455.48		9,109.60	
342		110mm U-PVC Plain tee	Each	15.00	380.79		5,711.79	
343		110mm U-PVC door bend	Each	8.00	346.45		2,771.58	
344		110mm U-PVC plain bend	Each	8.00	273.76		2,190.08	
345		110mm dia U-PVC 'P' trap	Each	8.00	586.81		4,694.51	
346		110mm dia U-PVC Plain Shoe Bend	Each	9.00	273.76		2,463.84	
347		110mm dia U-PVC offset with out ear	Each	9.00	480.73		4,326.59	
348		110mm dia U-PVC cowl	Each	9.00	68.68		618.08	
349		75 mm dia UPVC plain bend	Each	11.00	217.12		2,388.32	
350		76 mm dia UPVC plain Tee	Each	9.00	288.86		2,599.78	
351		PVC clamp suitable for 75 mm to 110mm dia pipe	Each	30.00	50.50		1,515.12	
352	AR 2013 Item no-3.4.4	Supplying all materials, labour, T&P and fixing the following vitreous china Wash Down Water Closet (European type W.C pan) with integral 'P' or 'S' trap to the floor with wooden plug and chromium plated pedestal screws including jointing the trap with soil pipe in cement mortar (1:1), fixing plastic seat and cover for wash down water closet with chromium plated brass hinges and rubber buffers including polishing etc all complete as per specification and direction of the Engineer in charge. European water closet with 'S' trap plain	Each	15.00	3909.93		58,648.95	
353	AR 2013 Item no-3.4.1	Supplying all materials , labour, T&P and fixing Vitreous china water closet ,squatting pan (Indian type W.C. pan / Orissa pattern squatting pan) duly embedded in cement concrete 1:5:10 using hard granite metal 4cm nominal size including fixing a pair of vitreous china 250mmx130mmx30mm foot rest, fixing 100mm dia hci 'P' or 'S' trap for water closet squatting pan including jointing the trap with pan in cement mortar (1:1), cutting the floor and mending good the damages etc. all complete as per P.H. specification and direction of Engineer-in-charge. 580mmx440mm size Orissa pan	Each	7.00	2964.87		20,754.08	
354	AR 2013 Item no-3.4.6	Supplying all materials, labour, T&P and fitting and fixing 10 litres capacity low level flushing cistern with a pair of cast iron or M.S brackets complete with fittings such as siphonic arrangements 15mm nominal size brass/pvc ball valve with polythene float CP brass handle, unions and couplings for connection with inlet, outlet and overflow pipes, 32mm dia CP flush bend, 15mm dia pvc inlet connection pipe including cutting holes and making good the same and connecting the flush bend with cistern and closet and connecting the inlet pipe with supply main etc all complete as per specification and direction of the Engineer in charge. 10 litres capacity pvc low level cistern with 32mm dia CP long flush bend Slimline white	Each	20.00	1948.89		38,977.76	
355	AR 2013 Item no-3.4.8	Supplying all materials , labour, T&P and fixing Vitreous china water closet ,squatting pan (Indian type W.C. pan / Orissa pattern squatting pan) duly embedded in cement concrete 1:5:10 using hard granite metal 4cm nominal size including fixing a pair of vitreous china 250mmx130mmx30mm foot rest, fixing 100mm dia hci 'P' or 'S' trap for water closet squatting pan including jointing the trap with pan in cement mortar (1:1), cutting the floor and mending good the damages etc. all complete as per P.H. specification and direction of Engineer-in-charge. Squatting URINAL pan	Each	15.00	3939.67		59,094.99	
356	AR 2013 Item no-3.4.12	Supplying all materials, labour, T&P and fixing wash basins with hole for pillar taps conforming to IS:2556-part-4-2004 with cast iron or M S brackets painted white including cutting holes in walls and making good the damages with supply of wooden plugs, screws and cement etc, fixing pedestal for wash basin recessed at the back for the reception of pipes and fittings, fixing PVC waste pipe of 32mm nominal diameter for wash basin including brass check nut complete, fixing pillar taps capstan head screw down high pressure lettered 'Hot' and 'Cold' with long screws, shanks and back nuts of 15mm dia nominal bore(Plaza make), fixing 15mm dia PVC inlet connection pipe and making connection with pillar cocks and supply mains for wash basin, fixing 32mm dia CP brass waste(Plaza make), etc all complete as per specification and direction of the Engineer in charge Half pedestal Basin	Each	2.00	9106.18	-	18,212.36	

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
357	NSR	Under Counter Basin (560x455) white (Pastels)	Each	15.00		6,167.62		92,514.36
358	AR 2013 Item no-3.4.14	Supplying all materials ,labour ,T&P and fixing wash kitchen sink with outlet at end and weir overflow including fitting and fixing a pair of cast iron or MS brackets painted white, fixing 50mm/40mm dia CP brass waste , fixing 50mm/40mm dia PVC waste pipe 910mm long with supply of wooden plugs, screws and cement etc. including cutting holes in walls and making good the damages etc.all complete as per specification and direction of Engineer-in-charge						
359		600x450x250 mm stainless steel kitchen sink-glossy-IS:13983 - 1994	Each	2.00	5989.56		11,979.12	
360	AR 2013 Item no-3.4.28	Supplying all materials,labour, T&P and fixing standard sized CP towel rail complete with CP brass brackets fixed to wooden plugs with CP screws as per specification and direction of the Engineer in charge. 25mmx600mm long CP towel rail	Each	12.00	886.06		10,632.74	
361	AR 2013 Item no-3.4.29	CP Towel ring	Each	10.00	611.36		6,113.58	
362	AR 2013 Item no-3.4.30	Supplying all materials ,labour ,T&P and fixing CP Soap Holder complete with CP brass brackets fixed to wooden plugs with chromium plated brass screws etc.all complete as per specification and direction of Engineer-in-charge. CP soap holder	Each	45.00	253.23		11,395.26	
363	AR 2013 Item no-3.4.27	Supplying all materials, labour, T&P and fixing standard sized glass-shelf with CP brass brackets and guard rails complete fixed to woden plugs with CP screws as per specification and direction of the Engineer in charge.600mmx125mm glass shelf with CP/NP guard rails	Each	10.00	797.68		7,976.80	
364	AR 2013 Item no-3.4.26	Supplying all materials, labour, T&P and fixing mirror of superior glass conforming to IS:3438-1996 mounted on 6mm thick A.C sheet or plywood sheet and fixed to wooden plugs with CP screws and washers complete as per specification an direction of the Engineer in charge. Design mirror	Each	6.00	1961.99		11,771.92	
365	NSR	Supplying all materials, labour, T&P and providing fitting and fixing (Aqua guard) Pure Chill 120 PSS UV of size 750x570x1350mm height with water storage capacity 120 liters along with 3 nos of faucets 2 for cold water and 1 for normal water including a flow of 1.5 ltr per minute etc all complete as per approved drawing.specification and direction of the Engineer in charge.	Each	2.00		1,54,893.88		3,09,787.76
366	NSR	Stainless steel for Cooler-cum-Purifier	Each	1.00		9,440.00		9,440.00
367	OSR AR 2006 Item no-14 SR 2022	Supplying all materials, labour, T&P and filling in foundation and plinth with sand well watered and rammed including conveyance of all materials to worksite, payment of royalty, taxes etcall complete as per direction of the Engineer in charge. In Ground Floor	cum	10.37	1012.09		10,495.33	
368	OSR AR 2006 item no-4 SR 2022	Supplying all materials, labour, T&P and providing cement concrete (1:4:8) with 4cm size crusher broken hard granite metal including watering, curing, cost of all materials,conveyance of all materials to work site with payment of royalty, all taxes etc all complete as per P.W.D specification and direction of Engineer-in-charge,Ground Floor:-	cum	3.46	6329.40		21,899.73	
369	OSR AR 2006 item no-7 SR 2022	Supplying all materials, labour, T&P and providing cement concrete (1:2:4) with 12mm size hard broken granite chips including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as aper specification and direction of the E.I.C. Ground Floor;-	cum	3.46	8677.13		30,022.87	
370		In FirstFloor floor	cum	2.26	9192.55		20,775.17	
371	NSR	Supply of all materials & laying the waterproofing material of Dr.Fixit torch shield P3160(3mm)with its primer 2 coats or equivalent water proofing material after drying cleaning the concrete surface over the concrete floor/roof/ balcony/sunken and dado upto 1"6" in wall including cleaning,applying and mending as per specification including cost,conveyance,taxes,royalties of all materials to work site etc.all complete as per the direction of the Engineer-in-charge.(Sqm)						-
372		In , First floor	Sqm	81.66		988.49		80,719.77
373	NSR	Supplying all materials, labour, T&P and providing and filling cinder including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge				-		-
374		In FirstFloor floor	cum	6.77		655.79		4,439.66
375	OSR AR 2006 item no-3 SR 2022	Supplying all materials.labour.T&P and providing brick work with KB bricks having curshing strength not less than 75 kg/sqcm with dimensional tolerance+ 8% in cement mortar(1:4) including watering,curing,cost of all materials,conveyance of all materials to worksite,payment of royalty,all taxes etc.all complete as per PWD specification and direction of the Engineer in charge.						
376		In Ground floor(S.S)						
377		C.Basin Wall =4x0.75x0.125x0.90	cum	0.03	7060.29		211.81	
378		FF=C.Basin Wall =2x0.75x 0.125x0.90	cum	0.17	7516.13		1,277.74	
379	OSR AR 2006 Item no-10 SR 2022	Supplying all materials, labour, T&P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge						
380		In Ground floor	Sqm	7.57	899.278		6,807.53	
381		In 1st floor	Sqm	5.27	989.19		5,213.05	
382	OSR AR 2006 Item no. - 2 SR 2022	Supplying all materials, labour, T&P and providing cement concrete (1:1½:3) with 12mm size crusher broken hard black granite chips for RCC works including hoisting, laying, watering, curing,cost of ali materials, conveyance of all materials to worksite, payment of royalty,all taxes etc. all complete as per PWD specification and direction of the Engineer in charge.						
383		In GF,C. basin slab	Cum.	0.67	10021.98		6,714.72	
384		IN FF ,C. basin slab	Cum.	0.47	10537.40		4,952.58	
385	OSR AR 2006 Item no-9 SR 2022	Supplying all materials, labour, T&P and providing steel reinforcement of Fe 415 /Fe-500 grade for RCC work including cutting,bending,binding and tying the grills and placing in position including cost of binding wire 18 to 20 gauge,cost of steel, conveyance of all materials to worksite, payment of royalty,all taxes etc all complete as per PWD specification and direction of the Engineer-in-charge. 0.80 qntl/ cum						
386		In GF,	Qntl.	0.54	11044.80		5,964.19	
387		IN FF	Qntl.	0.38	11084.21		4,212.00	
388	OSR AR 2006 item no-17 SR 2022	Supplying all materials, labour, T&P and fixing Granite tiles in dados skirting on 12mm thick cement plaster (1:3) jointed with neat cement slurry mixed with pigments to match the shades of the tiles including rubbing and polishing complete as per direction of the Engineer in charge In Ground floor	Sqm	13.33	3805.74		50,730.46	
389		IN FF,	Sqm	8.15	3830.162		31,215.82	
390	OSR AR 2006 item no-4 SR 2022	Supplying all materials, labour, T&P and providing 12mm thick cement plaster (1:4) on brickwork including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge. Ground Floor;-	Sqm	184.17	222.55		40,986.67	
391		First Floor	Sqm	201.60	231.988		46,768.78	

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
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					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
392	OSR AR 2012 item no- 1(B) SR 2022	Supplying all materials, labour, T&P and providing ceramic tiles in floors, treads and landing on 25mm thick bed of cement mortar 1:1 (1 cement:1 sand) joined with neat cement slurry mixed with pigment to match the shades of the tiles including rubbing and polishing complete as per direction of the Engineer in charge. to be pre-approved 300 x 300mm of size In Ground Floor	Sqm	56.01	1384.02		77,519.07	
393		First Floor	Sqm	62.95	1400.188		88,141.83	
394	OSR AR 2006 item no- 17 SR 2022	Supplying, fitting & fixing of 400 x 400 mm special plain/printed series Ceramic wall tiles of premium grade having thickness 6.5mm to 6.7mm conforming to IS 13753 laid on 10 mm thick cement mortar (1:3) Spacer Bar of 3mm (1 cement : 3 course sand) jointed with slurry mixed with pigment to match the shades of the tiles etc. complete including cost of all materials, labour T&P etc. required for the work all complete as per direction of the Engineer-in-charge.						
395		Ground Floor:-					-	
396		Qty same as 12mm plaster	Sqm	184.17	1484.558		2,73,411.05	
397		First Floor					-	
398		Qty same as 12mm plaster	Sqm	201.60	1508.87		3,04,187.39	
399		EXTERNAL PH WORK						
400	AR 2013 Item no-5.7	Sinking of 150mm size tube well through hand boring(water jet)method (1 nos.)						
401	AR 2013 Item no-5.7.1	Supplying all materials, labour, T&P and setting up boring equipments including erection of suitable staging for installation of the required size of tube well, dismantling and removing the same after completion of the work, including transportation of the boring equipments, cleaning and levelling the site, excavation of mud pit, channels etc, levelling of site all complete as per direction of Engineer in charge	Each	1.00	20317.36		20,317.36	
402	AR 2013 Item no-5.7.2	Supplying all labour, T&P and transporting the boring pipes, top casing , grouting pipes, P.V.C pipes and fittings, P.V.C well screens, cement, bentonite and gravels etc to the worksite including loading and unloading etc all complete as per direction of Engineer in charge	Each	1.00	1558.308		1,558.31	
403	AR 2013 Item no-5.7.3	Supplying all labour, T&P and drilling pilot bore not less than 102mm dia, without casing pipes in all kinds of soils and rocks for the following depths excluding supply of necessary boring pipes including supply of necessary cutting equipments, extra sockets (whenever required) etc and withdrawing the boring pipes, washing and keeping the bore clear for logging if required all complete as per direction of Engineer in charge						
404		Drilling pilot bore from 0 to 360 metres	Mtr	100.00	1661.912		1,66,191.20	
405	AR 2013 Item no-5.7.5	Supplying all labour, T&P and reaming the pilot bore to the following sizes and depths without casing pipes including withdrawing the boring pipes, washing the bore by means of pipe cylinder etc all complete as per direction of Engineer in charge						
406		Reaming 100mm to 150mm dia						
407		from 0 to 360 metres	Each mtr	100.00	287.57		28,756.60	
408		Reaming 150mm to 200mm dia						
409		from 0 to 360 metres	Each mtr	100.00	340.08		34,007.60	
410		Reaming 200mm to 250mm dia						
411		from 0 to 360 metres	Each mtr	100.00	376.538		37,653.80	
412	AR 2013 Item no-5.7.6	Supplying all labour, T&P and jointing materials and lowering the 300mm dia top casing pipes into the position and removing the same after use all complete as per direction of Engineer in charge						
413		from 0 to 360 metres	Each	2.00	2682.848		5,365.70	
414	AR 2013 Item no-5.7.7	Supplying all labour, T&P and jointing materials and lowering the pvc casing pipes, fittings and well screens in position, including fitting and fixing of centraliser, cutter plug and washing the bore all complete as per direction of Engineer in charge						
415		150 mm dia PVC casing pipe						
416		from 0 to 360 metres	Mtr	100.00	205.44		20,543.80	
417		Cost of 150 mm dia PVC ASTM pipe (sch-80)	Mtr	102.00	1476.65		1,50,618.50	
418		Cost of 150mm dia PVC slott cutting	Mtr	20.00	413.00		8,260.00	
419		Cost of 150mm dia C.I. cutter plug	Nos	2.00	413.00		826.00	
420		Cost of bentonite powder	Qtl	10.00	386.21		3,862.14	
421	AR 2013 Item no-5.7.9	Supplying all materials, labour, T&P and packing the bore with washed gravel of river shingles of required size and specification around the well screen and pipe etc all complete as per the direction of the Engineer in charge	cum	2.00	2875.42		5,750.85	
422	NSR	Supplying all materials, labour, T&P and packing the bore with river sand over the gravel pack etc all complete as per the direction of the Engineer in charge	cum	2.00		182.31		364.62
423	AR 2013 Item no-5.7.10	Supplying all labour T&P and grouting with cement slurry for sanitary sealing in the bore around the upper most 3 metres of 125/100mm dia PVC casing pipe etc all complete as per the direction of the Engineer in charge.	Each	2.00	2173.68		4,347.36	
424		Cost of Cement	Qtls	2.00	614.37		1,228.73	
425	NSR	Supplying all labour, T&P and developing the tube well by 8 hours continuous pumping per day for a minimum of 7 cosecutive days or till clear sand free water is obtained as per the direction of the Engineer in charge	Each	2.00		2,806.16		5,612.32
426	NSR	Fixing of submerssible pump set						
427	NSR	Supplying all materials, labour, T&P and providing, fitting and fixing submersible pump with squirrel cage induction type submersible type submersible electric motor to run on 3 phase/1 phase line voltage ranging from 320 volt to 450 volt conforming to IS: 8034/89 with following specifications with suitable control panel, jointing with GI/PVC/HDPE pipes, electrification, testing, commissioning, trial running, conveyance of all materials to worksite, payment of taxes etc all complete as per specification and direction of the Engineer in charge						
428	NSR	1.50 H.P single phase (vertical submersible pump motor) 3 stage head range 20 to 35 metres, discharge 145 to 110 L.M.P with outlet dia of 25mm	Each	2.00		17,936.00		35,872.00
429	NSR	DOL Control panel	Each	2.00		4,490.49		8,980.98
430	NSR	2.50sqmm flat cable	Mtr	90.00		151.16		13,604.22
431	NSR	20mm dia rigid UPVC pipes	Mtr	60.00		8.14		488.52
432	NSR	Steel rope with cover	Mtr	70.00		31.51		2,205.42
433	NSR	Well cap	Each	2.00		179.71		359.43
434	NSR	50mm size CI bracket	Each	4.00		107.73		430.94
435	NSR	32mm dia steel short piece	Each	2.00		179.71		359.43
436	NSR	Labour charges for lowering including transportation	Each	2.00		2,360.00		4,720.00
437	NSR	Supplying all materials, labour, T&P and constructing Bore well protection chamber of the inside size 650x650x1000height with cement concrete (1:3:6) using 40mm size hard granite metal on foundation, 1st class Fly ash brickwork in cement mortar (1:3), with base cement concrete (1:2:4) using 12mm size h.g chips,12mmthick cement plaster (1:4) inside and outside, R.C.C cover slab in (1:1.5:3) using 12mm size h.g chips, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge.	Each	2.00		15,472.16		30,944.32

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
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					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
438	NSR	Supplying all materials, labour, T&P and providing and fixing to wall or ceiling and floor HDPE pipes and pipe fittings conforming to IS: 4984/2000 (10kgf/sqcm) of the following nominal bore with clamps and jointing by Fusion welding method including testing, making good the wall, ceiling and floor all complete as per specification and direction of the Engineer in charge						
439	NSR	32mm HDPE pipes	mtr	145.00		117.76		17,075.78
440	AR 2013 Item no-3.6.1	Supplying all materials, labour, T&P and constructing gully trap chamber of the following inside size with 8cm thick R.C.C precast cover slab in cement concrete (1:2:4) mix using 12mm size h.g chips, foundation concrete (1:4:8) using 40mm size hard granite metal on bed and around trap, KB brickwork in cement mortar (1:6) in F&P and inside 12mm thick cement plastering (1:3) finished with a floating coat of neat cement including fixing 100mmx100mm size HCl gully trap,150mmx150mm size CI grating etc all complete as per approved drawing, specification and direction of the Engineer in charge. Inside size 250mmx250mm	Each	10.00	2146.18		21,461.84	
441	NSR	Supplying all materials, labour, T&P and constructing inspection chamber of the following size with cement concrete(1:3:6) using 40mm size hard granite metal on bed, 1st class fly ash brickwork in cement mortar(1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips, 12mmthick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, RCC cover slab in (1:1.5:3) using 12mm size h.g chips with RCPC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge. Inside size 760mmx760mmx460mm	Each	14.00		12,911.09		1,80,755.23
442		R.C.P.C Cover	Each	22.00		1,289.86		28,376.88
443	NSR	Supplying all materials, labour, T&P and constructing man hole chamber of the following size with cement concrete(1:3:6) using 40mm size hard granite metal on bed, fly ash brickwork in cement mortar(1:6), moulding and shaping the channel inside and benching with cement concrete (1:2:4) using 12mm size h.g chips,12mmthick cement plaster (1:3) with punning to inside, cement flush pointing (1:3) to outside, R.C.C cover slab in (1:1.5:3) using 12mm size h.g chips with RCPC man hole cover, earthwork in excavation in all kinds of soil and refilling the cavity around the chamber including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge. Inside size 910mmx910mmx910mm	Each	6.00		25,226.98		1,51,361.90
444	NSR	Supplying all materials, labour, T&P and constructing soakway pit of the following size with dry brick walling from bottom upto invert of inlet pipe and fly ash brickwork in cement mortar (1:6) for the remaining height at top, cement concrete (1:4:8) using 40mm size hg chips on bed, 12mm thick cement plaster (1:4) inside and outside over masonry brickwork, gravel backing in the rear of well steining, RCC cover slab in cement concrete (1:2:4) using 12mm size hg chips fitted with iron lifting handles including earthwork in open well excavation in all kinds of soil and refilling of cavity around the pit & painting the iron works, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per approved specification and direction of the Engineer in charge. 1.40m dia x 2.00m deep soakway pit	Each	3.00		30,316.56		90,949.68
445	NSR	Supplying all materials, labour, T&P and laying in trenches (to level or slope) unplasticized PVC pipes conforming to IS: 4985/2000 of the following outside dia for class-3(0.60mpa) including jointing with supply of approved solvent cement by non-heat application method/as per manufacturer's specification, providing and laying in trench cement concrete (1:4:8) with 40mm size hard granite metal in the Type C-1 standard bedding surrounding or encasing including concrete for bedding and curing etc all complete as per PH specification and direction of the Engineer in charge.						
446	NSR	110mm dia U-PVC Around Concrete	Mtr	30.00		1,534.71		46,041.24
447	NSR	160mm dia U-PVC Around Concrete	mtr	88.00		2,488.62		2,18,998.56
448		Construction 1 nos 100 users RCC Septic tank				-		
449	OSR AR 2006 item no 1a SR 2022	Earth work in excavation of foundation in all kinds of soil within 50m initial lead and 1.5m initial lift including rough dressing & breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per direction of the Engineer-in-Charge.						
450		1x9.90mx4x1.50m=	cum	59.40	367.57		21,833.66	
451		- do - with addl. Depth of 1.5 m						
452		1x9.90mx4x0.95m=	cum	37.62	394.09286		14,825.77	
453	OSR AR 2006 item no 15 SR 2022	Supplying all materials,labour ,T&P and filling in foundation and plinth with sand well watered and rammed including cost, conveyance of all materials to work site ,payment of royalty,taxes etc. all complete as per direction of the Engineer-in-charge						
454		In ground floor 1x9.90mx4x0.15m=	cum	5.94	597.198		3,547.36	
455	OSR AR 2006 item no 3 SR 2022	Providing and laying plain cement concrete of (1:3:6) in foundation and floors using 40mm. size black hard crusher broken granite stone metal and screened and washed sharp sand for mortar of approved quality and from approved quarry including hoisting, lowering, laying concrete, ramming, watering and curing etc. complete including cost, conveyance, royalties and cost of all labours,labour cess, T&P etc complete as per specification & direction of the Engineer-in-charge.						
456		In ground floor 1x9.90mx4x0.15m=	cum	5.94	6722.696		39,932.81	
457	OSR AR 2006 item no 7 SR 2022	Supplying all materials, labour, T&P and providing cement concrete (1:2:4) with 12mm size crusher broken hard black granite chips including watering, curing,cost of all materials, conveyance of all materials to work site with payment of royalty, all taxes etc all complete as per P.W.D specification and direction of Engineer-in-charge						
458		In ground floor	cum	3.47	8636.656		29,969.20	
459	OSR AR 2006 item no 2 SR 2022	Supplying all materials, labour, T&P and providing cement concrete (1:1:5:3) with 12mm size hard broken granite chips for R.C.C works including hoisting, laying, watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge	cum	27.87	9446.608		2,63,276.96	
460	OSR AR 2006 item no-10 SR 2022	Supplying all materials, labour, T&P and providing rigid and smooth centering and shuttering for R.C.C works including false work and dismantling them after casting including conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge						
461		For Roof slab	sqm	37.15	907.656		33,719.42	
462		For RCC wall	sqm	128.40	1283.368		1,64,784.45	
463	OSR AR 2006 item no-9 SR 2022	Supplying all materials, labour, T&P and providing M.S reinforcement for R.C.C work including cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge						
464		In ground floor	Qntl	22.30	10488.312		2,33,889.36	

Construction of 100 Seated (G+1) Boys Hostel for Gandhmardan ITI Titlagarh in the district of Balangir, Odisha								
Sl.No	OSR/ NON SCHEDULED RATE(NSR)	DESCRIPTION OF ITEMS	UNIT	QTY	Rate (Rs.)		Amount (Rs.)	
					SCHEDULED	NON SCHEDULED	SCHEDULED	NON SCHEDULED
465	OSR AR 2006 Item no-27 SR 2022	6 mm thick Cement Plaster(1:4) to RCC surface finished smooth including closed deep chipping & slurry treatment (per one Sq. Mtr.)	sqm	83.82	239.19		20,048.57	
466	OSR AR 2006 Item no-6 SR 2022	Supplying all materials, labour, T&P and providing cement punning including watering, curing, conveyance of all materials to worksite, payment of royalty, taxes etc all complete as per specification and direction of the Engineer in charge	sqm	83.82	243.32		20,394.75	
467	NSR	Supplying all materials, labour, T&P and providing,fitting and fixing 100mm x 100mm x 100mm SW Tee in wall including filling the recess with cement concrete (1:3:6) with 12mm size h.g chips all complete including watering, curing, conveyance of all materials to worksite, payment of royalty all complete as per specification and direction of the Engineer in charge.	Each	2.00		506.57		1,013.15
468	NSR	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	10.00		337.83		3,378.34
469	OSR AR 2006 Item no-14 SR 2022	Filling in foundation and plinth with excavated materials, moorum including watering and ramming as directed by the Engineer in charge	cum	10.80	204.258		2,205.99	
		TOTAL OSR & NSR AMOUNT					4,44,34,291.26	1,43,63,428.22
		TOTAL BOQ AMOUNT						5,87,97,719.48