

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.								
Subject :- Schedule-B								
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
			General Notes : All the works are to be carried out as per latest specifications of CPWD/MES/Indian Railways/State PWD, and relevant IS Codes unless otherwise specified in BOQ. Measurements of all the items shall be taken as per detailed specifications of the various items mentioned in CPWD specifications. In the absence of such specifications mode of Measurements as per IS 1200 with its latest revisions will be followed. Unless otherwise specified, the rates of various items will be for all heights, leads and lifts. It is deemed that tenderer has understood the intent of the item of work to be completed and cost(s) of item quoted, is worked out to include the cost of all labour & materials and to complete the item of work irrespective of completeness of the description.					
			Note: A) In case any specific method of measurement for any item is not mentioned, IS 1200 shall be followed for the purpose of measurement and certification. B) This BOQ shall be read in conjunction with Technical Specification.					
			General Notes: All levels mentioned in tender/GFC drawing are with respect to existing ground level at site or, for trenches and pits, the bottom of mass excavation, whichever deeper. At the time of handing over the site to the Contractor, if in case, any variation, discrepancy between Good For Construction(GFC)/tender drawings and existing site conditions is noticed, the same should be brought to the notice of Engineer-in-Charge/ Architects/Consultants in writing.					
			Levels are to be taken before and after excavation and as directed by Engineer-in-charge for calculating the depth of excavation.					
			Rate shall include marking the areas to be excavated, setting up the reference datum bench mark, establishing interim and final excavation levels with appropriate survey instruments, carrying out excavation in the specified type of soil, inclusive of de-watering to keep the area clear from water ponding at all times to the required depth and profile . Rate shall include for breaking and removing old foundations with or without reinforcement, underground tanks, floor concrete, sewers, pipelines etc. and carting away the debris. Rate shall be inclusive of shoring, strutting, removal of slurry, dewatering, including stacking of good excavated earth anywhere within site premises and backfilling in layers of 300mm to achieve 95 % MDD as approved by Engineer in charge, include all other incidental charges. (Note: Working space and extra space for side slope soil stabilization will not be measured and paid for). Payments will be made only on the volume of earth excavated as per GFC drawings.					
			Contractor shall use the latest mechanical means of excavation suitable to achieve the required excavation level within the agreed time period. All such equipment mobilized on the site shall be in perfectly working condition, well maintained, ensuring no down time during the entire agreed working period. A list of all such equipment, manpower, machinery and the proposed infrastructure that the contractor is going to mobilize for the work shall be submitted to the Engineer in charge before start of work for his approval.					
			The final approved founding strata shall be left absolutely clean by removing loose, slushy soil, murrum and weathered rock with necessary tools & tackles, cleaning the surface by wire brush and carting away debris, dewatering to keep site dry at all times etc. all complete to the approval of Engineer in charge.					
			Contractor's rates shall include fees for all statutory sanction and royalties for any kind of disposal.					
			Quoted rate shall include for cost of materials, labour, loading and unloading charges, hire of machinery, tools & plants, shoring, strutting, dewatering, removal of slurry, fuel charges, transportation, scaffolding and all other incidental charges etc., with all leads and lifts as specified in respective items of work, complete and as directed by the Engineer-in-charge at all levels.					
			If the Excavation for foundation is done to a depth greater than that shown in the drawings or as required by the Engineer -In- Charge, the excess depth shall be made good by the contractor at his own cost with the concrete of the mix used for levelling / bed concrete for foundations. No Payment shall be made to contractor for the cost of Additional Concrete required to fill up the extra depth of excavation in such cases.					
	1		Pile Work					
1.001	20.2.3	26104	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by percussion drilling using direct mud circulation (DMC) or Bailer and chisel technique by tripod and mechanical winch machine all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured up to bottom of pile cap). (a) : 450 mm dia piles	Metre	2,147.82	5,60,66,612	1,665.35	4,34,72,296
1.002	20.2.4	199	(b) :500 mm dia piles	Metre	2,519.90	5,01,208	1,953.85	3,88,621
1.003	20.2.5	51259	(c) : 600 mm dia piles	Metre	3,444.81	17,65,77,656	2,671.00	13,69,12,789
1.004	20.2A.1	7293	Boring, providing and installation bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. by Crawler mounted, telescopic boom hydraulic piling Rig all complete , including removal of excavated earth with all its lifts and leads (length of pile for payment shall be measured up to bottom of pile cap). 600 mm dia piles	Metre	4,680.68	3,41,36,173	3,629.25	2,64,68,120

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1.005	20.6.1.1	80	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer-in-charge. Note: 1. Initial and Routine Load Test shall not be carried out by Dynamic method of testing. Note: 2. Testing agency shall submit the design of loading platform for the approval of Engineer-in-charge. (a) : Initial test (Test Load 2.5 times the safe capacity)	Per test	49,733.50	39,78,680	38,561.80	30,84,944
1.006	20.6.1.2	33	(b) :Routine test (Test Load 1.5 times the safe capacity)	Per test	22,469.96	7,41,509	17,422.50	5,74,943
1.007	20.6.2.1	6	Single pile above 50 tonne and up to 100 tonne capacity (a) : Initial test (Test Load 2.5 times the safe capacity)	Per test	60,369.28	3,62,216	46,808.45	2,80,851
1.008	20.6.2.2	1	(b) :Routine test (Test Load 1.5 times the safe capacity)	Per test	34,453.93	34,454	26,714.50	26,715
1.009	20.8.1	17	Lateral load testing of single pile in accordance with IS Code of practice IS : 2911 (Part IV) for determining safe allowable lateral load on pile : (a) :Up to 50 tonne capacity pile	Per test	22,469.96	3,81,989	17,422.50	2,96,183
1.010	20.8.2	1	(b) : Above 50 tonne and up to 100 tonne capacity pile	Per test	35,352.73	35,353	27,411.40	27,411
1.011	20.9	17	Integrity testing of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.	Per test	961.48	16,345	745.50	12,674
Subtotal of Pile Work						27,28,32,194		21,15,45,546
Subtotal of NON DSR Work						0		0
2	0	0	Earth work					
2.001	2.1.1	3616	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be levelled and neatly dressed : All kinds of soil	100 Sqm	6,505.29	2,35,23,137	5,044.00	1,82,39,104
2.002	2.6.1	217257	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 Sqm on plan) including disposal of excavated earth lead up to 50m and lift up to 1.5m, disposed soil to be levelled and neatly dressed : All kinds of soil	Cum	200.68	4,35,98,817	155.60	3,38,05,159
2.003	2.8.1	8935	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 Sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	Cum	203.13	18,14,959	157.50	14,07,263
2.004	2.3.1	83668	Banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead up to 50 m and lift up to 1.5 m : All kinds of soil.	Cum	311.72	2,60,81,212	241.70	2,02,22,556
2.005	2.4	5000	Deduct for not rolling with power roller of minimum 8 tonnes for banking excavated earth in layers not exceeding 20 cm in depth.	Cum	-3.87	- 19,346	-3.00	- 15,000
2.006	MR 2.001	3110	Supplying and Filling the approved good quality earth brought from outside the premises in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up including all lead and lift.	Cum	874.50	27,19,697	787.84	24,50,177
2.007	2.25	42039	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, compacting each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	Cum	144.96	60,94,112	112.40	47,25,184
2.008	2.26.1	91060	Extra for every additional lift of 1.5 m or part thereof in excavation (DSR Item Nos. 2.1.1, 2.6.1, 2.8.1, 2.3.1) / banking excavated or stacked materials. All kinds of soil.	Cum	59.65	54,31,642	46.25	42,11,525
2.009	2.27	9792	Supplying and filling in plinth with Clean Coarse sand under floors, including watering, ramming, compacting and dressing complete.	Cum	1,173.96	1,14,95,393	910.25	89,13,168
2.010	2.36	1000	Deduct for disposed soil not levelled and neatly dressed.	Cum	-43.79	- 43,786	-33.95	- 33,950
2.011	1.1.2	112730	Carriage of Earth with mechanical Transport (a) up to 1 km Including Loading, Unloading and stacking	Cum	128.25	1,44,57,472	99.44	1,12,09,871
2.012	MR 2.002	500	Carriage of Lime, Murrum, Building rubbish By Mechanical Transport- Disposal up to 5 Km. lead outside campus premises	Cum	278.58	1,39,291	250.98	1,25,488
2.013	2.31	239	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	100 Sqm	827.99	1,97,890	642.00	1,53,438
2.014	2.33.1	15	Felling trees of the girth (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and stacking of serviceable material and disposal of unserviceable material. (a) : Beyond 30 cm girth up to and including 60 cm girth	Nos	253.69	3,805	196.70	2,951
2.015	2.33.2	50	(b) : Beyond 60 cm girth up to and including 120 cm girth	Nos	1,123.47	56,173	871.10	43,555
2.016	2.33.3	23	(c) : Beyond 120 cm girth up to and including 240 cm girth	Nos	5,196.30	1,19,515	4,029.05	92,668
2.017	2.33.4	1	(d) : Above 240 cm girth	Nos	10,421.43	10,421	8,080.45	8,080
2.018	MR 2.003	21988	Providing and Laying Separation Membrane of impermeable plastic sheeting 125 micron thick.	Sqm	26.75	5,88,214	24.10	5,29,923
2.019	MR 2.004	63	Providing & Laying HDPE made empty cement bags and stitching these in periphery so as to make a flexible barricade up to an height of 4 Metre above ground level and erecting with 50 to 60 mm diameter bamboos in frame work of 2400 mm X 1330 mm size including embedding of 600 mm lower part of vertical bamboos in ground as per direction of Engineer in charge	Sqm	226.05	14,128	203.65	12,728

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2.020	MR 2.005	3	Providing & Laying HDPE made empty cement bags and filling with clod free available excavated earth and stitching the bags manually and placing these filled up bags in form of toe wall to protect the stacked earth as per direction of Engineer-in-charge.(Volume of filled up bags shall be measured for payment purposes)	Cum	1,782.45	5,347	1,605.81	4,817
2.021	MR 2.006	30	Providing & Laying barricading with three rows of enamel painted G.I. Sheets of about 750 mm wide nailed or bolted with wooden poles 80 mm to 100 mm dia spaced 2.4 meter centre to centre. The poles will be embedded in mobile iron pedestal rings suitably framed for giving stable support as per direction of the Engineer-in-charge. All management (including watch and ward) of barricades shall be the full responsibility of the contractor. The barricades shall be removed only after completion of the work or part of the work. After completion of work barricading will be contractor's property	Sqm	248.67	7,460	224.03	6,721
2.022	MR 2.007	9	Removing from one location, a tree of girth not more than 60 Cms. Including the roots by excavating earth around the root, lifting the tree along with earth around the roots by suitable equipment, transporting the tree from old location to the new location, making a pit of required diameter and depth in earth at new location, and replanting the tree in to the pit, back filling the soil around the roots of the tree, including necessary manure, watering the tree for required time till the roots gets hold in the earth at new location complete as directed by Engineer In charge.	Nos	1,004.32	9,039	904.79	8,143
Subtotal of Earth Work						13,63,04,594		10,61,23,568
Subtotal of NON DSR Work						34,83,177		31,37,997
3		Concrete work						10,29,85,571
3.001	4.1.10	100	Providing and laying in position cement concrete of specified grade excluding the cost of cantering and shuttering - All work up to plinth level : (a) : 1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	Cum	5,163.99	5,16,399	4,004.00	4,00,400
3.002	4.1.5	783	(b) :1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Cum	6,234.84	48,81,724	4,834.30	37,85,136
3.003	4.1.8	7430	(c) : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	Cum	5,547.23	4,12,15,933	4,301.15	3,19,57,545
3.004	MR 3.001	211	Providing and laying in position Plum cement concrete of specified grade 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) using plums of 160 mm and more of reasonable size up to a maximum of 20% by volume of Concrete excluding the cost of cantering and shuttering. The Plums should be evenly distributed in concrete and minimum space between two plums should be not less than 200 mm and the plums should not be closure than 150 mm from the surface.	Cum	4,411.80	9,31,993	3,974.59	8,39,633
Subtotal of Concrete Work						4,75,46,049		3,69,82,714
Subtotal of NON DSR Work						9,31,993		8,39,633
4		Reinforced Cement Concrete work						
4.001	5.9.1	2463	Cantering and shuttering including strutting, propping etc. and removal of form for (a) : Foundations, footings, bases of columns, etc. for mass concrete	Sqm	253.36	6,24,081	196.45	4,83,893
4.002	5.9.2	25387	(b) : Walls (any thickness) including attached pilasters, buttresses, plinth and string courses & kerb etc.	Sqm	465.33	1,18,13,257	360.80	91,59,630
4.003	5.9.3	46854	(c) : Suspended floors, roofs, landings, balconies and access platform	Sqm	518.01	2,42,70,916	401.65	1,88,18,909
4.004	5.9.4	88	(d) : Shelves (Cast in situ)	Sqm	518.01	45,585	401.65	35,345
4.005	5.9.5	57549	(e) : Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	428.38	2,46,52,659	332.15	1,91,14,900
4.006	5.9.6	23477	(f) : Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	584.69	1,37,26,757	453.35	1,06,43,298
4.007	5.9.7	4683	(g) : Stairs, (excluding landings) except spiral-staircases	Sqm	510.27	23,89,610	395.65	18,52,829
4.008	5.9.9	897	(h) : Arches, domes, vaults up to 6 m span	Sqm	1,375.22	12,33,569	1,066.30	9,56,471
4.009	5.9.14	350	(i) : Extra for shuttering in circular work	Sqm	103.60	36,261	80.33	28,116
4.010	5.9.15	293	(j) : Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like	Sqm	253.36	74,109	196.45	57,462
4.011	5.9.19	130	(k) : Weather shade, Chajjas, corbels etc., including edges	Sqm	634.99	82,548	492.35	64,006
4.012	MR 4.001	1480	(L) : Extra for Shuttering (over DSR items Nos. 5.9.2, 5.9.3, 5.9.4, 5.9.5, & 5.9.6)in sloping slabs, beams, columns and walls for chhatris, gopurams, etc. including the edge beams etc. at all levels.	Sqm	259.01	3,83,329	233.34	3,45,341
4.013	MR 4.002	2214	Extra for staging for additional height in shuttering where ever required with adequate bracing, propping etc., including cost of de-shuttering and decentring at all levels over a height of 3.6 m, for every additional height of 3.6 m or part thereof for Suspended roofs, sloping slabs, slabs in curved shape, landing, beams and balconies etc. (only Plan area of staging to be measured and paid for. Staging for vertical walls, columns pardsies etc. will not be paid for in any case.)	Sqm	362.61	8,02,959	326.67	7,23,387
4.014	5.22.6	3908940	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to plinth level. Thermo-Mechanically Treated bars TMT 500 D	Kg	87.83	34,33,19,006	68.10	26,61,98,814
4.015	5.22A.6	1737547	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars TMT 500 D	Kg	87.83	15,26,07,333	68.10	11,83,26,951
4.016	5.33.1	15709	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of cantering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content considered in this item is @ 330 kg/cum. Excess/ less cement used as per design mix is payable/recoverable separately. All works up to plinth level	Cum	8,120.20	12,75,60,243	6,296.15	9,89,06,220
4.017	5.33.2	15659	(b) : All works above plinth level up to floor V level	Cum	9,046.73	14,16,62,718	7,014.55	10,98,40,838

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4.018	5.34.1	1583	Extra for providing richer mixes at all floor levels. Note:- Excess/less cement over the specified cement content used is payable /recoverable separately. Providing M-30 grade concrete instead of M-25 grade BMC /RMC. (Note:- Cement content considered in M-30 is @ 340 kg/cum)	Cum	98.66	1,56,183	76.50	1,21,100
4.019	5.35	79	Add for using extra cement in the items of design mix over and above the specified cement content therein.	Quintal	957.93	75,820	742.75	58,789
4.020	MR 4.003	5208	Extra Labour for leaving hollow spaces in Burnt brick Masonry/CSE block masonry for RCC Vertical mullians & horizontal transoms (ties) of required size, providing reinforcement bar for mullians & transoms (ties) as per structural drawing corners bars and concreting the same with M25 concrete grade concrete including removal of mortar, dust, etc. from the hollow spaces before doing the concreting complete as per drawing & instruction of engineer- in- charge. Reinforcement concrete & Burnt brick Masonry/CSE block masonry will be paid separately in their respective items.	Metre	228.89	11,92,080	206.21	10,73,946
4.021	5.42.1	1000	Providing and fixing tapered / parallel threaded couplers conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification", to reinforcement bars including threading, enlargement at connection by forging, protecting the prepared reinforcement bars and related operations as required to complete the works per direction of Engineer-in-Charge. (The length of the bars in which coupler is to be provided should not be less than 4 metre, no deduction for labour and binding wire saved for not providing lap length shall be made). (a) : Coupler for 16 mm diameter reinforcement bar	Nos	157.80	1,57,796	122.35	1,22,350
4.022	5.42.2	750	(b) :Coupler for 20 mm diameter reinforcement bar	Nos	214.67	1,61,004	166.45	1,24,838
4.023	5.42.3	500	(c) :Coupler for 25 mm diameter reinforcement bar	Nos	296.89	1,48,446	230.20	1,15,100
4.024	5.43.2	649	Providing and fixing in position Stainless steel Grade 304 plate-1.0 mm thick as per design for expansion joints. (a) : 300 mm wide.	Metre	1,074.33	6,96,701	833.00	5,40,201
4.025	MR 4.004	15	Providing & fixing premoulded compressible filler board of approved make conforming to as per manufacturer specification, including cost of primer in expansion joints as per drawing, specification and sample approved and as directed by engineer in charge.	Cum	81,225.48	12,11,519	73,176.11	10,91,458
4.026	MR 4.005	3891	Providing and laying polysulphide sealant for expansion joints of approved make Including surface preparation, applying primer, backer rod, sealant, curing make as per drawing, manufacturer specification to give water tightness & as directed by engineer in charge.	Sq.Cm x Rmt.	140.42	5,46,391	126.51	4,92,244
4.027	MR 4.006	130	Providing and fixing expansion joint flexible strip with polyurethane sealant of approved make flush mounted expansion /seismic joint system with +/-25mm joint movement design as per the joint manufacturer specification complete as per drawing, specification and sample approved and as directed by engineer in charge.	Sqm	15,418.50	19,99,779	13,890.54	18,01,603
4.028	MR 4.007	126	Making core cutting for fixing pipe 50 mm to 100 mm dia in RCC slab/wall/beam up to 350 mm wide (length of Core cutting) for drainage line fittings as per detailed drawing and as directed by engineer in charge.	Nos	1,556.79	1,96,155	1,402.51	1,76,716
4.029	MR 4.008	186	Making core cutting for fixing pipe 150 mm dia in RCC slab/wall/beam up to 350 mm wide (length of Core cutting) for drainage line fittings as per detailed drawing and as directed by engineer in charge.	Nos	1,895.22	3,52,511	1,707.41	3,17,577
4.030	MR 4.009	66	Making core cutting for fixing pipe 230 mm dia in RCC slab/wall/beam up to 350 mm wide (Length of Core cutting) for drainage line fittings as per detailed drawing and as directed by engineer in charge.	Nos	2,978.20	1,96,561	2,683.07	1,77,082
			Subtotal of Reinforced Cement Concrete Work			85,23,75,888		66,17,69,413
			Subtotal of NON DSR Work			68,81,284		61,99,355
	5		Brick work					
5.001	6.1.2	13212	Brick work with common burnt clay F.P.S. (non modular) bricks of size 230 mm x 110 mm x 70 mm class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	6,032.29	7,96,98,634	4,677.25	6,17,95,827
5.002	MR 5.001	703	Extra rate over DSR item no. 6.1.2 for Brick work with burnt clay (non modular) bricks of 230 mm x 110 mm x 50 mm size instead of size 230 mm x 110 mm x 70 mm of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	2,019.95	14,20,025	1,819.77	12,79,302
5.003	6.4.2	2282	Brick work with common burnt clay F.P.S. (non modular) bricks of size 230 mm x 110 mm x 70 mm class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	6,998.15	1,59,69,789	5,426.15	1,23,82,474
5.004	MR 5.002	879	Extra rate over DSR item no. 6.4.2 for Brick work with burnt clay (non modular) bricks of 230 mm x 110 mm x 50 mm size instead of size 230 mm x 110 mm x 70 mm and class designation 7.5 in superstructure above plinth level for all levels in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	2,194.64	19,29,089	1,977.15	17,37,918
5.005	6.13.2	5185	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	858.69	44,52,299	665.80	34,52,173
5.006	6.23	62	Honey-comb brick work 10 / 11.4 cm thick with common burnt clay bricks of class designation 7.5 in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand).	Sqm	559.48	34,687	433.80	26,896
5.007	6.44	500	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	Metre	49.20	24,601	38.15	19,075
5.008	6.38	250	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	Cum	8,237.31	20,59,327	6,386.95	15,96,738

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.								
Subject :- Schedule-B								
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
5.009	MR 5.003	14453574	Manufacturing the Compressed Stabilized Earth (CSE) Blocks of size 230 mm x 110 mm x 100 mm, from the selected soil available from excavation at site within premises including providing and installing, operating and maintaining necessary machinery by the contractor at his own cost for the production of CSE blocks. Rates includes required quantity of Selected soil for the production of CSE blocks will be excavated from the site from the Water bodies and transported to the location of CSE blocks manufacturing facility by the contractor. The contractor shall provide necessary Cement, sand and Surkhi etc. at his cost including the supply, transportation to site, royalties etc. The proportion of materials will be as follows (1) Soil/Earth 30 to 40% by weight (2) Sand 30 to 40% by weight (3) Finely ground surkhi which is obtained by gridding well burnt red brick bats available as wastage from red bricks manufacturing kilns, 30 to 40% (4) Cement 8 to 10% by weight but in no case less than 8%. (5) Hydrated Lime 5% The blocks must be cured with moist air or by covering with water soaked gunny bags over the stake of earth blocks for four weeks. The Blocks are allowed to dry for at least 10 days under the shade. The Cured earth blocks are to be staked neatly at the storage yard which will be covered with Ploythene sheets to retain the moisture inside the Earth blocks. Compressive strength of	Nos	10.98	15,86,56,050	9.89	14,29,33,378
5.010	MR 5.004	40529	Brick work with Compressed Stabilized Earth (CSE) Blocks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand) Rates to include transportation of Compressed Earth blocks from storage yard to the site of work. (Supply of CSE block will be paid separately in relevant items)	Cum	3,632.81	14,72,33,974	3,272.80	13,26,43,220
5.011	MR 5.005	5336	Half brick masonry with Compressed Stabilized Earth (CSE) Blocks of class designation 7.5 in superstructure above plinth level up to floor V level in: Cement mortar 1:4 (1 cement :4 coarse sand) Rates to include transportation of Compressed Earth blocks from storage yard to the site of work. (Supply of CSE block will be paid separately in relevant items)	Sqm	424.93	22,67,427	382.82	20,42,727
5.012	6.5	100	Extra for brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means.	Cum	372.79	37,279	289.05	28,905
5.013	6.14	75	Extra for half brick masonry in superstructure, above floor V level for every four floors or part thereof by mechanical means.	Sqm	33.02	2,476	25.60	1,920
5.014	MR 5.006	15877	Extra rates over DSR item no. 6.4.2 for providing exposed masonry with common burnt clay bricks of size 230 mm x 110 mm x 70 mm including raking horizontal and vertical joints 10 mm wide 12 mm deep to receive pointing complete. The Exposed surface area only of the Brick work will be measured for payment.	Sqm	81.86	12,99,644	73.75	11,70,851
5.015	MR 5.007	4693	Extra rates over MR item no. 5.002 for providing exposed masonry work for Brick masonry with common burnt clay bricks of size 230 mm x 110 mm x 50 mm instead of size 230 mm x 110 mm x 70 mm , including raking horizontal and vertical joints 10 mm wide 12 mm deep to receive pointing complete in cement mortar 1:4 (1 cement : 4 coarse sand). The Exposed surface area only of the Brick work will be measured for payment.	Sqm	13.46	63,179	12.13	56,918
5.016	MR 5.008	60647	Extra rates over MR item no. 5.004 for providing exposed masonry with Compressed Stabilized Earth (CSE) Blocks including raking horizontal and vertical joints 10 mm wide 12 mm deep to receive pointing complete. The Exposed surface area only of the Brick work will be measured for payment.	Sqm	67.50	40,93,568	60.81	36,87,899
			Subtotal of Brick Work			41,92,42,048		36,48,56,220
			Subtotal of NON DSR Work			31,69,62,956		28,55,52,213
	6		Stone work					
6.001	7.1.1	11	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	5,053.21	56,849	3,918.10	44,079
6.002	7.8.1	18	Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and up to floor five level Masonry work (first sort) , in cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	6,788.51	1,18,799	5,263.60	92,113
6.003	7.32.1	100	Stone work, plain in copings, cornices, string courses and plinth courses, up to 75 mm thick in Cement mortar 1:6 (1 cement : 6 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade. - Red Sandstone	Cum	49,330.08	49,33,008	38,249.00	38,24,900
6.004	MR 6.001	781	Providing and fixing wet cladding in (wall lining) any shape at all heights with 18 to 20 mm thick gang saw cut stone with (machine cut edges) of uniform colour and size, backing filled with a grout of average 12 mm thick cement mortar 1:3 (1 cement : 3 coarse sand) mixed with adhesive in proportion as per manufacture's specification, including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade at all levels including cutting, making recesses in stone slab, drilling holes, rubbing, polishing, curing, and scaffolding etc. complete in the required pattern as per drawing and as directed by engineer in charge. (a) : Red Sandstone	Sqm	2,647.62	20,67,792	2,385.24	18,62,876
6.005	MR 6.002	10	(b) : Granite stone	Sqm	5,109.39	51,094	4,603.06	46,031
6.006	MR 6.003	4001	Providing and fixing Jali (Grill) in the openings in Brick/RCC wall. Jali shall be made out of Red Mandana stone of size up to 320 mm x 150 mm x 30 mm thick, Sand Blasted on all the surfaces, two rows of 25 mm NB MS pipes (heavy class with Minimum wall thickness 2.6 mm) and 40 mm NB x 48 mm long Ms pipe sleeves. Jali shall be fixed as per drawings and as directed by the Engineer in charge complete. Set of 2 nos. M.S. Pipes of 25 mm NB shall be fixed horizontally, on vertical jamb of the opening, side by side at 100 mm centre to centre, from one end of opening to the other end with suitable holdfasts or anchor fasteners. Such set of two pipes shall be fixed from top line of opening to bottom line of opening, at 330 mm centre to centre vertically. Stone pieces shall be placed perpendicular to these pipes, vertically between two sets of pipes, in such a way that 320 mm x 30 mm face of the stone shall be visible in elevation. Stone should have two nos. round shaped grooves on each face at top and bottom faces for resting the stone between 25 mm NB MS pipes as shown in the drawing. 40 mm NB x 48 mm long MS pipe sleeves shall slip over the 25 mm NB pipes to act as spacers between two stones, which are vertically resting on the pipes. Horizontal clear space between two adjacent stones in the same level shall be 100 mm. Horizontal clear Space between two adjacent stones in two adjacent upper and lower levels shall be kept 50 mm. MS pipes and Spacers shall be painted with Epoxy Paint over a cost of suitable Primer before fixing of stones.	Sqm	6,967.87	2,78,78,449	6,277.36	2,51,15,720
6.007	7.33.1	8	Providing and fixing stone jali 40 mm thick throughout in cement mortar 1:3 (1 cement : 3 coarse sand), including pointing in white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment, matching the stone shade, jali slab without any chamfers etc. at all levels as directed by engineer in charge. Red sand stone	Cum	12,281.51	98,252	9,522.70	76,182
			Subtotal of Stone Work			3,52,04,243		3,10,61,899
			Subtotal of NON DSR Work			2,99,97,335		2,70,24,626
	7		Marble & Granite Work					

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.								
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Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
7.001	8.2.2.2	932	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels (a) : Granite of any colour and shade Area of slab over 0.50 Sqm	Sqm	5,039.41	46,96,729	3,907.40	36,41,697
7.002	8.3.2	1817	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by engineer in charge. (a) : Granite work	Metre	297.47	5,40,505	230.65	4,19,091
7.003	8.5	1484	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	Nos	498.60	7,39,925	386.60	5,73,714
7.004	MR 7.001	40	Providing and laying Mirror polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer in- Charge. (a) : Granite Stone of approved shade	Sqm	4,411.14	1,76,446	3,974.00	1,58,960
7.005	MR 7.002	60	Providing and fixing 18mm thick gang saw cut, mirror polished, pre moulded and pre polished, machine cut stone for tread and risers of steps, dedo, jambs, lintels, partition, seat, landing, parapet top, shelves, chajja, sill, divider, and similar locations of required size, machine cut edges, approved shade, colour and texture laid over 20mm thick base cement mortar 1:3(1 cement : 3 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing edges give high gloss finish etc. complete at all levels as per detailed drawing and as directed by engineer in charge. (a) : Granite Stone of approved shade	Sqm	5,115.36	3,06,922	4,608.43	2,76,506
7.006	8.12	30	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge : Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	4,184.27	1,25,528	3,244.35	97,331
			Subtotal of Marble & Granite Work			65,86,055		51,67,299
			Subtotal of NON DSR Work			4,83,367		4,35,466
	8		Wood & PVC Work					
8.001	9.1.1	553	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). (a) : Second class teak wood	Cum	1,18,004.38	6,52,56,420	91,496.90	5,05,97,786
8.002	MR 8.001	150	Providing wood work in frames of panelled shutters for doors, window, clerestory windows and other similar frames, and fixed to the Existing wooden frames with approved make Hinges as per detailed drawings and as directed by the Engineer - in - Charge. The various components of Panelled shutter like vertical stiles, Top, Bottom & lock rails and intermediate transoms & mullions, in the shutter shall be measured, only in volume of teakwood used and shall be paid for. The rates shall include all the required materials like, nails, screws, wooden nails, Adhesive Glue etc. and labour for preparation of shutter frame and fixing the same with Door frames complete. Approved quality Hinges, Wooden/ Glass/Ply wood panels including the necessary Teak wood beading, nails & screws etc. for fixing hinges/panels shall be paid under relevant items as the case may be. (a) : Second class teak wood	Cum	1,50,674.75	2,26,01,212	1,35,743.01	2,03,61,452
8.003	9.7.1	1698	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick : (a) : Second class teak wood panels- 25 mm thick	Sqm	2,780.10	47,20,604	2,155.60	36,60,209
8.004	MR 8.002	484	(b) : Marine Ply wood 19 mm thick	Sqm	3,057.32	14,79,743	2,754.34	13,33,102
8.005	9.7.7.2	6960	(c) : Float glass panes 5.0 mm thick glass panes	Sqm	1,814.30	1,26,27,515	1,406.75	97,90,980
8.006	9.7.8	6073	(d) : Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. wire and 1.4 mm wide aperture with matching wood beading	Sqm	2,066.63	1,25,50,642	1,602.40	97,31,375
8.007	9.21.1+9.23 - (9.15.1.1)	6160	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters, lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters : (a) : 35 mm thick excluding ISI marked Stainless Steel butt hinges with necessary screws	Sqm	2,543.50	1,56,68,502	1,972.15	1,21,48,866
8.008	9.22.1	127	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to IS: 2202 (Part I) (a) : On one side only	Sqm	509.31	64,682	394.90	50,152
8.009	9.127	12190	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. (a) :1.0 mm thick on one side only	Sqm	872.36	1,06,34,058	676.40	82,45,316
8.010	MR 8.003	50	Providing and fixing a pair of Stainless Steel Pivots for making the stone jali openable by fixing Pivot by making necessary recesses in stone jali and RCC/stone sill & Lintel and fixing the pivot with necessary S.S. Screws etc. complete as directed by Engineer In Charge.	Sqm	2,065.14	1,03,257	1,860.49	93,025

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Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
8.011	MR 8.004	181	Providing and fixing 5.0 mm thick toughened glass fixed with wooden bedding including the cost of wooden beadings ,glass and necessary cutting finishing for Partitions, doors, windows etc. complete as per drawing and as directed by Engineer-in-charge.	Sqm	2,846.22	5,15,166	2,564.16	4,64,114
8.012	MR 8.005	548	Extra for providing frosted glass panes 5.0 mm thick instead of ordinary float glass panes 5.0 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	Sqm	1,150.24	6,30,330	1,036.25	5,67,865
8.013	MR 8.006	37	Extra rate over DSR Item no 9.7.7.2 for single glazing 5.0 mm thick clear cosmos (ET 125) of approved make having properties like light transmission 28%,external reflection 28%, internal reflection 9%, 28%, solar factor 0.3, shading coefficient 0.34, U value (W/Sqm-k) 3.9 Light instead of 5.0 mm thick sheet float glass as per drawing and as directed by Engineer-in-Charge.	Sqm	1,465.74	54,232	1,320.48	48,858
8.014	MR 8.007	230	Providing & fixing wooden patta 130 mm wide made from 18 mm thick marine plywood conforming to IS: 710 with each side 5 mm thick teakwood beading and fixed to supporting second class teakwood patti 35X 35 mm which is fixed to wall as per drawing and as directed by engineer- in- charge	Metre	892.19	2,05,204	803.78	1,84,869
8.015	MR 8.008	41	Providing wooden louvers of Second class teak wood 10 mm thick and up to 150 mm wide as required including fixing at 50 mm center to centre distance at required location in frames/shutters of door/windows including cutting finishing and beading as per drawing and as directed by engineer-in-charge. Frames will be paid separately in relevant items. Area of Louvers in elevation Excluding the frame will be measured and paid for.	Sqm	3,398.56	1,39,341	3,061.76	1,25,532
8.016	MR 8.009	189	Providing and fixing exterior grade non asbestos cement fibre board of approved make with necessary s.s. screws etc. for the covering of Pipe shafts, Cable shafts etc. complete in pattern with grooves as per drawing and as directed by engineer in-charge. Framing will be paid in relevant items.	Sqm	1,007.79	1,90,573	907.92	1,71,688
8.017	MR 8.010	1702	(a) : 6 mm thick Cement Boards (b) : 8 mm thick Cement Boards	Sqm	1,236.30	21,04,056	1,113.78	18,95,546
8.018	9.84.	309	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	Nos	1,324.79	4,09,360	1,027.20	3,17,405
8.019	MR 8.011	330	Providing & Fixing Zinc Material Combination Finish Door Safety Chain, minimum weight 190 grm. with necessary nickel Plated screws for doors as per drawing and as directed by Engineer-in-charge.	Nos	325.55	1,07,431	293.29	96,785
8.020	MR 8.012	2557	Providing & Fixing S.S. 316 Grade C Shaped Handles in Satin Finish, 10 mm dia and centre to centre minimum 150 mm size, minimum weight 140 grm with necessary screws etc. complete of approved make as per drawing and as directed by engineer-in-charge.	Nos	133.00	3,40,073	119.82	3,06,372
8.021	MR 8.013	33276	Providing & Fixing S.S. 316 Grade Fire resistance BSEN 1634:1:2000 Certified & Mechanically tested BSEN 1935:2002 Satin Finish S.S. 316 Grade 4 ball bearings Hinges approximate size 102mm X 76mm X 3 mm minimum Weight 260 grm of approved make with AISI 316 Grade ball Bearing S.S. Pin, Cap, and with necessary S.S. Self Tapping Phillips Cross Head Screws etc. complete as specified as per drawing and as directed by engineer-in -charge.	Nos	542.88	1,80,65,014	489.08	1,62,74,788
8.022	MR 8.014	17556	Providing & Fixing S.S. 316 Grade Satin Finish Fire resistance BSEN 1634:1:2000 Certified & Mechanically tested BSEN 1935:2002 Hinges without bearings approximate size 76mm X 65mm X 2 mm minimum weight 100 grm of approved make with AISI 316 Grade S.S. Pin, Cap, and with necessary S.S. Self Tapping Phillips Cross Head Screws etc. complete as specified as per drawing and as directed by engineer-in -charge.	Nos	303.85	53,34,469	273.74	48,05,828
8.023	MR 8.015	10174	Providing & Fixing S.S. 304 Grade Stainless Steel Satin Finish Round Tower bolt of overall length (excluding Bracket) 300 mm and inner bolt of dia meter 12mm and outer barrel dia meter 16 mm, minimum weight 430 grm. of approved make with necessary Nickel Plated Screws complete as per specified as per drawing and directed by Engineer in charge.	Nos	655.76	66,71,696	590.77	60,10,537
8.024	MR 8.016	17140	Providing & Fixing S.S. 304 Grade Stainless Steel Satin Finish Round Tower bolt of overall length (excluding Bracket) 100 mm and inner bolt of dia meter 12mm and outer barrel dia meter 16 mm, minimum weight 150 grm of approved make with necessary nickel Plated Screws complete as per specified as per drawing and directed by Engineer in charge.	Nos	255.61	43,81,121	230.28	39,46,956
8.025	MR 8.017	8578	Providing & Fixing AISI S.S. 316 Grade Solid Window Casement stay/adjustor with minimum weight 280 grm of size diameter 14 mm, length 200 mm with necessary fixing screws as specified as per drawing & as directed by engineer-in-charge.	Nos	728.36	62,47,835	656.18	56,28,680
8.026	MR 8.018	24	Providing & Fixing Satin Finish Brass Parliamentary Hinges with the Size of 100 X 75 X 4 mm of approved make with necessary fixing screws as specified as per drawing & as directed by engineer-in-charge.	Nos	872.21	20,933	785.78	18,859
8.027	MR 8.019	5295	Providing & Fixing Fire resistance BSEN 1634:1:2000 Certified & mechanically tested BSEN 1906:2010 Pair of AISI S.S. 316 Grade Satin Finish hollow Pipe or solid design Mortise Handle with the minimum weight 620 grm key hole for Mortise Pin Cylinder, high grade brass bushing for extra fixing strength for intensive use of door with back to back fixing screws system of approved make with both side active mortise handle and spindle, High Quality Stainless Steel Wood Screws (8 PCS.) for minimum door thickness 30 mm as per drawing and as directed by engineer in charge. The Inner and Outer Rose of Mortise handle and Escutcheons must be of AISI 316 grade only.	Pair	1,850.37	97,97,709	1,667.00	88,26,765
8.028	MR 8.020	386	Providing & Fixing Fire resistance BSEN 1634:1:2000 Certified & mechanically tested BSEN 1906:2010 Pair of AISI S.S. 316 Grade Satin Finish hollow Pipe or solid design Mortise Handle with the minimum weight 930 grm with S.S. 316 Grade euro profile escutcheons key hole for Mortise Pin Cylinder, high grade brass bushing for extra fixing strength for intensive use of door with back to back fixing screws system. of approved make with both side active mortise handle and spindle, High Quality Stainless Steel Wood Screws (8 PCS.) for minimum door thickness 30 mm as per drawing and as directed by engineer in charge. The Inner and Outer Rose of Mortise handle and Escutcheons must be of AISI 316 grade only.	Pair	2,476.41	9,55,894	2,231.00	8,61,166
8.029	MR 8.021	958	Providing & Fixing Satin Finish Double Door Lock body , 26 mm brass latch. 52 mm lock with Back Set centre of approximate size 85 X 45 mm, of approved make, minimum Weight 0.880 grm suitable for minimum 30 mm thick Double Door Shutter with necessary fixing screw as specified as per drawing and as per directed by engineer in charge.	Nos	1,589.53	15,22,767	1,432.01	13,71,862

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Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
8.030	MR 8.022	2298	Providing & Fixing Fire resistance BSEN 1634:1:2000 Certified Satin Finish Mortise Lock body approximate size of back set 45 mm X 85 mm, with 52 mm Lock and 26 mm brass latch , Stainless steel main & Strike plate & including back to back fixing feature suitable for minimum door thickness 30 mm Single door shutter with necessary fixing screw as per specified as per directed by engineer in charge.	Nos	788.70	18,12,424	710.54	16,32,814
8.031	MR 8.023	1472	Providing & Fixing Fire resistance BSEN 1634:1:2000 Certified Satin Finish Mortise Latch body with back set approximate size of 45 mm, Stainless Steel main & Strike Plate of approved make suitable for minimum 30 mm thick Single door Shutter with necessary fixing screw as specified as per drawing and as directed by engineer in charge.	Nos	608.29	8,95,405	548.01	8,06,671
8.032	MR 8.024	2134	Providing & Fixing Satin Finish 6 pin Mechanism, high Quality brass body Mortise Pin Cylinder with 5 high accuracy Computerized Dotted keys of approved make one side key one side knob suitable for minimum door thickness 30 mm with necessary Fixing Screw as specified and as per drawing and as per directed by engineer in charge.	Nos	781.43	16,67,564	703.99	15,02,310
8.033	MR 8.025	164	Providing & Fixing Fire resistance BSEN 1634:1:2000 Certified Satin Finish Secure Standard 5 pin Mechanism Mortise Pin Cylinder with both Side Keys, high accuracy Brass keys of approved make suitable for minimum door thickness 30 mm with necessary fixing screw as per specified and as per drawing and as per directed by engineer in charge.	Nos	660.58	1,08,336	595.12	97,600
8.034	MR 8.026	958	Providing & Fixing Fire resistance BSEN 1634:1:2000 Certified Satin Finish Secure Standard 5 pin Mechanism half Mortise Pin Cylinder with high accuracy Brass keys of approved make one side key suitable for minimum door thickness 30 mm with necessary fixing screw as per specified and as per drawing and as per directed by engineer in charge.	Nos	576.92	5,52,693	519.75	4,97,921
8.035	MR 8.027	1472	Providing & Fixing high Quality Zinc Material Satin Finish baby latch/Indicator Bolt inner Only with the size 87 mm of approved make with necessary SS Screw etc. complete as specified as drawing as directed by engineer-in- charge	Nos	429.57	6,32,325	387.00	5,69,662
8.036	MR 8.028	494	Providing & Fixing Satin Finish S.S. Door Magnet length of 75 mm of approved make, minimum Weight 150 grm with necessary nickel plated screw complete, as specified, as per drawing and as directed by engineer in charge.	Nos	206.46	1,01,991	186.00	91,884
8.037	MR 8.029	1758	Providing & Fixing high Quality Zinc Material Door Stopper length of 150 mm including Rubber of approved make minimum Weight 260 grm with necessary Screws etc. complete as specified, as per drawing as directed by engineer-in-charge.	Nos	407.88	7,17,055	367.46	6,45,995
8.038	MR 8.030	8562	Providing & Fixing S.S. 316 Grade C Shaped Handles in Satin Finish, 10 mm dia and centre to centre minimum 100 mm size, minimum weight 94 grm with necessary screws etc. complete of approved make as per drawing and as directed by engineer-in-charge.	Nos	133.00	11,38,718	119.82	10,25,872
8.039	MR 8.031	3444	Providing & Fixing AISI S.S. 316 Grade Satin Finish Wall/Floor mounted Door Stop with the length of 75 mm to 100 mm including Rubber, minimum Weight 150 grm of approved make with necessary SS screws etc. complete as specified as per drawing and as directed by engineer-in-charge.	Nos	407.34	14,02,884	366.97	12,63,860
8.040	MR 8.032	330	Providing & Fixing Zinc Material Door Eye Viewer of Dia. 36mm approved make with wide angle vision and fixing accessories as specified as per drawing as directed by engineer-in-charge.	Nos	200.72	66,236	180.82	59,672
8.041	21.4.1	60	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight up to 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With stainless steel cover plate minimum 1.25 mm thickness	Nos	2,629.72	1,57,783	2,039.00	1,22,340
8.042	MR 8.033	7	Providing & Fixing Brass finish Special Shaped Handles of special design as per drawing in matt Finish made out of 5 mm thick brass plate and having approximate weight 5 kg per pair of handles with necessary brass screws etc. complete of approved make as per drawing and as directed by engineer-in-charge.	Pair	12,094.53	84,662	10,895.97	76,272
8.043	MR 8.034	36	Supply and carpentry of chemically seasoned 2nd class teak wood for creation of trellis & pergola rafters, columns, seat backs, railing tops, playground equipment parts like climbing wall steps, seats of see-saws, swings, etc. to be installed in exterior areas complete with all material, labour, equipment and accessories like screws, nuts, bolts, adhesive, etc.	Cum	1,50,145.65	54,05,243	1,35,266.35	48,69,589
8.044	9.48.2	2450	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings /wooden frames with rawl plugs screws etc.	kg	150.77	3,69,379	116.90	2,86,405
8.045	21.8.1	6718	Filling the gap in between frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Up to 5mm depth and 5 mm width	Metre	114.46	7,68,954	88.75	5,96,223
			Subtotal of Wood & PVC Work			21,92,81,489		18,20,81,823
			Subtotal of NON DSR Work			9,60,53,591		8,65,34,767
	9		Steel work					
9.001	10.6.1	50	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. (a) : 80x1.25 mm M.S. laths with 1.25 mm thick top cover	Sqm	2,762.69	1,38,134	2,142.10	1,07,105
9.002	10.7	5	Providing and fixing ball bearing for rolling shutters.	Nos	566.12	2,831	438.95	2,195
9.003	10.8.1	72	Extra over DSR Item No. 10.6.1 for providing mechanical device chain and crank operation for operating rolling shutters. (a) : Exceeding 10.00 sqm in the area and up to 16.80 sqm in the area	Sqm	934.85	67,309	724.85	52,189
9.004	10.9	9	Extra over DSR item No. 10.6.1 for providing grilled rolling shutters manufactured out of 8 mm dia M.S. bar instead of laths as per design approved by Engineer-in- charge,(area of grill to be measured).	Sqm	404.45	3,640	313.60	2,822

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.												
Subject :- Schedule-B												
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT				
9.005	10.16.1	26505	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type	Kg	132.71	35,17,507	102.90	27,27,365				
9.006	10.25.1	500	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required at all levels.	Kg	97.12	48,558	75.30	37,650				
9.007	10.25.2	41167	(a) : In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete (b) : In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	116.20	47,83,720	90.10	37,09,147				
9.008	MR 9.001	15658	Steel work in built up tubular (round, square or rectangular hollow hot finished welded type tubes etc.) for supporting frame work of Partitions with fixed glazing/ fixed wooden/ plywood panels/ openable glazed doors/windows etc. all as per the detailed drawings and instructions of Engineer In charge , including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Steel sections if required for Architectural aesthetic looks, may be covered with wooden members as per detailed design drawings. Weight of Steel sections only will be measured and paid for. Glazing, wooden/ply wood panels, shutters etc. will be paid separately under relevant items.	Kg	150.07	23,49,803	135.20	21,16,939				
9.009	10.26.1	6105	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. (a) : M.S. tube	Kg	135.03	8,24,374	104.70	6,39,194				
9.010	10.27.3	38016	Providing and fixing carbon steel galvanised (minimum coating 5 micron) dash fastener of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 m dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge. (a) :10 x 120 mm	Nos	111.88	42,53,316	86.75	32,97,888				
9.011	10.27.2	20892	(b) :10 x 80 mm	Nos	91.25	19,06,330	70.75	14,78,109				
9.012	10.28	276	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	798.85	2,20,481	619.40	1,70,954				
9.013	MR 9.002	17540	Providing and fixing stainless steel AISI 316 Grade Stainless Steel Knock Down railing system of approved make with satin finish and loading tested as per International load Testing Criteria with EXOVA Certification (Without any welding, Fabrication and Buffing on site) made of Hollow tubes, channels, plates , special glass holding fixtures etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, on the top of the floor or the side of waist slab with suitable arrangement as per drawing and as directed by engineer in charge. The balustrade would be fixed onto floor/waist slab with casted base plate of S.S 316 with High Strength 2 NOS Anchor fasteners and whenever required, joints to be filled with bushings for extra strength. (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	Kg	1,191.28	2,08,95,066	1,073.23	1,88,24,384				
9.014	MR 9.003	3563	Providing and fixing 12 mm thick toughened glass with chemical itching/providing and fixing of translucent polyester film on glass to give it a look of Frosted glass in the design as per detailed drawing to be fixed with Stainless steel railing in stairs, passages etc. with necessary length and diameter and designs stainless steel nuts etc. including making required size holes for bolts etc. for fixing the glass sheet with railing members complete. Sample of the railing will be prepared by the contractor and got approved by the Architect Before taking up the job at full scale.	Sqm	3,981.89	1,41,87,485	3,587.29	1,27,81,518				
			Subtotal of Steel Work			5,31,98,553		4,59,47,459				
			Subtotal of NON DSR Work			3,74,32,354		3,37,22,842				
	10		Flooring work									
10.001	11.1.2	2035	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks. (a) 1:6 (1cement : 6 coarse sand)	Sqm	812.65	16,53,734	630.10	12,82,254				
10.002	11.3.1	4409	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete as per drawing and as directed by Engineer In Charge. 40 mm thick with 20 mm nominal size stone aggregate	Sqm	455.72	20,09,264	353.35	15,57,920				
10.003	11.26.1	12547	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) (a) 25 mm thick	Sqm	1,472.07	1,84,70,111	1,141.40	1,43,21,146				
10.004	MR 10.001	10963	Extra rate over DSR item no. 11.26.1 for using Red Mandana stone slabs in flooring, in place of Kota stone slabs	Sqm	335.45	36,77,723	302.21	33,13,264				
10.005	MR 10.002	121	Extra rate over DSR item No. 11.26.1 for using Brown Bundi stone slabs in flooring, in place of Kota stone slabs	Sqm	1,126.75	1,36,336	1,015.09	1,22,825				
10.006	11.27	3442	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	1,536.37	52,88,171	1,191.25	41,00,283				
10.007	MR 10.003	3120	Extra rate over DSR item 11.27 for using Sand stone slabs in risers of steps, skirting, dado and pillars, in place of Kota stone slabs	Sqm	634.78	19,80,316	571.87	17,84,068				
10.008	MR 10.004	55	Extra rate over DSR item 11.27 for using Brown Bundi stone slabs in risers of steps, skirting, dado and pillars in place of Kota stone slabs	Sqm	1,972.05	1,08,463	1,776.62	97,714				

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.								
Subject :- Schedule-B								
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
10.009	MR 10.005	5861	Kota stone slab 25 mm thick approved colour, shade & texture with machine cut edges in Kitchen platforms, vanity counters, facia, sills, jams, lintels, partition, seat, landing, parapet top , shelves, chajja and similar locations of required size and in full length, over 20 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) laid to line and level and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete as per drawing and as directed by engineer in charge.	Sqm	2,139.33	1,25,38,595	1,927.32	1,12,96,031
10.010	MR 10.006	4426	Extra rate over MR item no. 10.005 for using Red Mandana stone slabs in Kitchen platforms, vanity counters, facia, sills, jams, lintels, partition, seat, landing, parapet top , shelves, chajja and similar locations, in place of Kota stone slabs	Sqm	577.91	25,57,544	520.64	23,04,093
10.011	MR 10.007	124	Extra rate over MR item no. 10.005 for using Brown Bundi stone slabs in Kitchen platforms, vanity counters, facia, sills, jams, lintels, partition, seat, landing, parapet top , shelves, chajja and similar locations, in place of Kotah stone slabs	Sqm	1,373.58	1,70,325	1,237.46	1,53,446
10.012	MR 10.008	18228	Rough Kota stone slab 25 mm thick approved colour, shade & texture in flooring over 20 mm (average) thick over base of cement mortar 1 : 4 (1 cement : 4 coarse sand) laid to line and level and jointed with grey cement slurry mixed with pigment to match the shade of the slab including cleaning complete as directed by the Engineer-in-charge.	Sqm	1,161.92	2,11,79,722	1,046.77	1,90,80,830
10.013	MR 10.009	16316	Extra rate over MR item no. 10.008 for using Rough Red Mandana stone slab 25 mm thick approved colour, shade & texture in flooring over 20 mm (average) thick over base of cement mortar 1 : 4 (1 cement : 4 coarse sand) laid to line and level and jointed with grey cement slurry mixed with pigment to match the shade of the slab including cleaning in place of Rough kota stone slabs, complete as directed by the Engineer-in-charge.	Sqm	179.03	29,21,063	161.29	26,31,588
10.014	MR 10.010	125	Rough Kota stone slabs 20 mm thick of approved colour, shade & texture in risers of steps, skirting, dado and pillars similar locations of required size with machine cut edges over 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) laid to line and level and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including nosing, rubbing and polishing of Machine cut edges, cleaning complete as per drawing and as directed by engineer in charge.	Sqm	1,620.52	2,02,566	1,459.93	1,82,492
10.015	MR 10.011	88	Rough Kota stone slab 25 mm thick approved colour, shade & texture with machine cut edges in Kitchen platforms, vanity counters, facia, sills, jams, lintels, partition, seat, landing, parapet top , shelves, chajja and similar locations of required size and in full length, over 20 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) laid to line and level and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete as per drawing and as directed by engineer in charge.	Sqm	2,113.10	1,84,896	1,903.69	1,66,573
10.016	8.6	8353	Extra for Mirror polishing over normal polishing of marble work/Granite work/stone work where ever required to give high gloss finish complete.	Sqm	274.51	22,93,020	212.85	17,77,936
10.017	MR 10.012	807	Extra for River-washed finish polishing on marble/Granite/stone where ever required to give rough finish complete as per drawing and as directed by engineer in charge.	Sqm	344.30	2,77,850	310.18	2,50,315
10.018	MR 10.013	4840	Extra for Sand blasted finish/lather finish polishing on marble/Granite/stone where ever required to give rough finish complete as per drawing and as directed by engineer in charge.	Sqm	425.87	20,61,189	383.66	18,56,927
10.019	MR 10.014	391	Extra for other side finish polishing on marble work/Granite work/stone work where ever required to give both side polished finish complete.	Sqm	161.42	63,117	145.43	56,862
10.020	11.31	77	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Rmt	97.76	7,528	75.80	5,837
10.021	11.32	2279	Extra for Kota stone/ sand stone in treads of steps and risers using single length upto 1.05 metre. (in one pease)	Sqm	21.80	49,673	16.90	38,515
10.022	MR 10.015	909	Extra for Kota stone/ Red Mandana/ Sand Stone in treads and risers of steps for using single stone of length of 1.05 metre to 1.50 metre in one pease	Sqm	145.50	1,32,260	131.08	1,19,153
10.023	MR 10.016	4623	Extra for providing 3 nos. grooves of size 5 mm x 5 mm in the treads of steps as per detailed drawings to make the surface of treads non slippery.	Meter	37.34	1,72,639	33.64	1,55,531
10.022	11.36	20697	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	1,079.04	2,23,32,788	836.65	1,73,16,145
10.023	11.37	299	Providing and laying Ceramic glazed tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.	Sqm	1,012.94	3,02,868	785.40	2,34,835
10.024	11.53	186	Providing and fixing Glass mosaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The Glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge:	Sqm	2,260.34	4,20,424	1,752.60	3,25,984
10.025	MR 10.017	186	Extra over DSR item no. 11.53 for providing and fixing 25 mm x25 x4 mm or 50 mm x 50 x4 mm Glass Mosaic /Shon tiles in place of 20 mm x 20 mm x 4mm glass mosaic tiles as per detailed Architectural Design pattern and shade of tiles.	Sqm	22.87	4,253	20.60	3,831
10.025	11.41.2	27917	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. (a) : Size of Tile 600x600 mm	Sqm	1,813.27	5,06,20,957	1,405.95	3,92,49,906
10.026	11.41.3	3104	(b) : Size of Tile 800x800 mm	Sqm	1,964.03	60,96,360	1,522.85	47,26,926

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.								
Subject :- Schedule-B								
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
10.027	11.46.2	4797	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, tread & riser of steps, dado and pillar over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete as per drawing and as directed by engineer in charge. (a) : Size of Tile 600x600 mm	Sqm	1,825.45	87,56,703	1,415.40	67,89,674
10.028	11.46.3	536	(b) : Size of Tile 800x800 mm	Sqm	1,978.99	10,60,741	1,534.45	8,22,465
10.029	MR 10.018	11592	Providing and laying Terracotta colored vitrified floor tiles of Endura Make or equivalent in different sizes (having thickness 12 mm to 15 mm as specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. (a) : 300x300 mm	Sqm	1,641.02	1,90,22,652	1,478.39	1,71,37,524
10.030	MR 10.019	1582	Providing and laying Terracotta colored Vitrified tiles of Endura make or equivalent in different sizes (having thickness 12 mm to 15 mm as specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved colours and shade, in skirting, tread & riser of steps, dado and pillar over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete as per drawing and as directed by engineer in charge. (a) : 300x300 mm	Sqm	1,667.48	26,37,956	1,502.24	23,76,537
10.031	MR 10.020	50	Providing and laying Glazed/Mat finished Terracotta clay tiles of approved make in flooring in different sizes (having thickness 12 mm to 15 mm as specified by the manufacturer) with water absorption less than 1%, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. (a) 300x300 mm	Sqm	4,339.88	2,16,994	3,909.80	1,95,490
10.032	MR 10.021	50	(b) 200x200 mm	Sqm	4,055.24	2,02,762	3,653.37	1,82,669
10.033	MR 10.022	28	Providing and laying Glazed/Mat finished Terracotta clay tiles of approved make in skirting, tread & riser of steps, dado and pillar in different sizes (having thickness 12 mm to 15 mm as specified by the manufacturer), with water absorption less than 0.08% , of approved colours and shade, in skirting, tread & riser of steps, dado and pillar over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete as per drawing and as directed by engineer in charge. (a) 300x300 mm	Sqm	4,384.28	1,22,760	3,949.81	1,10,595
10.034	MR 10.023	28	(b) 200x200 mm	Sqm	4,096.02	1,14,688	3,690.10	1,03,323
10.035	MR 10.024	50	Providing and laying Terracotta clay tiles of approved make in flooring laid on 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc. for terraces & exteriors areas complete. , as per architectural drawing as directed by engineer-in-charge. (a) 300x300 mm	Sqm	1,285.87	64,294	1,158.44	57,922
10.036	MR 10.025	50	Providing and laying 40 mm thick Terracotta clay paver of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (a) : 200x200 mm	Sqm	1,461.95	73,097	1,317.07	65,853
10.037	MR 10.026	30	(b) : 100x200 mm	Sqm	1,496.04	44,881	1,347.79	40,434
10.038	MR 10.027	20	(c) : 100x100 mm	Sqm	1,550.90	31,018	1,397.21	27,944
10.039	MR 10.028	70	Providing and laying 50 mm thick sand blasted Red Mandana stone pavers of approved size, design & shape, laid in required pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge. (a) : 200x200 mm	Sqm	1,949.73	1,36,481	1,756.51	1,22,956
10.040	MR 10.029	30	(b) : 100x100 mm	Sqm	1,983.82	59,515	1,787.23	53,617
10.041	MR 10.030	8703	Providing and laying 60mm-70mm thick Red Mandana cobble stone of 100mm x 100mm size, design & shape, laid in required pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with Cement etc. all complete as per the direction of Engineer-in-charge.	Sqm	1,644.60	1,43,12,994	1,481.63	1,28,94,589
10.042	MR 10.031	299	Extra Rates for Item Nos. DSR 11.37, for leaving gap between two tiles in flooring (Ceramic Glazed Tiles) , of size 3 mm width and depth up to 6 mm and Grouting the joints of flooring & wall tiles having joints of 3 mm width, using Cementations grout mix of desired shade including filling /grouting and finishing complete as per drawing and as directed by Engineer-in-charge.	Sqm	226.33	67,671	203.90	60,965
10.043	MR 10.032	20697	Extra Rates for Item Nos. DSR item 11.36 for leaving gap between two tiles in skirting and wall dado (Ceramic Glazed Wall Tiles) of size 3 mm width and depth up to 6 mm and Grouting the joints of flooring & wall tiles having joints of 3 mm width, using Cementations grout mix of desired shade including filling /grouting and finishing complete as per drawing and as directed by Engineer-in-charge.	Sqm	173.08	35,82,187	155.93	32,27,195
10.044	MR 10.033	5329	Extra Rates for Item Nos. DSR 11.41.2, 11.41.3, 11.46.2, 11.46.3, for leaving gap between two tiles in flooring, skirting and wall dado of size 3 mm width and depth up to 6 mm and Grouting the joints of flooring & wall tiles having joints of 3 mm width, using Cementations grout mix of desired shade including filling /grouting and finishing complete as per drawing and as directed by Engineer-in-charge.	Sqm	119.83	6,38,569	107.95	5,75,288

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.								
Subject :- Schedule-B								
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
10.045	MR 10.034	13474	Extra over item no. MR 10.018, MR 10.019, MR 10.020, MR 10.021, MR 10.022, MR 10.023, MR 10.024 for providing and filling 5 mm x 5mm groove in flooring with cementations grout to match the shade of the slab, including rubbing and cleaning complete as per drawing as directed by engineer in charge.	Sqm	180.55	24,32,694	162.66	21,91,616
10.046	MR 10.035	8485	Extra over item no. MR 10.008, or MR 10.009, for providing and filling 12 mm x 5 mm groove in flooring with cementations grout to match the shade of the slab, including rubbing and cleaning complete as per drawing as directed by engineer in charge.	Sqm	256.20	21,73,897	230.82	19,58,466
10.047	MR 10.036	738	Crazy pattern in terracotta clay tiles pieces for flooring for terraces & exteriors areas of approved shape & size 20 mm thick in flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 20 mm thick cement mortar 1:6 (1 cement : 6 course sand),. including rubbing and polishing complete, as per architectural drawing as directed by engineer-in-charge. (use of wastage of terracotta clay tiles at site for crazy terracotta clay tiles flooring)	Sqm	1,091.95	8,05,860	983.74	7,26,000
10.048	MR 10.037	18	Crazy pattern in Red Mandana Sand stone pieces of approved shape & size 20 mm thick in flooring , including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 20 mm thick cement mortar 1:6 (1 cement : 6 course sand),. including rubbing and polishing complete, as per architectural drawing as directed by engineer-in-charge. (use of wastage of Red Mandana sand stone at site shall be used for crazy sand stone flooring)	Sqm	1,091.95	19,655	983.74	17,707
10.049	MR 10.038	634	Crazy pattern in Kota stone pieces of approved shape & size 20 mm thick in flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black, chocolate, grey, yellow or green marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 20 mm thick cement mortar 1:6 (1 cement : 6 course sand),. including rubbing and polishing complete, as per architectural drawing as directed by engineer-in-charge. (use of wastage of kotah stone at site for crazy kotah stone flooring)	Sqm	923.54	5,85,523	832.02	5,27,498
10.050	MR 10.039	13609	Providing and laying China Mosaic Top finish with all sides of vata using pieces of white glazed tiles of size (max) 4 to 8 sq.cm over 20 mm base of cement mortar 1:4 (1 cement : 4 Fine sand) with cement slurry @ 2.75 Kg of cement per Sqm, mixing of water proofing material including filling up the joints with grey cement rounding of edges and corners all complete as per the direction of Engineer in charge.	Sqm	733.04	99,75,893	660.39	89,87,291
10.051	11.33.1	19	Providing and fixing 25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete. (a) second class teak wood	Sqm	4,298.41	81,670	3,332.85	63,324
10.052	MR 10.040	241	Providing and laying approved Light weight filler material wastage of AAC Blocks up to 100mm size in required thickness to level or in slope by using insulating material in 1:5:10 prop (1 cement: 5: Sand: 10 wastage of AAC Block material) as per approved manufacturers specification including scaffolding, compacting, finishing ,curing etc. complete as per drawing as directed by engineer in charge.	Cum	4,156.24	10,01,653	3,744.36	9,02,390
Subtotal of Flooring Work						22,61,36,559		18,87,32,561
Subtotal of NON DSR Work						10,66,92,548		9,61,19,412
11 Roofing Work								
11.001	12.21.1	3250	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase	Metre	184.56	5,99,811	143.10	4,65,075
11.002	12.22	531	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Nos	240.72	1,27,825	186.65	99,111
11.003	MR 11.001	2169	Providing and fixing false ceiling grid made out of anodised aluminium (with 15 micron anodic coating) T-sections 35 x15x1.5 mm size main runners, cross runners 23.5x19x1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats and dash fastener. The suspenders shall be placed 600 x 1200 mm centre to centre including fixing to the frame with C.P brass screws and applying a priming coat of zinc chromate yellow primer (a) :8mm thick non asbestos fibre cement board - moisture resistant board	Sqm	997.96	21,64,577	899.06	19,50,070
11.004	MR 11.002	845	Providing and fixing 75 mm diameter and 60 cm long rain water spout in cement mortar 1:4 (1 cement : 4 fine sand) PVC pipe 4 Kg/cm 2	Nos	123.44	1,04,305	111.21	93,968
11.005	MR 11.003	1006	Providing and fixing extruded polystyrene insulation board of approved make having density 36kg/m3, K value 0.028 at 25 deg, green, pink or blue in colored by spot application over slab surfaces as per manufacturer specifications and as directed by engineer-in-charge.	Cum	16,157.82	1,62,54,764	14,556.59	1,46,43,932

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.								
Subject :- Schedule-B								
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
11.006	MR 11.004	30	Providing and laying of 10 mm thick Polycarbonate Multiwall sheet as per drawing and as directed by engineer in charge having density of 1.2 g/m3 and 66 Mpa Yield stress. The sheet Should have linear thermal expansion of 0.000065 /K & thermal conductivity 0.20 w (m-k). Sheet shall be remain stable between - 40C to 120C. Length & width of the sheet should be as per detailed drawings & design. polycarbonate sheet should be available with co-extruded UV barrier applied on it. Poly carbonate sheet shall not remove any toxic fumes and hence pose no hazard to human life in case of fire. The sheet shall be fixed with 3mm thick Aluminium flat on the longitudinal joint & applied with a layer of EPDM rubber over the sheet. The joint between sheet & the Aluminium Joint shall be fully filled with RTV silicon sealant of approved make to avoid water leakage from the joint complete as per drawing and as directed by engineer in charge. The sheet shall be fixed to the structure with help of SDST screws.(Structural steel should be paid in relevant item)	Sqm	2,124.71	63,741	1,914.15	57,425
11.007	MR 11.005	1582	Providing & Fixing true horizontal level suspended Metal False ceiling comprising of GI Clip-In of approved make with double pip self-leveling feature and special tabs to allow removal of tile to enable plenum access with standard perforated (2.5mm diameter – 16% open area) visual consisting of 600X600 clip in tiles of 0.5mm thickness with bevel edge in Global white (Polyster Paint) color precoated with 25 microns paint thickness, with primer coat at the rear side with Light Reflectance > 60% and suitable for Green Building application, with Recycled content of 25%. Tiles would have Soundtex fleece hot pressed at the back of the perforated panel to achieve an NRC of upto 0.7 and fire performance of Class 1 as per BS 476 part 7 To comprise 3000mm long GI 'C' channels spaced at 1200mm center securely fixed to the structural soffit by support clamp & approved 6mm dia threaded rod for rigid suspension. The last hanger at the end of each C channel should not be greater than 600mm from the adjacent wall. Use a C-channel connector for splicing two pieces of C-channels. 4000mm Dp-12 GI Main carriers (spring tee bars) shall be spaced at 600mm centers in a direction perpendicular to the C-channels and shall be secured at every intersection with C channel using a dp-12 hanger. Use Dp-12 connector to splice two pieces of Dp-12 main carriers. Tiles should be clipped in between two Dp-12 carriers (spring tee bars) from below.	Sqm	2,025.11	32,03,729	1,824.43	28,86,242
			Subtotal of Roofing Work			2,25,18,752		2,01,95,822
			Subtotal of NON DSR Work			2,17,91,116		1,96,31,636
	12		Finishing work					
12.001	13.4.1	114966	Providing and laying plaster (a) : 12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)	Sqm	222.22	2,55,47,384	172.30	1,98,08,642
12.002	13.5.1	8441	(b) : 15 mm cement plaster on rough side of single or half brick wall of mix : 1:4 (1 cement: 4 coarse sand)	Sqm	258.01	21,77,831	200.05	16,88,622
12.003	13.12	11514	(C) : 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) finished rough with sponge.	Sqm	333.91	38,44,590	258.90	29,80,975
12.004	13.79	15816	Extra for addition of synthetic Polyester triangular fibre of length 6 mm, effective diameter 10-40 microns and specific gravity of 1.34 to 1.40 in cement plaster/mortar by using 125 gms. of synthetic Polyester triangular fibre for 50 Kgs. cement used in cement mortar as per directions of Engineer-in-Charge.	Per Bag of 50 Kg of cement	74.87	11,84,106	58.05	9,18,119
12.005	MR 12.001	60440	Pointing on brick work or brick flooring on non Modular bricks with cement mortar 1:3 (1 cement : 3 fine sand) as per directions of Engineer-in-Charge. (a) : Flush / Ruled/ Struck or weathered pointing on bricks of size 230 mm x 110 mm x 100 mm	Sqm	107.07	64,71,356	96.46	58,30,050
12.006	13.31.1	15807	Pointing on brick work or brick flooring on non Modular bricks with cement mortar 1:3 (1 cement : 3 fine sand): (a) : Flush / Ruled/ Struck or weathered pointing on bricks of size 230 mm x 110 mm x 75mm	Sqm	137.16	21,68,097	106.35	16,81,074
12.007	MR 12.002	4623	Extra rate over above DSR item 13.31.1 for Pointing on brick work or brick flooring on non Modular bricks with cement mortar 1:3 (1 cement : 3 fine sand) as per directions of Engineer-in-Charge. (a) : Flush / Ruled/ Struck or weathered pointing on bricks of size 230 mm x 110 mm x 50 mm instead of size 230 mm x 110 mm x 75 mm	Sqm	35.64	1,64,754	32.11	1,48,427
12.008	13.31.2	204	(b) : Raised and cut pointing	Sqm	222.41	45,260	172.45	35,094
12.009	13.33.1	30	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) as per directions of Engineer-in-Charge.: (a) : Flush/ Ruled pointing	Sqm	197.13	5,914	152.85	4,586
12.010	13.33.2	15	(b) : Raised and cut pointing	Sqm	356.86	5,353	276.70	4,151
12.011	13.37.1	1798	White washing with lime to give an even shade : New work (three or more coats)	Sqm	20.89	37,566	16.20	29,128
12.012	13.8	114670	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	115.62	1,32,58,422	89.65	1,02,80,166
12.013	13.41.1	4860	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thin able priming coat with cement primer	Sqm	115.69	5,62,238	89.70	4,35,942
12.014	13.85.3	4860	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content (a) : With water thin able cement primer on wall surface having VOC content less than 50 grams/liter.	Sqm	46.24	2,24,707	35.85	1,74,231
12.015	13.44.1	8875	Finishing walls with water proofing cement paint of required shade : New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	74.61	6,62,161	57.85	5,13,419
12.016	13.83.2	114670	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats	Sqm	97.18	1,11,43,582	75.35	86,40,385
12.017	13.84.2	100	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats	Sqm	92.34	9,234	71.60	7,160
12.018	13.46.1	5686	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 litre/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	Sqm	116.07	6,59,996	90.00	5,11,740
12.019	13.52.1	2447	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On steel work	Sqm	150.32	3,67,822	116.55	2,85,198
12.020	14.61	7086	Painting (one or more coats) with black Japan paint of approved brand and manufacture to give an even shade.	Sqm	54.17	3,83,833	42.00	2,97,612

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12.021	MR 12.003	61058	Providing and applying Melamine polishing with including preparation of surface and staining to the approved colour and shade as per the manufacturers specifications including scaffolding, curing, cleaning the surfaces and other incidental work to be done etc. complete at all floors for any height as directed by engineer in charge.	Sqm	541.14	3,30,40,757	487.51	2,97,66,448
12.022	MR 12.004	100	Providing and applying low pigmented textured wall finish with marble chips and minerals aggregate, giving Natural plast/ Random star effect of approved shade of approved make, finishing with i) 1st coat of Low VOC cement primer 0.80 Lt/10 Sqm ii) 2nd coat of stone finish highly dense smooth appearance with trowel @ 2.2 Kg/Sqm and iii) 3rd coat of stone finish by gun spraying, coverage 1.1 Kg/Sqm, Overall minimum 1.50 mm thickness as per manufacturer's specification including scaffolding, curing, cleaning the surfaces and other incidental work to be done etc. complete at all levels as directed by engineer in charge.	Sqm	842.34	84,234	758.86	75,886
12.023	MR 12.005	109011	Providing and applying breathable, non-reactive, antifungal, and water repellent Silane/ Siloxane chemical as approved by Engineer-in-charge, of approved make, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical :12 Part of Turpentine oil), on the existing stone masonry surface or Stone cladding or RCC surfaces with two or more coats to give uniform application of chemical on the surface, including scaffolding, curing, cleaning the surfaces and other incidental work to be done etc. complete at all levels as directed by engineer in charge.	Sqm	116.49	1,26,98,694	104.95	1,14,40,265
12.024	MR 12.006	79328	Extra for expose shuttering over ordinary shuttering for exposed concrete elements using special sized of approved quality steel plates formwork / 12 mm waterproof plywood formwork / wood grain finish formwork with definite pattern as per approved drawing, Including providing and fixing necessary sleeves, grooves & Drip moulds for all shapes, at all levels and as directed by engineer in charge. Same kind of shuttering material should be used for standard and residual sizes. (no separate payment for small qty. in Metre)	Sqm	484.23	3,84,12,626	436.24	3,46,05,969
12.025	MR 12.007	64	Decorative stone work in sand stone including etching, carving and finishing with sandblasted finish of maximum size up to 3000mm x 3000mm including supply of stone block, labour & equipment for manual or machine carving as directed and installation on site up to any lead and lift.	Sqm	1,187.75	76,016	1,070.05	68,483
			Subtotal of Finishing Work			15,32,36,532		13,02,31,769
			Subtotal of NON DSR Work			9,09,48,436		8,19,35,528
	13		Water Proofing Work					
13.001	22.4.1	360	Providing and Placing in position suitable PVC water stops conforming to IS:12200 for construction/ expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete : (a) : Serrated with central bulb (225 mm wide, 8-11 mm thick)	Metre	632.22	2,27,598	490.20	1,76,472
13.002	22.6	10278	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: a) after surface preparation, first layer of slurry of cement @ 0.488 Kg/Sqm mixed with water proofing cement compound @ 0.253 Kg/Sqm. b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 Kg/Sqm mixed with water proofing cement compound @ 0.670 Kg/Sqm and coarse sand @ 1.289 Kg/Sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken up to 30 cm on parapet wall and tucked into groove in parapet all around. d) fourth and final layer of brick tiling with cement mortar (which will be paid for separately. For the purpose of measurement the entire treated surface will be measured.	Sqm	503.44	51,74,335	390.35	40,12,017
13.003	MR based on 22.7.1	15216	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc. consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. d)Finishing the surface with joint less cement mortar of mix 1:4 (1cement :4 coarse sand) admixed with water proofing compound confirming to IS 2645 and approved by Engineer - in - Charge including finishing the top surface with boom finish to receive subsequent finishing layer complete. The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineerin-Charge : With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	Sqm	1,356.02	2,06,33,248	1,051.42	1,59,98,375
13.004	22.14.1	611	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	7,184.39	43,89,661	5,570.55	34,03,606
13.005	22.20.1	10972	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be up to -2°C when tested in accordance with ASTM,D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3 mm thick	Sqm	548.58	60,18,995	425.35	46,66,940

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13.006	22.21	22311	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	Sqm	96.53	21,53,786	74.85	16,69,978
Subtotal of Water Proofing Work						3,85,97,623		2,99,27,389
Subtotal of NON DSR Work								
14.0			SANITARY WORK					
14.001	MR 14.001	607	Supply, installation , testing & commissioning white vitreous china extended wall mounting water closet of approved make including Supply, installation , testing & commissioning of dual plate concealed cistern with flushing capacity 2 litre/ 4 litre (Low Flow), cost shall be inclusive of providing and fixing of accessories i.e. wall plate for flushing cistern ,seat cover, and cistern fittings, nuts, bolts and gasket, SS rack bolt /anchor bolts / fasteners for EWC hanging, and providing protection cover over cistern, cutting and making good the walls wherever required complete as per manufacturer recommendation Water closet- as per approved makes mentioned in the basket	each	32,431.29	1,96,85,793	29,217.38	1,77,34,949
14.002	MR 14.002	502	Supply, installation , testing & commissioning white vitreous china extended wall mounting water closet of approved make including Supply, installation , testing & commissioning of dual plate concealed cistern with flushing capacity 2 litre/ 4 litre (Low Flow), cost shall be inclusive of providing and fixing of accessories i.e. wall plate for flushing cistern ,seat cover, and cistern fittings, nuts, bolts and gasket, anchor bolts / fasteners for EWC hanging, and providing protection cover over cistern, cutting and making good the walls wherever required complete as per manufacturer recommendation Water closet- as per approved makes mentioned in the basket	each	29,785.72	1,49,52,431	26,833.98	1,34,70,658
14.003	MR 14.003	520	Supply, installation , testing & commissioning first quality white vitreous china wall mounted with pedestal washbasin, 32 mm CP brass waste and CP brass cast bottle trap and pipe to wall with CP brass flange and rubber adopter for waste connection complete including filling gap between counter and wash basin with approved type poly sulphide sealant, cutting and making good the walls wherever required as per manufacturer recommendation Wash Basin-as per approved makes mentioned in the basket	each	7,237.35	37,63,422	6,520.14	33,90,471
14.004	MR 14.004	87	Supply, installation , testing & commissioning first quality white vitreous china under rim counter top washbasins, 32 mm CP brass waste and CP brass cast bottle trap and pipe to wall with CP brass flange and rubber adopter for waste connection complete including filling gap between counter and wash basin with approved type poly sulphide sealant, cutting and making good the walls wherever required as per manufacturer recommendation Wash Basin-as per approved makes mentioned in the basket	each	6,833.17	5,94,485	6,156.01	5,35,572
14.005	MR 14.005	502	Supply, installation , testing & commissioning first quality white vitreous china wall mounted washbasin with 32 mm CP brass waste and CP brass cast bottle trap and pipe to wall with CP brass flange and rubber adopter for waste connection complete including filling gap between counter and wash basin with approved type poly sulphide sealant, cutting and making good the walls wherever required as per manufacturer recommendation Wash Basin-as per approved makes mentioned in the basket	each	5,378.10	26,99,807	4,845.14	24,32,259
14.006	MR 14.006	243	Supply, installation , testing & commissioning Stainless Steel AISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets, bottle trap, waste coupling and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required. Kitchen sink with drain board -as per approved makes mentioned in the basket	each	17,443.89	42,38,864	15,715.21	38,18,797
14.007	MR 14.007	243	Providing, Fixing of CP Brass wall mounted sink mixer with wall flange, extended operating lever, swinging spout complete with all accessories as per approved specifications and making good the walls wherever required. Sink mounted sink tap-as per approved makes mentioned in the basket	each	3,145.76	7,64,421	2,834.02	6,88,667
14.008	MR 14.008	1109	Providing, Fixing of CP Brass floor Mounted washbasin mixer with concealed & wall flange, extended operating lever, complete with all accessories as per approved specifications and making good the walls wherever required. Washbasin Mixer -as per approved makes mentioned in the basket	each	6,772.50	75,10,704	6,101.35	67,66,400
14.009	MR 14.009	1109	Supply, installation , testing & commissioning of C.P. brass dual coat robe hook with all accessories as per approved specifications and making good the walls wherever required. Robe Hook-as per approved makes mentioned in the basket	each	796.25	8,83,047	717.35	7,95,538
14.010	MR 14.010	2218	Supply, installation , testing & commissioning of C.P Braided Copper connection 450 mm long including nuts and washers and making connection to fixtures and fittings complete as per manufacturer recommendation Jas per approved makes mentioned in the basket	each	517.03	11,46,778	465.79	10,33,133
14.011	MR 14.011	1109	Supply, installation, testing & commissioning of CP finish Health Faucet of approved quality with CP braided flexible pipe 1 m long, wall hooked complete as per manufacturer recommendation. Health Faucet - as per approved makes mentioned in the basket	each	1,976.31	21,91,730	1,780.46	19,74,531
14.012	MR 14.012	1294	Supply, installation , testing & commissioning Heavy class SS grating with Cockroach proof SS strainer of approved design including setting in floor with cement motor to match with floor finish as per architectural requirement suitable for waste and FT. a) Size 100 mm x 100 mm , Make - as per approved makes mentioned in the basket	each	4,298.41	55,62,144	3,872.44	50,10,941
14.013	MR 14.013	1452	Supply, installation , testing & commissioning Heavy class SS grating with Cockroach proof SS strainer of approved design including setting in floor with cement motor to match with floor finish as per architectural requirement suitable for waste and FT. a) Size 100 mm x 100 mm , Make - as per approved makes mentioned in the basket	each	1,167.82	16,95,672	1,052.09	15,27,632
14.014	MR 14.014	2224	Supply, installation , testing & commissioning C.P. brass angle valve with wall flange of approved quality conforming to IS:8931complete as per approved specifications. a) 15mm nominal bore Angle Valve - as per approved makes mentioned in the basket	each	1,597.34	35,52,483	1,439.04	32,00,436
14.015	MR 14.015	1109	Supply, installation , testing & commissioning of C.P Toilet paper roll holder with all accessories as per approved specifications and making good the walls wherever required. Toilet Paper Roll - as per approved makes mentioned in the basket	each	1,759.04	19,50,778	1,584.72	17,57,458

me of Work :- Development Of Permanent Campus Of Nu Rajgir.								
bject :- Schedule-B								
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
14.016	MR 14.016	1110	Supply, installation , testing & commissioning of C.P Towel rod with all accessories as per approved specifications and making good the walls wherever required. Towel Rod - as per approved makes mentioned in the basket	each	2,499.39	27,74,328	2,251.71	24,99,394
14.017	MR 14.017	1107	Supply, installation , testing & commissioning of Soap Dish with all accessories as per approved specifications and making good the walls wherever required. Soap Dish - as per approved makes mentioned in the basket	each	826.06	9,14,451	744.20	8,23,830
14.018	MR 14.018	1109	Supply, installation , testing & commissioning of C.P Towel ring , cost inclusive of CP flange, fasteners, complete as per manufacturer recommendation. Towel Ring - as per approved makes mentioned in the basket	each	1,234.34	13,68,880	1,112.02	12,33,225
14.019	MR 14.019	1185	Supply, installation , testing & commissioning C.P. brass Two way bib tap with wall flange of approved quality conforming to IS:8931 with all accessories as per approved specifications and making good the walls wherever required. a) 15 mm nominal bore. a 15mm nominal bore Two Way Bib Tap - as per approved makes mentioned in the basket	each	2,386.07	28,27,496	2,149.61	25,47,293
14.020	MR 14.020	412	Supply, installation , testing & commissioning of 15mm CP brass single lever concealed bath and shower wall mixer with diverter with 3 way shower head, spout, OH shower with adjustable type arm with wall flange with slip fit connection & hand shower with flexible pipe with bracket. Diverter -as per approved makes mentioned in the basket	each	18,839.63	77,61,928	16,972.64	69,92,728
14.021	MR 14.021	614	Supply, installation , testing & commissioning of 15mm CP Wall Mixer brass ,shower head, OH shower with adjustable type arm with wall flange with slip fit connection & hand shower with flexible pipe with bracket. as per approved makes mentioned in the basket	each	10,786.11	66,22,671	9,717.22	59,66,370
14.022	17.1.1	83	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required. 17.1.1 White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	4,375.72	3,63,185	3,392.80	2,81,602
14.023	MR 14.022	377	Supply, installation , testing & commissioning C.P. brass bib tap with wall flange of approved quality conforming to IS:8931 a) 15 mm nominal bore. A) 15mm nominal bore Bib Tap - as per approved makes mentioned in the basket	each	1,460.12	5,50,466	1,315.43	4,95,915
14.024	MR 14.023	1109	Supply, installation , testing & commissioning of Soap Dispenser with all accessories as required and making good the walls wherever required. Soap Dispenser - as per approved makes mentioned in the basket	each	3,369.75	37,37,055	3,035.81	33,66,716
14.025	MR 14.024	25	Providing and Fixing 2 Nos. CP support arms and backrest of 35 mm dia to be mounted on the track (vertically and laterally) for handicap toilet complete as required. Model : as per approved makes mentioned in the basket	each	4,749.65	1,18,741	4,278.97	1,06,974
14.026	MR 14.025	25	Providing and Fixing Grab Bar 600mm long for handicap toilet. Model - as per approved makes mentioned in the basket	each	2,341.98	58,549	2,109.89	52,747
			Subtotal of Sanitary work			9,82,90,309		8,85,04,237
			Subtotal of NON SOR Sanitary work			9,79,27,124		8,82,22,634
	15		INTERNAL DRAINAGE					
15.001	MR 15.001	3326	Providing, fixing , Testing and Commissioning of Type B Ringfit UPVC SWR pipes for vent, soil, waste, confirming to IS 13592 and Fittings confirming IS 14735 . Cost shall be inclusive of providing and fixing of all fittings (plain or door) e.g. bends, junctions, cowls, offsets, access pieces in pipes, & G.I. clamps spaced at 1.0 m centre to centre for wall and roof, jointing with solvent cement joints including cutting chase or making holes in walls and floors and making good as per specification and directed by Engineer In charge a) 75 mm Outer Dia	metre	408.49	13,58,812	368.01	12,24,155
15.002	MR 15.002	12635	b) 110mm Outer dia	metre	502.41	63,47,825	452.62	57,18,761
15.003	MR 15.003	947	Supply, installation , testing & commissioning in position SWR PVC P trap of self cleaning design of following sizes. Making proper connection with Cutting chase / hole in floors /slabs and bringing the same in proper condition in cement concrete 1:2:4 mix complete as per specifications. including cost of cutting and making good the walls and floors after installation of P traps wherever required. a) 100mm inlet and 75mm outlet	each	474.99	4,49,818	427.92	4,05,242
15.004	MR 15.004	819	b) 100mm inlet and 100 mm outlet	each	451.14	3,69,485	406.43	3,32,870
15.005	MR 15.005	1471	Supply, installation , testing & commissioning PVC saddle for connecting two or three inlet waste connection of 32/40 and 50mm nominal dia , including cutting and chasing as per approved specifications	each	604.78	8,89,629	544.85	8,01,467
15.006	MR 15.006	1538	Supply, installation , testing & commissioning 100mm x 63 mm PVC waste reducing elbow including cutting chases, making holes in the floor / slab, restoring the same after installation complete as per approved specifications and connection to pvc pipes	each	258.22	3,97,147	232.63	3,57,790
15.007	MR 15.007	83	Supply, installation , testing & commissioning upvc floor/ceiling clean out plug with suitable inlet key for opening male threaded joint with UPVC pipe & socket. Including socketed joint complete as per approved specifications. a) For 75 mm dia pipe	each	272.72	22,635	245.69	20,392
15.008	MR 15.008	243	b) For 110 mm dia pipe	each	375.50	91,245	338.28	82,203
15.009	MR 15.009	1158	Supplying, installation , testing & commissioning of uPVC pipes and fittings (For internal drainage & roof drainage) conforming to IS 4985 for drain in wall / floor / open, pressure rating 6 kg/cm2 tested to IS 2556 (XIII), seals to traps as per IS 5329, including all accessories, breaking / chasing walls, making necessary holes in floor, walls etc. as per approved specifications and making good etc., Cement mortar encasing under floor within toilets. a) 32 mm dia OD waste pipe.(8kg/cm2)	metre	97.75	1,13,206	88.06	1,01,987
15.010	MR 15.010	468	b) 40 mm dia OD waste pipe.	metre	107.09	50,063	96.47	45,101
15.011	MR 15.011	2137	c) 63 mm dia OD waste pipe.	metre	207.16	4,42,790	186.63	3,98,910
15.012	MR 15.012	3803	d) 110 mm dia OD waste pipe.	metre	487.56	18,54,223	439.24	16,70,472
15.013	MR 15.013	220	d) 160 mm dia OD waste pipe.	metre	650.23	1,43,051	585.79	1,28,875
15.014	12.44	354	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	each	53.01	18,764	41.10	14,549

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Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
15.015	18.8.1	20786	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR-11 conforming to IS 15778, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. a) 15 mm nominal dia Pipes	metre	348.22	72,38,131	270.00	56,12,220
15.016	18.8.2	3428	b) 20mm nominal dia	metre	382.27	13,10,535	296.40	10,16,148
15.017	18.8.3	14	c) 25mm nominal dia	metre	453.07	6,479	351.30	5,024
15.018	18.7.1	10328	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR -11 , having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall a) 15 mm nominal outer dia	metre	185.27	19,13,434	143.65	14,83,617
15.019	18.7.2	9581	b) 20 mm nominal outer dia	metre	210.61	20,17,849	163.30	15,64,577
15.020	18.7.3	8354	c) 25 mm nominal outer dia	metre	270.19	22,57,201	209.50	17,50,163
15.021	18.7.4	4549	d) 32 mm nominal outer dia	metre	338.36	15,39,178	262.35	11,93,430
15.022	18.7.5	4037	e) 40 mm nominal outer dia	metre	452.04	18,24,898	350.50	14,14,969
15.023	18.7.6	2980	f) 50 mm nominal outer dia	metre	675.94	20,14,291	524.10	15,61,818
15.024	MR 15.014	1413	g) 62.5 mm nominal inner dia pipes (Sch 80)	metre	2,043.34	28,87,240	1,840.85	26,01,117
15.025	MR 15.015	77	h) 75 mm nominal inner dia pipes (Sch 80)	metre	2,905.78	2,23,745	2,617.82	2,01,572
15.026	MR 15.016	7692	Supply, installation , testing & commissioning of Nitrile Rubber Insulation on Hot/ cold water having thermal conductivity .038 W/m ² k 0.212 BTU / (Hr-ft ² -°F/inch) at an average temperature of 30°C ,temperature range of -40°C to 105°C,Density of material shall not be less than 0.06 gm/cm ³ , class O type, complete as per manufacturer recommendation a) 15 mm nominal outer dia Pipes (9mm insulation thickness)	metre	47.73	3,67,122	43.00	3,30,741
15.027	MR 15.017	7099	b)20 mm nominal outer dia Pipes (9mm insulation thickness)	metre	58.43	4,14,797	52.64	3,73,691
15.028	MR 15.018	4600	c) 25 mm nominal outer dia Pipes (9mm insulation thickness)	metre	62.60	2,87,978	56.40	2,59,440
15.029	MR 15.019	181	d) 32 mm nominal outer dia Pipes (13mm insulation thickness)	metre	116.88	21,156	105.30	19,059
15.030	MR 15.020	357	e) 40 mm nominal outer dia Pipes (13mm insulation thickness)	metre	164.69	58,795	148.37	52,968
15.031	MR 15.021	1072	f) 50 mm nominal outer dia Pipes (13mm insulation thickness)	metre	187.27	2,00,758	168.72	1,80,863
15.032	MR 15.022	1675	g) 62.5 mm nominal outer dia Pipes (13mm insulation thickness)	metre	220.48	3,69,300	198.63	3,32,703
15.033	MR 15.023	7692	Providing and fixing proprietary polyshield outer mechanical protection over nitrile rubber insulation comprising of wrapping with poly glass tape helically wound and subsequently applying 2 coats of polyshield material (resin & hardener) as per manufacturers specification a) 15 mm nominal outer dia Pipes	metre	31.97	2,45,892	28.80	2,21,524
15.034	MR 15.024	7099	b)20 mm nominal outer dia Pipes	metre	38.33	2,72,127	34.53	2,45,159
15.035	MR 15.025	4600	c) 25 mm nominal outer dia Pipes	metre	44.70	2,05,616	40.27	1,85,239
15.036	MR 15.026	181	d) 32 mm nominal outer dia Pipes	metre	53.59	9,699	48.28	8,738
15.037	MR 15.027	357	e) 40 mm nominal outer dia Pipes	metre	63.77	22,767	57.45	20,511
15.038	MR 15.028	1072	f) 50 mm nominal outer dia Pipes	metre	76.48	81,989	68.90	73,864
15.039	MR 15.029	1675	g) 62.5 mm nominal outer dia Pipes	metre	95.58	1,60,096	86.11	1,44,231
15.040	MR 15.030	2811	Supplying & fixing full way lever operated forged brass ball valve of brass body with forged brass hard chrome plated steel ball tested to a pressure not less than 25 Kg / sqcm with threaded joints complete with nuts, bolts, male threaded adaptor, washers union etc. a) 15 mm nominal dia	each	901.82	25,35,002	812.45	22,83,786
15.041	MR 15.031	2183	b) 20 mm nominal dia	each	1,210.26	26,41,995	1,090.32	23,80,176
15.042	MR 15.032	137	c) 25 mm nominal dia	each	1,889.08	2,58,804	1,701.88	2,33,157
15.043	MR 15.033	144	d) 32 mm nominal dia	each	3,155.81	4,54,437	2,843.07	4,09,403
15.044	MR 15.034	144	e) 40 mm nominal dia	each	4,051.95	5,83,481	3,650.41	5,25,659
15.045	MR 15.035	55	f) 50 mm nominal dia	each	6,620.69	3,64,138	5,964.58	3,28,052
15.046	MR 15.036	64	Supply, Installation, Testing and commissioning of slim seal type C.I. Butterfly valve (Body : Grey Cast Iron, shaft : SS, Disc : SG Iron (Rilson coated), Liner : HT - EPDM) of approved make with PN 10 rating flange dimensions shall be conforming to IS 6392, washer, nuts & bolts. Rated to temperature of 85 Deg C and tested to a pressure not less than 15 Kg/Sq.cm. a) 65mm nominal dia	each	5,526.98	3,53,726	4,979.26	3,18,672
15.047	MR 15.037	26	b) 80mm nominal dia.	each	5,951.12	1,54,729	5,361.37	1,39,396
15.048	MR 15.038	11	c) 100mm nominal dia.	each	8,510.83	93,619	7,667.41	84,342
15.049	MR 15.039	1	c) 150mm nominal dia.	each	11,399.76	11,400	10,270.05	10,270
15.050	MR 15.040	73	Providing & fixing gun metal / Bronze non - return valve of approved make with union / flange, washer, nuts & bolts. Rated to temperature of 85 Deg C and tested to a pressure not less than 15 Kg/Sq.cm. a) 15mm nominal dia	each	1,244.83	90,872	1,121.47	81,867
15.051	MR 15.041	4	b) 20 mm nominal dia	each	1,334.48	5,338	1,202.24	4,809
15.052	18.19.1.1	97	c) 25 mm nominal dia	each	575.34	55,808	446.10	43,272
15.053	DSR EnM 2014 16.7.3.6	4	NON RETURN VALVE with dual plate of CI body SS plates vulcanized NBR seal flanged end & PN 16 pressure rating a) 65mm dia	each	3,045.00	12,180	2,361.00	9,444

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Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
15.054	MR 15.042	105	Supply, installation , testing & commissioning Gun metal float valve with cast brass lever arm and plastic ball of adequate size conforming to IS 1703 of approved quality complete as per specifications and as directed by Engineer - in - Charge.	each	2,621.17	2,75,223	2,361.41	2,47,948
15.055	MR 15.043	105	a) 32 mm nominal dia b)40 mm nominal dia	each	3,503.03	3,67,818	3,155.88	3,31,367
			Subtotal of Internal Plumbing work			4,67,58,339		3,95,87,782
			Subtotal of NON SOR Interval Plumbing work			2,65,49,591		2,39,18,551
	16.0		EXTERNAL PLUMBING WORK					
			EXTERNAL PLUMBING WORKS					
16.001	DSR 2014 2.8.1	3353	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 m. All kinds of soil	cum.	203.13	6,81,154	157.50	5,28,145
16.002	DSR 2014 2.10.1.2	5521	Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including compacting each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed within a lead of 50 m. All kinds of soil (a) Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	268.65	14,83,197	208.30	11,50,024
16.003	MR- 16.001 .	4100	Sewer Drainage - Providing and fixing of uPVC SDR pipes as Under ground Sewerage Pipes as per IS 15328-2003 for underground non pressure applications , placing in trench , jointing the pipes with solvent cement as per manufacturer's specifications complete as per specifications and as directed by the Engineer - in - Charge. Make of the pipe: Supreme/Finolex SN4 (SDR 41, Stiffness Class 4KN/m2). PCC for bedding, haunching or all round the pipe, excavation and backfilling shall be payable separately under relevant head, a) 160 mm nominal dia	metre	1,195.15	49,00,109	1,076.71	44,14,513
16.004	MR- 16.002.	674	b) 200 mm nominal dia	metre	1,431.78	9,65,020	1,289.89	8,69,387
16.005	MR- 16.003 .	697	c) 250 mm nominal dia	metre	2,258.64	15,74,270	2,034.81	14,18,262
16.006	MR- 16.004 .	50	d) 315 mm nominal dia	metre	3,235.82	1,61,791	2,915.16	1,45,758
16.007	DSR 2014 19.6.2	5200	STORM DRAINAGE - Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete: a)150mm RCC Pipe	metre	449.21	23,35,869	348.30	18,11,160
16.008	DSR 2014 19.6.3	1805	b) 250mm dia R.C.C. pipe	metre	604.36	10,90,866	468.60	8,45,823
16.009	DSR 2014 19.6.4	276	c) 300mm dia R.C.C. pipe	metre	653.04	1,80,240	506.35	1,39,753
16.010	DSR 2014 19.1.1	305	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete: a) 100mm dia.	metre	266.39	81,249	206.55	62,998
16.011	DSR 2014 19.2.1	9300	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand :10 graded stone aggregate 40 mm nominal size) all-round. including bed concrete as per standard design. a) 150mm nominal dia	metre	934.65	86,92,265	724.70	67,39,710
16.012	DSR 2014 19.2.3	674	b) 200mm nominal dia.	metre	1,089.61	7,34,398	844.85	5,69,429
16.013	DSR 2014 19.2.4	697	c) 250mm dia nominal dia.	metre	1,260.05	8,78,252	977.00	6,80,969
16.014	DSR 2014 19.3.4	1805	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand :10 graded stone aggregate 40 mm nominal size) up to haunches of pipes including bed concrete as per standard design. a) 250mm nominal dia	metre	805.55	14,54,022	624.60	11,27,403
16.015	DSR 2014 19.3.5	276	b) 300mm nominal dia	metre	929.49	2,56,540	720.70	1,98,913
16.016	DSR 2014 19.4.2.1	305	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design 150 x 100 mm size P type With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	each	2,056.25	6,27,156	1,594.35	4,86,277
16.017	DSR 2014 19.30.1.1	347	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 455x610 mm and 45 cm deep for single pipe line With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	6,051.38	20,99,829	4,692.05	16,28,141
16.018	DSR 2014 19.31.1.1	67	Extra for depth beyond 45 cm of brick masonry chamber : 19.31.1 For 455x610 mm size With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Rmt.	5,061.66	3,39,764	3,924.65	2,63,442

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16.019	DSR 2014 19.9.1.1	164	Sewer Manhole - Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design. 0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S.12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cantering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	11,270.19	18,48,311	8,738.55	14,33,122
16.020	DSR 2014 19.10.1	57	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 mt With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	6,245.29	3,58,479	4,842.40	2,77,954
16.021	DSR 2014 19.13.1.1	44	Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design a 2.30 m deep with SFRC Cover and frame (heavy duty HD- 20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cantering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	45,109.18	19,84,804	34,976.25	15,38,955
16.022	DSR 2014 19.14.1	33	Extra depth for circular type manhole 1.52 m internal dia (at bottom) beyond 2.30 m :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	19,143.09	6,31,722	14,842.95	4,89,817
16.023	DSR 2014 19.16	1393	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS: 1786, having minimum cross section as 23 mm x 25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	each	401.87	5,59,810	311.60	4,34,059
16.024	DSR 2014 19.9.1.1	72	Storm Chamber - Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design. 0.91 m deep with S.F.R.C. grating and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S.12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including cantering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	11,270.19	8,11,453	8,738.55	6,29,176
16.025	DSR 2014 19.10.1	18	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m a) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	6,245.29	1,12,415	4,842.40	87,163
16.026	DSR 2014 19.27.1	457	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design : a With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	5,104.02	23,32,539	3,957.50	18,08,578
16.027	DSR 2014 19.28.1	69	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with pre-cast R.C.C. vertical grating complete as per standard design : a With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	5,686.26	3,89,793	4,408.95	3,02,234
16.028	DSR 2014 19.30.1.1	40	Storm Chamber - Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. Grating with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design: Inside dimensions 455x610 mm and 45 cm deep for single pipe line With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	6,051.38	2,42,055	4,692.05	1,87,682
16.029	DSR 2014 19.31.1.1	10	Extra for depth beyond 45 cm of brick masonry chamber : For 455x610 mm size With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	5,061.66	50,617	3,924.65	39,247

me of Work :- Development Of Permanent Campus Of Nu Rajgir.								
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Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
16.030	MR- 16.005 .	3	Constructing Disilting chamber (roof water disilting) with coarse sand, aggregate & nelton mesh, chamber will be constructed (as shown in drawing) of brick work with bricks of class 75 with cement mortar 1:5 (1 cement:5 fine sand) plastering internal face with cement mortar 1:3 (1 cement: 3 fine sand and rough plaster on outer face with a floating coat of neat cement. R.C.C top slab with medium duty HD -20 SFRC manhole cover and frame of 600 mm dia. The weight of cover & frame not be less than182 Kg as per standard design. Including excavation, dewatering, refilling, watering, ramming and removing the surplus excavated material complete as per approved specifications and indicated tender drawing. (All sizes are clear internal sizes). a Size 2000 x 2000 x 1500 mm deep	each	25,714.50	77,143	23,166.21	69,499
16.031	DSR 2014 19.7.1	347	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	10,971.55	38,07,129	8,507.00	29,51,929
16.032	DSR 2014 19.8.1.1	60	Extra for depth for manholes : Size 90x80 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	metre	7,271.64	4,36,298	5,638.20	3,38,292
16.033	DSR 2014 18.9.10	3360	DOMESTIC WATER - Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. External work a) 150 mm nominal inner dia Pipes Schedule 80	metre	4,418.87	1,48,47,388	3,426.25	1,15,12,200
16.034	18.9.5	1418	b) 40 mm nominal outer dia Pipes SDR 11	metre	452.04	6,40,997	350.50	4,97,009
16.035	MR- 16.006 .	50	Providing and fixing G.I. pipes B Class (Medium duty), confirming to IS 1239 Part 1 with G.I. fittings as per IS 1879 Part 1 to X , including painting of pipes, excavation, maintaining top of pipe 1m below from finish levels, backfilling complete as per specifications and directed by Engineer - in - Charge. Excavation, painting and backfilling shall be paid separately under relevant head External work a) 32 mm nominal inner dia Pipes	metre	546.32	27,316	492.18	24,609
16.036	MR- 16.007 .	50	b)40 mm nominal inner dia Pipes	metre	552.66	27,633	497.89	24,895
16.037	MR- 16.008 .	50	c)50 mm nominal inner dia Pipes	metre	753.61	37,681	678.93	33,946
16.038	MR- 16.009 .	80	d)65 mm nominal inner dia Pipes	metre	949.99	76,000	855.85	68,468
16.039	MR- 16.010 .	150	e)80 mm nominal inner dia Pipes	metre	1,157.29	1,73,593	1,042.60	1,56,390
16.040	MR- 16.011 .	150	f)100 mm nominal inner dia Pipes	metre	1,888.27	2,83,241	1,701.15	2,55,172
16.041	MR- 16.012 .	50	g)150 mm nominal inner dia Pipes	metre	2,972.75	1,48,637	2,678.15	1,33,908
16.042	DSR 2014 18.40.4	50	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality a) 32 mm nominal inner dia Pipes	metre	13.41	671	10.40	520
16.043	DSR 2014 18.40.5	50	b)40 mm nominal inner dia Pipes	metre	15.28	764	11.85	593
16.044	DSR 2014 18.40.6	50	c)50 mm nominal inner dia Pipes	metre	18.25	912	14.15	708
16.045	DSR 2014 18.40.7	80	d)65 mm nominal inner dia Pipes	metre	22.51	1,800	17.45	1,396
16.046	DSR 2014 18.40.8	150	e)80 mm nominal inner dia Pipes	metre	26.12	3,917	20.25	3,038
16.047	MR- 16.013 .	150	f)100 mm nominal inner dia Pipes	metre	59.64	8,946	53.73	8,060
16.048	MR- 16.014 .	50	g)150 mm nominal inner dia Pipes	metre	74.34	3,717	66.97	3,349
16.049	DSR 2014 18.9.5	3470	DRINKING WATER DISTRIBUTION -Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR 11, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. a) 32 mm nominal outer dia Pipes	metre	452.04	15,68,589	350.50	12,16,235
16.050	DSR 2014 18.9.2	1418	b) 20 mm nominal outer dia Pipes	metre	210.61	2,98,644	163.30	2,31,559
16.051	DSR 2014 18.9.6	250	c) 32 mm nominal outer dia Pipes	metre	675.94	1,68,984	524.10	1,31,025
16.052	DSR 2014 18.9.8	3360	FLUSHING WATER DISTRIBUTION - Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge. a) 80 mm nominal inner dia Pipes Schedule 80	metre	2,645.52	88,88,932	2,051.25	68,92,200
16.053	18.9.4	1445	b) 32 mm nominal outer dia Pipes SDR 11	metre	338.36	4,88,923	262.35	3,79,096
16.054	18.9.5	250	c) 40 mm nominal outer dia Pipes SDR 11	metre	452.04	1,13,011	350.50	87,625
16.055	18.9.7	1400	c) 62.5 mm nominal dia Pipes SCH 80	metre	1,886.01	26,40,408	1,462.35	20,47,290
16.056	MR- 16.015 .	2	Constructing Grease Trap of size as mentioned below of 1200 liquid depth in brick work of class 75 with cement mortar (1:6), inside plastering 16 mm thick with cement mortar 1:3 with floating coat of neat cement and rough plaster on outside. Including aluminium bucket as per detail to collect the grease. RCC top slab with 2 nos. 600 x 600 mm dia medium duty hinged type cover with epoxy coating, double seal manhole covers with frame (weight of covers & weight of frame 75 Kg), necessary 150 mm thick foundation concrete (1:2:4). 2000mm x 1500mm as per detailed drawings and specifications.	Lot	66,139.29	1,32,279	59,584.95	1,19,170

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Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
16.057	MR 16.016	15	Supply, Installation, Testing and commissioning of slim seal type C.I. Butterfly valve (Body : Grey Cast Iron, shaft : SS, Disc : SG Iron (Rilson coated), Liner : HT - EPDM) of approved make with PN 10 rating flange dimensions shall be conforming to IS 6392, washer, nuts & bolts. Rated to temperature of 85 Deg C and tested to a pressure not less than 15 Kg/Sq.cm.	each	5,526.98	82,905	4,979.26	74,689
16.058	MR 16.017	13	a) 65mm nominal dia.	each	5,951.12	77,365	5,361.37	69,698
16.059	MR 16.018	12	b) 80mm nominal dia.	each	8,510.83	1,02,130	7,667.41	92,009
16.060	MR 16.019	12	c) 100mm nominal dia.	each	11,399.76	1,36,797	10,270.05	1,23,241
			c) 150mm nominal dia.	each				
			Subtotal of External Plumbing work			7,31,60,739		5,78,55,907
			Subtotal of NON SOR External Plumbing work			89,96,573		81,05,021
	17.0		PUMPS, TREATMENT SYSTEM & EQUIPMENTS					
17.001	MR- 17.001 .	1	STP HOSTEL- Design , Construction, Testing and Commissioning of Sewage Treatment plant of 42 cum per day capacity including settler, Anaerobic baffle Reactor + Anaerobic Filter & plant gravel filter (DEWAT Technology), and Polishing/finishing pond. The cost shall be inclusive of design, detailed engineering, submission and approval of drawings, testing and commissioning of complete system in all respect along with establishing the guarantee outlet quality parameters The work should be completed as specified in Technical specification.	Lot	48,67,128.00	48,67,128	43,84,800.00	43,84,800
17.002	MR- 17.002 .	1	STP FACULTY HOUSING- Design , Construction, Testing and Commissioning of Sewage Treatment plant of 76 cum per day capacity including settler, Anaerobic baffle Reactor + Anaerobic Filter & plant gravel filter (DEWAT Technology), and Polishing/finishing pond. The cost shall be inclusive of design, detailed engineering, submission and approval of drawings, testing and commissioning of complete system in all respect along with establishing the guarantee outlet quality parameters The work should be completed as specified in Technical specification.	Lot	63,60,744.00	63,60,744	57,30,400.00	57,30,400
17.003	MR- 17.003 .	1	Sewage Water Transfer Pump- Submersible Centrifugal pump - Supply, installation , testing & commissioning of submersible pumps for suitable rating, with non-clog free flow open impeller, mechanical seal, suitable for operation on 415 volts + 5% -15%, 50 C/s , speed 960/1440R&M including oil chamber, guide wire/ guide pipes for lifting & lowering of pump, mechanical seal, electrical control panels fabricated from 14 gauge CRCA sheet volt meter ammeter with selector switch, TPMPCB, 5 VA CL : CTs, phase indicating lamps protected by 2 amp SP MCB, DOL starter, necessary wiring, cable alleys, earthing, interlocking with Automatic float type level controller, provision of high level alarm, sequence timer, potential free contact to starter , S.S. galvanized lifting chain, duck foot bend with following specifications: (a) Set of Total 2 nos. of Pumps (Both operating in cyclic operation) (b) Necessary cables from pump set to control panel including termination as required (panel shall be located in flushing water treatment plant room , cost of cable and termination shall be paid separately under relevant head).-- 1 Set (b) Electrical switch panel having all necessary accessories & safety devices of standard specifications. Panel shall be compatible for integration with Building Management / Automation system with adequate potential free contacts etc.--1 Set (c) Automatic water level controller with necessary length of cable up to control panel, complete as required Location : Collection chamber to respective STP inlet , MOC : CI body; SS Impeller & Shaft Solid Handling : 15-20 MM a) Flow rate : 20m3/hr. Head : 10 Mts (Student Hostel)	Set	2,50,527.33	2,50,527	2,25,700.30	2,25,700
17.004	MR- 17.004 .	1	b) Flow rate 30m3/hr. Head 10 M (Faculty Housing)	Set	2,50,278.08	2,50,278	2,25,475.75	2,25,476
17.005	MR- 17.005 .	1	Submersible Centrifugal pump - Supply, installation, testing and commissioning of continuous duty submersible centrifugal non-clogging pumps complete with 3 phase motor with all necessary protection and mechanical seal etc. complete with all ancillaries including float type level controllers, electrical control panels fabricated from 14 gauge CRCA sheet volt meter ammeter with selector switch, TPMPCB, 5 VA CL : CTs, phase indicating lamps protected by 2 amp SP MCB, DOL starter, necessary wiring, cable alleys, earthing, interlocking with Automatic float type level controller, provision of high level alarm, sequence timer, potential free contact to starter for connection to BAS, both pumps may run simultaneously at pre determined level. (1 Working + 1 Standby) Location : Polishing Pond to STP treated water collection tank for tertiary treatment MOC : CI body; SS Impeller & Shaft Solid Handling : 15-20 MM a) Flow rate : 20 m3/hr. Head : 15 Mts (Student Hostel)	Set	2,50,851.29	2,50,851	2,25,992.15	2,25,992
17.006	MR- 17.006 .	1	b) Flow rate 30m3/hr. Head 15 M (Faculty Housing)	Set	2,50,278.08	2,50,278	2,25,475.75	2,25,476
17.007	MR- 17.007 .	44	Supply, installation , testing & commissioning M.S. puddle flanges fabricated of 750 mm long pipe pieces to R.C.C. water tanks wall / slab. MS pipe shall be of Heavy duty, conforming to IS 1239 part 1.The entire fitting shall be hot dipped galvanised (Flanges shall confirm to BS10 Table E)	each	2,526.96	1,11,186	2,276.54	1,00,168
17.008	MR- 17.008 .	44	a) 32 mm dia (Screwed ends MS plate 6 mm thick; 100 mm x 100 mm plus dia of pipe).	each	3,261.84	1,43,521	2,938.60	1,29,298
17.009	MR- 17.009 .	56	b) 40 mm dia (Screwed ends MS plate 6 mm thick; 100 mm x 100 mm plus dia of pipe).	each	3,996.72	2,23,816	3,600.65	2,01,636
17.010	MR- 17.010 .	56	c) 50 mm dia (Screwed ends MS plate 6 mm thick; 250 mm x 250 mm plus dia of pipe).	each	5,466.48	3,06,123	4,924.76	2,75,787
17.011	MR- 17.011 .	6	d) 80 mm dia (Flanged ends MS plate 6 mm thick; 250 mm x 250 mm plus dia of pipe).	each	6,201.36	37,208	5,586.82	33,521
17.012	MR- 17.012 .	6	e) 100 mm dia (Flanged ends MS plate 6 mm thick; 300 mm x 300 mm plus dia of pipe).	each	7,671.13	46,027	6,910.93	41,466
17.013	MR- 17.013 .	4	f) 150 mm dia(Flanged ends MS plate 6 mm thick; 300 mm x 300 mm plus dia of pipe).	each	9,875.77	39,503	8,897.09	35,588
			g) 200 mm dia(Flanged ends MS plate 6 mm thick; 300 mm x 300 mm plus dia of pipe).	each				
			Subtotal of Pumps, Treatment System & Equipment's			1,31,37,191		1,18,35,308
			Subtotal of NSOR Pumps, Treatment System & Equipment's			1,31,37,191		1,18,35,308
	18.0		FIRE FIGHTING WORKS					

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18.001	MR- 18.001 .	41	Supply, installation, testing and commissioning of booster pump comprising of the following: (a). Horizontal centrifugal pump, suitable for operation on 415 volts \pm 6%, 3 phase, 50 HZ A.C supply. The pump casing shall be CI, shaft shall be CS & impeller /shaft sleeve / casing wearing ring shall be bronze. The system shall be complete with necessary pressure gauge with gun metal shut off cock on delivery side. (The pump should meet the condition and shall be gotten approved by the Local fire Authority). (b). Squirrel cage induction motor TEFC type for operation on 415 V, 3 phase 50 HZ AC supply for the above pump with a synchronous speed of 2900 R.P.M. with flexible coupling and coupling guard etc. as required. (c). Common base plate for (a) and (b) from M.S. channel as required size. Common base plate for (a) and (b) from M.S. channel of required size.d. Suitable cement concrete foundation with plaster, (design and drawing to be provided by the Contractor while the foundation will be done by others) complete with antivibration arrangement of cushy foot mountings. For pump defined above & of duty as follows : a) Flow :450 LPM Head : 30 mts	each	61,265.87	25,11,901	55,194.48	22,62,974
18.002	MR- 18.002 .	41	Supply, installation , testing & commissioning of pressure switch for auto cut in & cut out of pump. The pressure switch shall decide maximum pressure at which the switch has to changeover , On-OFF differential, maximum/minimum changeover pressure . Pressure switch shall be mounted on pipe with electrical contact , connection from fire panel, Cost shall be inclusive of providing any short pieces, nipples, elbows etc. as per approved specifications.	each	6,235.53	2,55,657	5,617.59	2,30,321
18.003	MR- 18.003 .	82	Supply, installation , testing & commissioning dial type (100 mm) pressure gauge (glycerine filled) with isolation ball valve suitable for working pressure of 250 PSI. Cost shall be inclusive of providing any short pieces, nipples, elbows etc. as per approved specifications.	each	2,526.96	2,07,211	2,276.54	1,86,676
18.004	MR- 18.004 .	201	Providing, laying, jointing, testing and commissioning of following sizes of pipes conforming to IS-1239 , Heavy class with all accessories like all fittings (standard MS fitting with welded joint shall be used on the pipes) including tees, elbows, reducers, union, flanges, rubber gaskets, GI nuts bolts, washer including supporting/fixing the pipe on floor / wall /ceiling with clamps, hangers (using anchor fasteners) as per specification. G.I. pipe sleeve of suitable higher size shall be provided and fixed wherever the pipes are crossing the walls/floors and sealing the sleeves with glass wool in between & fire sealant compound at either end all as directed by Engineer - in - Charge / mandatory requirements including cutting holes and chases in brick, RCC work and making good the same to original conditions complete in all respects. All hangers, clamps, brackets etc. shall be of galvanized iron unless specified otherwise and the supply of the same shall also be included in the quoted rates under this head. (Welding of any kind on the galvanized support / hanger shall not be permitted.) Synthetic enamel paint of approved shade over a coat of zinc primer will be applied as required by Engineer - in - Charge/mandatory requirement, without extra cost.. a) 25mm nominal dia.	metre	417.98	84,139	376.56	75,801
18.005	MR- 18.005 .	1118	b) 65 mm nominal dia	metre	1,000.43	11,18,195	901.29	10,07,383
18.006	MR- 18.006 .	203	c) 80 mm nominal dia	metre	1,209.96	2,45,562	1,090.06	2,21,227
18.007	MR- 18.007 .	110	d) 100 mm nominal dia	metre	1,695.99	1,86,559	1,527.92	1,68,071
18.008	MR- 18.008 .	281	Supply, installation , testing & commissioning forged brass ball valve with forged brass ball, suitable for working pressure of 16kg/sq.cm a) 25mm nominal dia (Cost shall be inclusive of providing necessary union / flange connection).	each	1,305.89	3,66,302	1,176.48	3,30,002
18.009	MR- 18.009 .	41	b) 40 mm nominal dia	each	2,031.23	83,281	1,829.94	75,028
18.010	MR- 18.010 .	41	c) 50 mm nominal dia	each	2,727.80	1,11,840	2,457.47	1,00,756
18.011	DSR E& M 16.7.1.6	41	Supplying Installation Testing and Commissioning of Butterfly Valve (Manual) with CI body, SS Disc , Nitrile Rubber seal & O Ring , flanges, PN 16 pressure rating complete as required a) 65mm nominal dia	each	4,216.06	1,72,858	3,269.00	1,34,029
18.012	DSR E&M 16.7.1.5	41	b) 80mm nominal dia	each	4,691.96	1,92,370	3,638.00	1,49,158
18.013	DSR E&M 16.7.1.4	5	c) 100mm nominal dia	each	6,712.94	33,565	5,205.00	26,025
18.014	DSR E&M 16.7.1.2	5	Supply, installation , testing & commissioning CI 'Y' strainer with Stainless steel strainer including rubber gasket, flanges, nuts, bolts and washers, complete as per approved specifications. a) 80 mm nominal dia	each	6,381.48	31,907	4,948.00	24,740
18.015	DSR E&M 16.7.4.4	24	c)100mm nominal dia	each	8,777.76	2,10,666	6,806.00	1,63,344
18.016	DSR E&M 16.7.3.6	24	Supply, installation , testing & commissioning dual plate CI wafer type check valve PN 16. Including rubber gasket, flanges, union, nuts, bolts, washers & painting complete as per approved specifications. a) 65mm nominal dia	each	3,045.00	73,080	2,361.00	56,664
18.017	DSR E&M 16.7.3.5	24	80 mm dia	each	3,518.33	84,440	2,728.00	65,472
18.018	MR- 18.011 .	281	Supply, installation , testing & commissioning swinging type First Aid hose reel in red colour drum with 36 mts long and 20 mm dia heavy duty rubber water hose, 20 mm dia globe valve stop cock, terminating with G.M. coupling & nozzle of 6mm outlet with shut off valve confirming to IS 8090 - 1976 complete with MS socket for tap-off, drum and brackets (including painting) for fixing on wall with anchor fastener, bolts & nuts conforming to IS:884-1969 complete as per approved specifications.	each	11,915.03	33,42,165	10,734.26	30,10,959
18.019	MR- 18.012 .	281	Fire duct Shutter fabricated out of M.S. sheet of 16swg and frame, door shall be 900mm x 1200 mm min. & fixed with 4 mm thick Glass, suitable Rubber beading and Locking arrangement. Quoted rate shall include all fasteners etc., and complete shutter shall be powder coated of approved colour both inside and out side etc., complete.	each	7,477.74	20,97,505	6,736.70	18,89,644
18.020	MR- 18.013 .	3	Mechanical Foam type Fire Extinguisher (ISI marked). In HP Mild Steel Cylinders ISI marked fitted with pressure indicating gauge, internal tube, squeeze lever type valve fully charged complete in all respects including wall suspension bracket / trolley mounted and conforming to IS:910 a) 50 Litres (trolley mounted)	each	24,013.00	72,039	21,633.33	64,900
18.021	MR- 18.014 .	633	Supply, installation, testing and commissioning of following types of extinguisher with provision of wall bracket (fixed with anchor fastener).ISI marked (IS:940) portable chemical fire extinguisher, water (gas pressure) type capacity 9 litres with gun metal cap and nozzle and complete in all respects including initial fill and wall suspension brackets (As approved by IS 15683)	each	6,810.41	43,11,673	6,135.51	38,84,390

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18.022	MR- 18.015 .	633	ISI marked (IS:2878) Fire Extinguisher, Carbon-di-oxide type capacity 4.5 Kg (circular should be PESO approved). Flat base including valve, discharge hose of not less than 10 mm dia, 1M long and complete in all respects including initial fill with CO2 gas conforming to IS:307-1966 filled to a filling rate of not more than 0.667 and wall suspension bracket.	each	13,202.07	83,58,233	11,893.76	75,29,939
18.023	MR- 18.016 .	10	Supplying and installing at approved location approved make fire buckets of 24 gauge galvanized steel sheet, standard 9 litre capacity and of round bottom shape, painted white inside and red outside and black on the bottom, inscribed with letters "FIRE" in black and gold. Cost shall be inclusive of providing MS stand duly painted over a coat of primer complete as per specification- Set of 6 Buckets/Stand.	set	5,705.02	57,050	5,139.66	51,397
18.024	MR- 18.017 .	82	ELECTRICAL SYSTEM, INSTRUMENTATIONS & MCC CONTROLS FOR FIRE PROTECTION SYSTEM CABLES AND END TERMINATIONS Supply, Installation, Testing and Commissioning of following armoured / flexible / unarmoured cables. All the below mentioned cables shall be 1.1kV grade, XLPE insulated, FRLS type armoured cables of Al / Cu, with inner and outer PVC sheath. The said cables shall confirm IS 7098-1, BS 5467, IEC 60502-1, BS 7889 with all supplementary. The rate shall include complete cost of Supply, laying/installation, testing and commissioning including cost of conduits (wherever specified for flexible cables only), fire retardant sealant and all tools and accessories required to Complete the job in full respect. 4C X 25 sq.mm 2XWY	metre	3,076.34	2,52,260	2,771.48	2,27,261
18.025	MR- 18.018 .	82	2C X 2.5 sq.mm. 2XY for instrumentation	metre	228.61	18,746	205.96	16,888
18.026	DSR EnM 2014 9.1.34	82	Supply, Installation, Testing and Commissioning of end terminations of following armoured cables. All the lugs shall be of Cu/Al lugs and glands shall be double compression brass glands as per the technical specifications. The cost shall include the cost of crimping and all tools and accessories required to complete the job in full respect. 4C X 25 Sq. mm Cu2XY	each	319.85	26,228	248.00	20,336
18.027	DSR EnM 2014 9.1.1	82	2C X 2.5 sq.mm. 2XY	each	412.69	33,841	319.99	26,239
18.028	DSR EnM 2014 5.15	205	Providing and Fixing of 25 x 3 mm G.I. strip on surface or in recess for connections etc. as required	metre	183.14	37,543	142.00	29,110
18.029	DSR EnM 2014 5.16	164	Providing and Fixing of 6 SWG dia G.I. wire on surface or in recess for loop earthing as required	metre	45.14	7,403	35.00	5,740
18.030	MR- 18.019 .	41	Design, fabrication, assembling, wiring, supply, installation, testing and commissioning of motor control centre fabricated out of 14 gauge CRCA sheet steel in form with reinforcement of suitable size angle iron, channel 'T' sections irons and /or flats wherever necessary. MCC-1 for Fire Fighting equipment Incoming 63 amps TPN MCCB with the following accessories: a.) 0-500 volts 96 x 96 mm square voltmeter with selector switch protected by 2 amps TP MCB. 1 Set b.) Phase indicating lamps protected by 2 amp SP MCB 3 Sets Outgoings a.) 1 Nos. 32 amps TPN MPCB, 5.5 KW DOL starter, EOCR with single phase preventer and outgoing feeder to terrace pump motor. The compartment shall contain CT operated ammeter of 0-63 amps and indicating lamps with MCBs for 'ON'/OFF/TRIP' status of pump motors. b.) Necessary cable alleys, internal wiring, and interlocking, earthing for all equipment shall also included. c.) Necessary cable alleys space for spare switches, internal wiring and copper earthing of all equipment shall also be included. All switch gears/control gears shall be motor duty rating. d) Complete Auto Start and stop of pumps at set pressure as per specifications e) This panel shall be placed open to sky , protection shall be ensured Provision shall be made for providing potential free contacts to all pumps starters for connection to building automation system.	each	1,11,341.83	45,65,015	1,00,307.95	41,12,626
			Subtotal of Fire fighting work			2,91,49,234		2,61,47,103
			Subtotal of NON SOR Fire fighting work			2,82,45,332		2,54,46,245
	19.0		ELECTRICAL WORK					

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			<p>General Notes : Chapter-1 Wiring (As per CPWD DSR 2014 E & M) 1. This section covers Items of Sub mains and point wiring for all internal areas. 2. Switchboards, power plugs, switches for power plugs, GI Modular boxes and cover plates and its accessories are included in this chapter. 3 GI box, sockets, cover plates for TV and telephone are included in this chapter. 4. Point wiring for light/bell/fan/exhaust fan - wiring including termination from switch boxes to the point outlet including Concealed/surface conduits, the GI box, modular cover plate and switches are included in the rates of point wiring. 5. Sub mains wiring includes wiring including termination from distribution boards to respective switchboards and power outlets for all internal areas. wiring for DB controlled light points are also considered in sub mains wiring. 6. All tools and accessories required to complete the job in full respect and as per engineer in charge shall be included. Chapter-2 MCCBs, MCBs & DBs: 1. Items under this section covers Distribution boards considered for all internal and common areas. 2. Switchgears used inside the distribution boards and its accessories are covered under this chapter. 3. All internal wirings including neutral and earthing connections inside DB has to be fully completed. 4. External earthing for DB is considered under earthing section and shall be paid under relevant items. 5. Minimum Breaking capacity for all switchgears inside DB shall be 10kA with Ics=Icu. 4. All tools and accessories required to complete the job in full respect and as per engineer in charge shall be included. Chapter-3 Cables & End terminations: 1. Items under this section covers Armoured / Unarmoured / flexible AL/Cu. cables & their end terminations from Substation to different feeder pillars , from feeder pillars to metering panels / Main LT Panel of different buildings and therefrom to different distribution boards and HVAC Panels. 2. Armoured cables are to be laid as cable tray / underground as per relevant design drawing and specifications. All flexible cables shall be laid</p>					
19.001	1.14.2	89481	<p>CHAPTER-1 WIRING Wiring of circuit / sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required. (a)2 x 2.5 sq.mm. + 1 x 2.5 sq.mm. earth wire.</p>	Metre	168.95	1,51,18,007	131.00	1,17,22,029
19.002	1.14.3	21348	(b)2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire	Metre	208.93	44,60,366	162.00	34,58,428
19.003	1.14.4	500	(c)2 x 6 sq.mm. + 1 x 6 sq.mm. earth wire	Metre	285.03	1,42,513	221.00	1,10,500
19.004	1.21.2	18152	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. (a) : 25 mm	Metre	83.83	15,21,702	65.00	11,79,880
19.005	1.21.3	7959	(b) : 32 mm	Metre	109.63	8,72,551	85.00	6,76,549
19.006	1.21.4	250	(c) : 40 mm	Metre	141.87	35,467	110.00	27,500
19.007	1.21.5	40	(d) : 50 mm	Metre	185.72	7,429	144.00	5,760
19.008	1.20.2	300	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required. (a) : 25 mm	Metre	183.14	54,942	142.00	42,600
19.009	1.20.3	406	(b) : 32 mm	Metre	248.91	1,01,059	193.00	78,358
19.010	1.20.4	434	(c) : 40 mm	Metre	370.15	1,60,644	287.00	1,24,558
19.011	1.20.5	735	(d) : 50 mm	Metre	499.12	3,66,851	387.00	2,84,445
19.012	1.19	9395	Supplying and drawing Co-axial TV cable RG-6 grade,0.7mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/recessed steel/PVC conduit as required.	Metre	36.11	3,39,271	28.00	2,63,060
19.013	1.53	13225	Supplying and drawing of UTP 4 pair CAT6 LAN cable in the existing surface / recessed steel/PVC conduit as required.	Metre	42.56	5,62,853	33.00	4,36,418
19.014	MR- 19.001	516	Supplying and fixing shuttered type, UTP CAT6 compatible, RJ-45 data connectors suitable for fixing in existing 1M (75 mm x 75 mm) modular plate and complete as required.	Each	724.86	3,74,027	653.03	3,36,962
19.015	1.27.1	3038	Supplying and fixing following size / modules, GI box along with modular base and cover plate for modular switches in recess etc. as required. (a) : 1 or 2 Module (75mm x 75mm)	Each	214.09	6,50,411	166.00	5,04,308
19.016	1.27.2	6192	(b) : 3 Module (100mm x 75mm)	Each	225.70	13,97,529	175.00	10,83,600
19.017	1.27.3	35	(c) : 4 Module (125mm x 75mm)	Each	251.49	8,802	195.00	6,825
19.018	1.27.4	1655	(d) : 6 Module (200mm x 75mm)	Each	319.85	5,29,348	248.00	4,10,440
19.019	1.27.6	314	(f) : 12 Module (200mm x 150mm)	Each	430.76	1,35,260	334.00	1,04,876
19.020	1.24.4	8116	Supplying and fixing following modular switch / socket on existing modular plate and switch box including connections but excluding modular plate etc. as required. (a) : 3 pin 5/6 amp socket outlet	Each	101.89	8,26,915	79.00	6,41,164
19.021	1.24.5	679	(b) : 6 pin 15/16 amp socket outlet	Each	193.46	1,31,357	150.00	1,01,850
19.022	MR 19.002	4629	(c) : Universal 6/16 amp switch & socket outlet	Each	424.08	19,63,053	382.05	17,68,516
19.023	1.24.1	8116	(d) : 5/6 amps switch	Each	104.47	8,47,850	81.00	6,57,396
19.024	1.24.3	679	(e) : 15/16 amp switch	Each	143.16	97,204	111.00	75,369
19.025	1.24.6	1167	(f) : Telephone socket outlet	Each	122.52	1,42,984	95.00	1,10,865
19.026	1.24.7	958	(g) : TV antenna socket outlet	Each	121.23	1,16,141	94.00	90,052
19.027	1.24.8	244	(h) : Bell Push	Each	143.16	34,930	111.00	27,084
19.028	1.38	244	(i) : Supplying and fixing call bell / buzzer suitable for single phase, 230 volts, complete as required.	Each	78.67	19,196	61.00	14,884
19.029	1.26	2470	(j) Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	29.66	73,268	23.00	56,810
19.030	1.25	1914	(k) Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	366.28	7,01,055	284.00	5,43,576

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19.031	2.18	2	(l) Supplying and fixing 20 amp, 240 Volts, SPN industrial type, socket outlet with 2 pole and earth, metal enclosed plug top along with 20 amps "C curve", SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for socket outlet and complete with connections, testing commissioning etc. as required.	Each	1,230.38	2,461	954.00	1,908
19.032	2.20	2	(m) Supplying and fixing 30 amp, 415 Volts, TPN industrial type, socket outlet with 4 pole and earth, metal enclosed plug top along with 30 amps "C curve", TP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for socket outlet and complete with connections, testing commissioning etc. as required.	Each	3,189.45	6,379	2,473.00	4,946
19.033	MR 19.003	10	(n) : Supplying and fixing 32 amp, 240 Volts, SPN industrial type, splash proof, IP-67 for kitchen socket outlet with 2 pole and earth, metal enclosed plug top along with 32 amps "C curve", SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for socket outlet and complete with connections, testing commissioning etc. as required.	Each	3,109.42	31,094	2,801.28	28,013
19.034	MR 19.004	5	(o) : Supplying and fixing 30 amp, 415 Volts, SPN industrial type, splash proof, IP-67 for kitchen socket outlet with 2 pole and earth, metal enclosed plug top along with 30 amps "C curve", SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for socket outlet and complete with connections, testing commissioning etc. as required.	Each	6,216.65	31,083	5,600.59	28,003
19.035	2.17	5	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	Each	1,119.47	5,597	868.00	4,340
19.036	MR 19.005	2	Supplying and fixing 40 amp, 415 Volts, TPN industrial type, IP 44 for kitchen socket outlet with 4 pole and earth, metal enclosed plug top along with 40 amps "C curve", TP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for socket outlet and complete with connections, testing commissioning etc. as required.	Each	6,781.30	13,563	6,109.28	12,219
19.037	MR 19.006	2	Supplying and fixing 63 amp, 415 Volts, waterproof TPN industrial type, IP 67 for kitchen socket outlet with 4 pole and earth, metal enclosed plug top along with 63 amps "C curve", TP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for socket outlet and complete with connections, testing commissioning etc. as required.	Each	8,092.54	16,185	7,290.58	14,581
19.038	1.10.1	7120	Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 sq.mm. FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable etc. as required.	Each	668.07	47,56,653	518.00	36,88,160
19.039	1.10.2	20124	(a) Group A (b) Group B	Each	754.48	1,51,83,151	585.00	1,17,72,540
19.040	1.11	5638	Wiring for twin controlled light point with 1.5 sq.mm. FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable etc. as required.	Each	993.08	55,98,962	770.00	43,41,260
19.041	1.34	32882	Supplying and fixing of brass batten / angle holder / connectors including connections etc. as required.	Each	95.44	31,38,208	74.00	24,33,268
19.042	1.44	1914	Installation, testing and commissioning of ceiling fan, including wiring, the down rods of standard length (up to 30 cm) with 1.5 sqmm FRLS PVC insulated copper conductor single core cables etc. as required.	Each	122.52	2,34,508	95.00	1,81,830
19.043	1.50.1	1346	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing commissioning etc. as required. (a): Up to 450mm sweep	Each	263.10	3,54,133	204.00	2,74,584
19.044	1.51	1346	Extra for fixing the louvers / shutters complete with frame for a exhaust fan of all sizes.	Each	116.07	1,56,235	90.00	1,21,140
19.045	1.44	17	(i): Installation of Wall fan suitable for single phase, 230 volts including wiring with 1.5 sqmm FRLS PVC insulated copper conductor single core cables etc., complete as required.	Each	122.52	2,083	95.00	1,615
19.046	MR 19.007	56	Supply, Installation, Testing and Commissioning of following three phase and neutral (TPN), MS powder coated with thickness 1.6 mm, horizontal, double door (IP 43), recessed mounting type, MCB distribution boards complying to IS 8623:1977, IS 2675: 1983, IEC 439-3 and BS EN 60439-3 including all supplements. The distribution boards shall have protection against mechanical impact index of minimum IK08. Supplier should provide the testing certificate for Ingress protection and mechanical impact tested at third party location. outer door shall be hinged type, inner door shall be fixed up with screws with cut-outs for MCB operation, copper bus bar of 100 Amp rating, along with din bars, neutral bars, earth bars, lockable door arrangement including all internal connections as required. The board shall have adequate space for termination of incoming and outgoing cables, and also a separate space with proper partition of same material or better material and thickness as specified for distribution board, to accommodate a TV splitter and a 5 pair telephone terminal block, removable un drilled top & bottom gland plates, should be suitable for wall, column mounting type B. (b) 6 Way TPN DB with 18 modules for SP MCBs in outgoing, 2 modules per phase for RCCB, min 4 modules for placing incoming MCB/RCDs, space to accommodate a TV splitter and a 5 pair telephone terminal block complete with earth bar, neutral bars, din rails, connections but excluding the cost of MCCB/MCB/RCDs.	Each	4,344.86	2,43,312	3,914.29	2,19,200
19.047	MR 19.008	116	(c) 8 Way TPN DB with 24 modules for SP MCBs in outgoing, 2 modules per phase for RCCB, min 4 modules for placing incoming MCB/RCDs, space to accommodate a TV splitter and a 5 pair telephone terminal block complete with earth bar, neutral bars, din rails, connections but excluding the cost of MCCB/MCB/RCDs.	Each	5,329.13	6,18,180	4,801.02	5,56,919
19.048	MR 19.009	41	(d) 12 Way TPN DB with 36 modules for SP MCBs in outgoing, 2 modules per phase for RCCB, min 4 modules for placing incoming MCB/RCDs, space to accommodate a TV splitter and a 5 pair telephone terminal block complete with earth bar, neutral bars, din rails, connections but excluding the cost of MCCB/MCB/RCDs.	Each	7,436.93	3,04,914	6,699.94	2,74,697

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19.049	MR 19.010	6	Supply, Installation, Testing and Commissioning of MCB distribution boards complying to IS 8623:1977, IS 2675: 1983, IEC 439-3 and BS EN 60439-3 including all supplements, MS powder coated with thickness 1.6 mm, horizontal, double door (IP 43), recessed mounting type, for following single phase and neutral (SPN) DB. The distribution boards shall have protection against mechanical impact index of minimum IK08. Supplier should provide the testing certificate for Ingress protection and mechanical impact tested at third party location. outer door shall be hinged type, inner door shall be fixed up with screws with cut-outs for MCB operation, copper bus bar of 100 Amp, along with din bars, neutral bars, earth bars, lockable door arrangement including all internal connections as required. The board shall have adequate space for termination of incoming and outgoing cables, and also a separate space with proper partition of same material specification as distribution board or better to accommodate a TV splitter and a 5 pair krone connector, removable un drilled top & bottom gland plates, should be suitable for wall, column mounting type B. (a) 8 Way SPN DB with 8 modules for SP MCBs in outgoing, 2 modules for placing incoming MCCB/MCB/RCDs, space to accommodate a TV splitter and a 5 pair telephone terminal block complete with earth bar, neutral bars, din rails, connections but excluding the cost of MCCB/MCB/RCDs.	Each	2,226.16	13,357	2,005.55	12,033
19.050	MR 19.011	198	(c) 12 Way SPN DB with 12 modules for SP MCBs in outgoing, 2 modules for placing incoming MCCB/MCB/RCDs, space to accommodate a TV splitter and a 5 pair telephone terminal block complete with earth bar, neutral bars, din rails, connections but excluding the cost of MCCB/MCB/RCDs.	Each	2,509.07	4,96,797	2,260.43	4,47,565
19.051	MR 19.012	87	Supply, Installation, Testing and Commissioning of MCB distribution boards complying to IS 8623:1977, IS 2675: 1983, IEC 439-3 and BS EN 60439-3 including all supplements, MS powder coated with thickness minimum 1.6 mm, horizontal, double door (IP 43), recessed mounting type, for following configuration vertical three phase and neutral (VTPN) DB. The vertical TPN DB shall be recessed mounted vertically with modules suitable to draw out both single phase and three phase outgoing. The distribution boards shall have protection against mechanical impact index of minimum IK08. Supplier should provide the testing certificate for Ingress protection and mechanical impact tested at third party location. outer door shall be hinged type, inner door shall be fixed up with screws with cut-outs for MCB operation, copper bus bar of 200 Amp. along with din bars, neutral bars, earth bars including all internal connections as required. The board shall have adequate space for termination of incoming and outgoing cables, and also a separate space with proper partition of same material specification as distribution board or better to accommodate a TV splitter and a 5 pair krone connector, removable un drilled top & bottom gland plates, should be suitable for wall, column mounting type B.	Each	9,904.07	8,61,654	8,922.58	7,76,265
19.052	MR 19.013	19	(b) 8 Way VTPN DB with 24 modules suitable for both SP and TP MCBs in outgoing, (min 4 modules for placing incoming MCB/RCDs, or required modules for MCCB) along with space to accommodate a TV splitter and a 5 pair telephone terminal block complete with earth bar, neutral bars, din rails, connections but excluding the cost of MCCB/MCB/RCDs.	Each	12,282.54	2,33,368	11,065.35	2,10,242
19.053	2.10.1	7932	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Each	217.96	17,28,865	169.00	13,40,508
19.054	2.10.3	199	(a) Single pole	Each	591.98	1,17,803	459.00	91,341
19.055	2.10.4	36	(b) Double pole	Each	897.64	32,315	696.00	25,056
19.056	MR 19.014	302	(c) Triple pole	Each	1,899.41	5,73,621	1,711.18	5,16,776
19.057	MR 19.015	228	Supplying and fixing 40 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Each	1,899.41	4,33,065	1,711.18	3,90,149
19.058	MR 19.016	131	(b) Four pole	Each	1,251.88	1,63,996	1,127.82	1,47,744
19.059	MR 19.017	6	Supplying and fixing 32 amps rating, 415 volts, four pole, "C" curve, miniature circuit breaker suitable for inductive load in the existing MCB DB complete with connections, testing and commissioning etc. as required.	Each	2,300.73	13,804	2,072.73	12,436
19.060	MR 19.018	356	Supplying and fixing following rating, 240 volts, double pole, "C" curve, residual current break over (RCBO) suitable for inductive load of following capacities in the existing MCB DB complete with connections, testing and commissioning etc. as required. (a) 25A, 30mA, 10 kA DP RCBO	Each	3,471.90	12,35,996	3,127.84	11,13,510
19.061	2.14.2	274	(b) 40A, 30mA, 10 kA DP RCBO	Each	2,210.56	6,05,694	1,714.00	4,69,636
19.062	2.14.3	141	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB) having sensitivity up to 30milliampere in the existing MCB DB complete with connections, testing commissioning etc. as required	Each	2,885.08	4,06,796	2,237.00	3,15,417
19.063	2.11	1279	(b) 40 amps	Each	9.03	11,547	7.00	8,953
19.064	2.13.1	15	(c) 63 amps	Each	849.92	12,749	659.00	9,885
19.065	2.13.1	12	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	849.92	10,199	659.00	7,908
19.066	2.13.2	10	Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. (a) 32 Amp	Each	864.11	8,641	670.00	6,700
19.067	MR 19.019	6758	(b) 40 Amp	Each	2,160.77	1,46,02,502	1,946.64	1,31,55,407
19.068	MR 19.020	7282	(c) 63 Amp	Metre	2,003.12	1,45,86,741	1,804.62	1,31,41,208
19.069	MR 19.021	1729	CHAPTER - 3 : CABLES AND END TERMINATIONS : Supply, Installation, Testing and Commissioning of following armoured / flexible / unarmoured cables. All the below mentioned cables shall be 1.1kV grade, XLPE insulated, FRLS type armoured cables of Al / Cu, with inner and outer PVC sheath. The said cables shall confirm IS 7098-1, BS 5467, IEC 60502-1, BS 7889 with all supplementary. The rate shall include complete cost of Supply, laying/installation, testing and commissioning including cost of conduits (wherever specified for flexible cables only), fire retardant sealant and all tools and accessories required to Complete the job in full respect. (a) 3.5C X 300 Sqmm A2XFY.	Metre	1,604.36	27,73,942	1,445.37	24,99,047
			(b) 3.5C X 240 Sqmm A2XFY.	Metre				
			(c) 3.5C X 185 Sqmm A2XFY.	Metre				

me of Work :- Development Of Permanent Campus Of Nu Rajgir.								
bjeet :- Schedule-B								
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19.070	MR 19.022	572	(d) 3.5C X 150 Sqmm A2XFY.	Metre	1,274.62	7,29,084	1,148.31	6,56,832
19.071	MR 19.023	725	(f) 3.5C X 95 Sqmm A2XFY.	Metre	865.17	6,27,252	779.44	5,65,092
19.072	MR 19.024	280	(h) 3.5C X 50 Sqmm A2XFY.	Metre	527.62	1,47,733	475.33	1,33,093
19.073	MR 19.025	218	(i) 3.5C X 35 Sqmm A2XFY.	Metre	407.50	88,836	367.12	80,033
19.074	MR 19.026	5389	(j) 4C X 25 Sqmm A2XFY.	Metre	358.36	19,31,177	322.84	17,39,799
19.075	MR 19.027	20	(k) 4C X 16 Sqmm 2XWY.	Metre	1,203.17	24,063	1,083.94	21,679
19.076	MR 19.028	3566	(l) 4C X 10 Sqmm 2XWY.	Metre	842.43	30,04,115	758.95	27,06,410
19.077	MR 19.029	2175	(m) 4C X 6 Sqmm 2XWY.	Metre	549.39	11,94,923	494.95	10,76,507
19.078	MR 19.030	120	(n) 4C X 4 Sqmm 2XWY.	Metre	401.01	48,122	361.27	43,353
19.079	MR 19.031	135	(o) 4C X 16 Sqmm Cu. YY (PVC flexible cable) in a 32 mm dia medium duty PVC conduit	Metre	711.74	96,084	641.20	86,563
19.080	MR 19.032	1240	(p) 4C X 10 Sqmm Cu. YY (PVC flexible cable)in a 32 mm dia medium duty PVC conduit	Metre	505.86	6,27,272	455.73	5,65,110
19.081	MR 19.033	6647	(q)4C X 6 Sqmm Cu. YY (PVC flexible cable) in a 32 mm dia medium duty PVC conduit	Metre	355.63	23,63,897	320.39	21,29,637
19.082	MR 19.034	2822	(r)4C X 4 Sqmm Cu. YY (PVC flexible cable) in a 32 mm dia medium duty PVC conduit	Metre	286.08	8,07,325	257.73	7,27,319
19.083	MR 19.035	50	(s) 3C X 10 Sqmm 2XWY	Metre	658.82	32,941	593.53	29,676
19.084	MR 19.036	15	(t) 3C X 6 Sqmm 2XWY	Metre	432.54	6,488	389.68	5,845
19.085	MR 19.037	75	(u) 3C X 4 Sqmm 2XWY	Metre	320.33	24,025	288.59	21,644
19.086	MR 19.038	50	(v) 3C X 6 Sqmm Cu. YY (PVC flexible cable) in a 25 mm dia medium duty PVC conduit	Metre	276.29	13,814	248.91	12,445
19.087	MR 19.039	4669	(w) 3C X 4 Sqmm Cu. YY (PVC flexible cable) in a 25 mm dia medium duty PVC conduit	Metre	225.29	10,51,859	202.96	9,47,620
19.088	MR 19.040	344	(x) 3C X 2.5 Sqmm Cu. YY (PVC flexible cable) in a 25 mm dia dia medium duty PVC conduit	Metre	187.24	64,409	168.68	58,026
19.089	MR 19.041	2972	Control Cables : (bb)2C x 2.5 sqmm cu. control cables	Metre	179.44	5,33,304	161.66	4,80,454
19.090	MR 19.042	1297	(cc)4C x 2.5 sqmm cu. control cables	Metre	271.35	3,51,941	244.46	3,17,064
19.091	MR 19.043	224	(dd) 6C x 2.5 sqmm cu. control cables	Metre	367.40	82,297	330.99	74,141
19.092	MR 19.044	3076	(dd) 24C x 2.5 sqmm cu. control cables	Metre	527.20	16,21,666	474.95	14,60,960
19.093	MR 19.045	42	Supplying and making and termination with double compression brass gland and aluminium lugs for following size of PVC insulated and PVC sheathed /XLPE aluminium conductor cable of 1.1 KV grade of the following sizes as required (a)3.5 X 300 Sq mm (70mm)	Each	2,892.49	1,21,484	2,605.84	1,09,445
19.094	MR 19.046	60	(b) 3.5C X 240 Sqmm (62mm).	Each	2,298.85	1,37,931	2,071.04	1,24,262
19.095	MR 19.047	34	(c) 3.5C X 185 Sqmm (57mm).	Each	1,940.27	65,969	1,747.99	59,432
19.096	MR 19.048	8	(d) 3.5C X 150 Sqmm (50mm).	Each	1,475.05	11,800	1,328.87	10,631
19.097	MR 19.049	38	(f) 3.5C X 95 Sqmm (45mm).	Each	1,106.83	42,060	997.15	37,892
19.098	MR 19.050	14	(h) 3.5C X 50 Sqmm (35mm).	Each	827.33	11,583	745.34	10,435
19.099	MR 19.051	12	(i) 3.5C X 35 Sqmm (32mm).	Each	746.59	8,959	672.60	8,071
19.100	MR 19.052	176	(j) 4C X 25 Sqmm (28mm).	Each	534.23	94,025	481.29	84,707
19.101	MR 19.053	2	Supplying and making and termination with double compression brass gland and copper lugs for following size of PVC insulated and PVC sheathed /XLPE copper conductor cable of 1.1 KV grade of the following sizes are required. (k) 4C X 16 Sqmm 2XWY.	Each	545.60	1,091	491.53	983
19.102	MR 19.054	340	(l) 4C X 10 Sqmm 2XWY.	Each	411.73	1,39,987	370.92	1,26,114
19.103	MR 19.055	214	(m) 4C X 6 Sqmm 2XWY.	Each	396.43	84,837	357.15	76,430
19.104	MR 19.056	12	(n) 4C X 4 Sqmm 2XWY.	Each	396.43	4,757	357.15	4,286
19.105	MR 19.057	82	(o) 4C X 16 Sqmm Cu. YY (PVC flexible cable) in a 32 mm dia medium duty PVC conduit	Each	545.60	44,739	491.53	40,306
19.106	MR 19.058	160	(p) 4C X 10 Sqmm Cu. YY (PVC flexible cable)in a 32 mm dia medium duty PVC conduit	Each	411.73	65,876	370.92	59,348
19.107	MR 19.059	490	(q)4C X 6 Sqmm Cu. YY (PVC flexible cable) in a 32 mm dia medium duty PVC conduit	Each	396.43	1,94,253	357.15	1,75,003
19.108	MR 19.060	188	(r)4C X 4 Sqmm Cu. YY (PVC flexible cable) in a 32 mm dia medium duty PVC conduit	Each	396.43	74,530	357.15	67,144
19.109	MR 19.061	6	(s) 3C X 10 Sqmm 2XWY	Each	411.73	2,470	370.92	2,226
19.110	MR 19.062	2	(t) 3C X 6 Sqmm 2XWY	Each	389.59	779	350.98	702
19.111	MR 19.063	4	(u) 3C X 4 Sqmm 2XWY	Each	389.59	1,558	350.98	1,404
19.112	MR 19.064	6	(v) 3C X 6 Sqmm Cu. YY (PVC flexible cable) in a 25 mm dia medium duty PVC conduit	Each	389.59	2,338	350.98	2,106
19.113	MR 19.065	482	(w) 3C X 4 Sqmm Cu. YY (PVC flexible cable) in a 25 mm dia medium duty PVC conduit	Each	382.59	1,84,407	344.67	1,66,133
19.114	MR 19.066	80	(x) 3C X 2.5 Sqmm Cu. YY (PVC flexible cable) in a 25 mm dia dia medium duty PVC conduit	Each	382.59	30,607	344.67	27,574
19.115	MR 19.067	398	Control Cables : (bb)2C x 2.5 sqmm cu. control cables	Each	322.19	1,28,230	290.26	1,15,522
19.116	MR 19.068	142	(cc)4C x 2.5 sqmm cu. control cables	Each	331.21	47,032	298.39	42,371
19.117	MR 19.069	32	(dd) 6C x 2.5 sqmm cu. control cables	Each	340.24	10,888	306.52	9,809
19.118	MR 19.070	312	(dd) 24C x 2.5 sqmm cu. control cables	Each	567.20	1,76,966	510.99	1,59,428
19.119	MR 19.071	1960	CHAPTER- 4 : CABLE TRAYS AND RACEWAYS : Supplying and installing following size of perforated hot dip galvanized G.I cable tray, with galvanizing thickness of 65 micron with perforations not more than 17.5%, in convenient sections, joined with connectors, suspended from ceiling with G.I suspenders including bolts and nuts, etc. as required. (a)100 mm width x 50 mm depth x 1.6 mm thickness	Metre	382.88	7,50,439	344.93	6,76,071
19.120	MR 19.072	655	(C)300 mm width x 50 mm depth x 1.6 mm thickness	Metre	599.26	3,92,515	539.87	3,53,617
19.121	MR 19.073	878	(d)600 mm width x 50 mm depth x 2 mm thickness	Metre	1,134.91	9,96,451	1,022.44	8,97,704
19.122	MR 19.074	380	(e)900 mm width x 62.5 mm depth x 2 mm thickness	Metre	1,595.63	6,06,338	1,437.50	5,46,251
19.123	MR 19.075	284	CHAPTER- 5 : EARTHING AND LIGHTNING PROTECTION Supply, installation, connections, testing & commissioning of 17.2 mm dia. rod of 3 meter length having copper bonding of 250 micron, along with 5 kg of maintenance free ground enhancing compound & shall comply as per IEEE 80:2000 Clause 14.5d with fused rod to tape clamp for interconnection of strip from earth pit to equipment.	Each	9,126.98	25,92,061	8,222.50	23,35,190

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19.124	5.7	8314	Supplying and laying 6 SWG GI wire at 0.50 metre below ground level for conductor earth electrode including connections / termination with GI thimble etc. as required.	Metre	34.82	2,89,511	27.00	2,24,478
19.125	5.9	4077	Supplying and laying 25mm x 5mm GI strip at at 0.50 metre below ground as strip earth electrode including connections / terminating with GI nut, bolts, spring, washer etc. as required (Jointing shall be done by overlapping and with 2 set of G.I nut bolt and spring washer spaced at 50mm).	Metre	140.58	5,73,138	109.00	4,44,393
19.126	MR 19.076	300	Supplying and laying 32mm x 6 mm GI strip at at 0.50 metre below ground as strip earth electrode including connections / terminating with GI nut, bolts, spring, washer etc. as required (Jointing shall be done by overlapping and with 2 set of G.I nut bolt and spring washer spaced at 50mm).	Metre	161.11	48,333	145.14	43,543
19.127	6.1	80	Providing and fixing of lightning conductor finial , made of 25mm dia 300mm long Copper tube, having single prong at top, with 85mm dia 3mm thick Copper base plate including holes etc. complete as required.	Each	985.34	78,827	764.00	61,120
19.128	6.5	1629	Providing and fixing Copper tape 20mm x 3mm thick on parapet or surface of wall for lightning conductor complete as required.(for horizontal run)	Metre	484.93	7,89,952	376.00	6,12,504
19.129	6.6	640	Providing and fixing copper tape 20mm x 3mm thick on parapet or surface of wall for lightning conductor complete as required.(for vertical run)	Metre	523.62	3,35,118	406.00	2,59,840
19.130	6.11	80	Providing and fixing testing joint , made of 20mm x 3mm thick copper strip, 125 mm long, with 4 Nos. of tinned brass bolts, nuts, check nuts and spring washers etc. complete as required.	Each	251.49	20,119	195.00	15,600
19.131	MR 19.077	1	CHAPTER- 6 : UPS Design, supply, Installation testing and commissioning of following size and configuration IGBT based UPS system as per the said specifications with inbuilt isolation transformer as per kVA rating with a battery backup of 30 minutes. (12 volt battery comprising of 2 V cells) (a) 5KVA single phase input single phase output	Set	2,21,138.95	2,21,139	1,99,224.28	1,99,224
19.132	MR 19.078	725	CHAPTER- 7 : CIVIL AND MISC WORKS Providing all materials and constructing required clear sized cable trench as per detailed drawings including necessary excavation, 230 mm thick rubble soling, 100 mm thick PCC 1:4:8, RCC M25 base slab and Walls and precast RCC cover 100 mm mm thick as per drawing, inclusive of necessary Formwork and Reinforcement complete as directed by Engineer - in Charge. (a) 1.2 M Wide x 1 M Depth	Rmt.	20,097.62	1,45,70,776	18,105.97	1,31,26,825
19.133	MR 19.079	307	(e) 0.6 M Wide x 1 M Depth	Rmt.	16,016.01	49,16,916	14,428.84	44,29,654
19.134	19.7.1/19.8	70	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Nos.	17,705.56	12,39,389	13,728.34	9,60,984
19.135	19.7.2.1	20	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Nos.	23,607.41	4,72,148	18,304.45	3,66,089
19.136	19.6.4	700	Providing and laying Non Pressure NP-2 class (Medium duty) R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete (a) 300 mm dia RCC pipe	Metre	653.04	4,57,131	506.35	3,54,445
19.137	MR 19.080	1080	Supplying and laying of following size flexible high density polyethene (HDPE) corrugated pipes along with water tight joints at a depth of 450 mm from ground level. 100mm thick PCC all around the pipes , excavation, refilling of the trenches shall be paid separately under relevant items. (a) 100 mm diameter	Metre	342.95	3,70,389	308.97	3,33,684
19.138	MR 19.081	1233	(b) 300 mm diameter	Metre	511.24	6,30,359	460.58	5,67,891
19.139	MR 19.082	217	Providing & laying of following 150mm dia PVC pipe (medium duty Sleeve) including chasing, coupler / socket, and sealing of both ends in an approved manner complete as required. 100mm thick PCC all around the pipes , excavation, refilling of the trenches shall be paid separately under relevant items.	Metre	842.67	1,82,859	759.16	1,64,738
19.140	MR 19.083	217	Providing & laying of following 450mm dia PVC pipe (medium duty Sleeve) including chasing, coupler / socket, and sealing of both ends in an approved manner complete as required. 100mm thick PCC all around the pipes , excavation, refilling of the trenches shall be paid separately under relevant items.	Metre	2,023.64	4,39,129	1,823.10	3,95,612
19.141	MR 19.084	226	Supply & Erection of metallic pole of following length over existing foundation with required foundation bolts along with loop in loop out fibre boxes made up of 1.6 mm thick fibre (300mm x 300mm) suitable for AI armoured cable complete with 50A aluminium bus bar inside the box. The box shall have lockable doors made up of fibre. The poles shall be octagonal made up of 3mm thick MS complete with base plates, nut and bolts and bracket arm suitable for mounting the selected fixture etc. complete as required. Cost of foundation and foundation bolts will be paid separately under relevant items. (a) Above 4.5 metre and up to 6.5 metre Base plate size : 200mm x 200mm x 12mm Top dia :70mm Bottom dia : 130mm single sided bracket arm suitable for fixture to be mounted.	Each	9,245.19	20,89,414	8,329.00	18,82,355

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19.142	MR 19.085	70	(b) Above 6.5 metre and up to 8 metre. Base plate size : 225mm x 225mm x 16mm Top dia :70mm Bottom dia : 135mm single sided bracket arm suitable for fixture to be mounted.	Each	17,376.27	12,16,339	15,654.30	10,95,801
19.143	MR 19.086	30	(c) Above 8 metre and up to 10 metre. Base plate size : 275mm x 275mm x 16mm Top dia :70mm Bottom dia : 175mm single sided bracket arm suitable for fixture to be mounted.	Each	22,187.35	6,65,621	19,988.61	5,99,658
19.144	MR 19.087	248	Providing & fixing in position 1000 mm wide , Electrical Insulating Rubber Mats as per IS 15652:2006, 2 mm thick, suitable up to 1.1 KV , fire retardant, no effect of acids, alkalis and transformer oils, moisture proof, high tensile strength and texture finish / cloth impression (Anti slip , marking on top)	Each	1,665.00	4,12,920	1,500.00	3,72,000
19.145	MR 19.088	127	Supply & fixing in position approved shock treatment chart written in English Hindi and Local language. These charts shall be framed in wooden frame & covered with clear glass	Each	136.58	17,345	123.04	15,626
19.146	2.21	136	providing and fixing of MV danger notice plate 200mm x 150mm, made of mild steel at least 2mm thick and vitreous enamelled white on both side and with inscription in single red colour on front side as required.	Each	181.85	24,731	141.00	19,176
19.147	MR 19.089	43	Supply of Tool & First Aid Box with all necessary tools for maintenance of electrical installation & First aid.	Each	638.49	27,455	575.21	24,734
19.148	1.35	9530	CHAPTER- 8 : FIXTURES Installation of following fixtures in all internal and common areas complete in all respect including fixing and connection from nearby terminal to fixture as required. Supply of fixture not included in this item.	Each	67.06	6,39,128	52.00	4,95,560
19.149	1.35	1944	(c) 10W LED Down lighter (recessed)	Each	67.06	1,30,374	52.00	1,01,088
19.150	1.35	2257	(c) 10W LED Down lighter (surface)	Each	67.06	1,51,365	52.00	1,17,364
19.151	1.35	184	(f) 1x20.8W LED Tube light	Each	67.06	12,340	52.00	9,568
19.152	1.35	2598	(h) 1x10W LED wall light	Each	67.06	1,74,235	52.00	1,35,096
19.153	1.35	193	(k) 10W Bulk Head Light	Each	67.06	12,944	52.00	10,036
19.154	1.35	1036	(l) 1 x 3W LED Mirror Light	Each	67.06	69,479	52.00	53,872
19.155	1.35	630	(o) 13W LED Recessed Wall Light	Each	67.06	42,251	52.00	32,760
19.156	MR 19.090	15	(a1) 1x12W Underwater Light	Each	134.13	2,012	120.84	1,813
19.157	MR 19.091	30	(d1) 65W LED Pole Mounted Light (IP65)	Each	167.66	5,030	151.05	4,531
19.158	MR 19.092	296	(e1) 45W LED Post Top Light (IP65)	Each	150.90	44,665	135.94	40,239
19.159	1.35	647	(e1) 9W Foot light	Each	67.06	43,391	52.00	33,644
19.160	MR 19.093	1914	(o) Supplying Ceiling Fan 1200mm sweep complete with capacitor starting assembly, stiff pendent for hanging and wiring from connector / ceiling rose to fan complete with good finish and well painted from factory.	Each	2,069.13	39,60,310	1,864.08	35,67,847
19.161	MR 19.094	17	(o) Supplying Wall Fan complete with all accessories suitable for wall hanging and wiring from connector / ceiling rose to fan complete with good finish and well painted from factory.	Each	1,985.06	33,746	1,788.34	30,402
19.162	MR 19.095	1	CHAPTER- 9 : LT PANELS, SWITCHGEARS AND METERS : Design , fabrication, wiring, Supply, Installation, Testing and Commissioning of following Wall mounted / Floor mounted(including base stand), 415V,3PH, 50Hz extensible and fully compartmentalized panels complying to IS 8623/93. The indoor panels shall be IP 42 and outdoor panels shall be IP 66 type. The Panel shall have proper space with required clearance for cables, incoming / outgoing switchgear, CTs, PTs, Ammeter, Voltmeter, selector switches, Phase wise indicating lamps, and shall be Insulated and properly supported compartmentalized bus bars with heat shrinkable sleeves along with the other control circuit accessories within the panel and any other electrical component mentioned in the Panel SLD. The panel shall be fabricated out of CRCA sheet not less than 2.0 mm thick for load bearing members and 1.6mm for the doors of LT panel. The Panel shall undergo seven tank pre treatment process comprising of degreasing, rinsing, de-rusting, rinsing, phosphatising, rinsing and passivation followed by powder coat painting having a paint thickness of 60 microns or as specified. The Panel shall be Dust/Vermin proof with earth studs as per the SLD and specifications . All the digital meters, multifunction meters shall be communicable with communication port available Feeder Panel-1 (Outdoor Type) Incomer : 1 x 630A , 25kA, FP, MCCB 3 x 630/5A, CL-1, 15VA, Ring type CT 1 x 0-630A & 0-500V Multifunction meter Bus Bar : 800A, 25kA, TPN, Al Bus bar. Outgoing : 2 x 400A , 25kA, FP, MCCB 1 x 630A 25kA FP MCCB	Set	3,63,030.22	3,63,030	3,27,054.25	3,27,054

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Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
19.163	MR 19.096	5	METERING PANEL-1B (Indoor Type) Incomer : Surge arrester 1.6kVp, 75kA with both lightning and switching surge protection protected by MCCB of suitable rating and response with a surge counter. R,Y,B LED indication lamp with 2A control MCB. 0-500V Analogue type voltmeter with selector switch. 400 Amp, FP, 36kA, MCCB (Microprocessor based) , with inbuilt LSIG protection. 3 x (1 x 400/5A,CL-1, 15VA CTs and 0-400A,500V Multifunction meter with inbuilt selector switch). Bus bar : 500A, FP, 36kA, Al bus bar. 400 Amp MCCB bus coupler (with NO+NC and shunt trip coil) Outgoings : 8 x (40 Amp, 36kA, FP, MCCB with 3 x 40/5A,CL-1, 5VA CTs and 0-40A,500V dual source energy meter with inbuilt selector switch). 2 x (40 Amp, 36kA, FP, MCCB) 2 x (63Amp, 36kA, FP, MCCB with 3 x 60/5A,CL-1, 5VA CTs and 0-60A,500V dual source energy meter with inbuilt selector switch). 1 x (63 Amp, 36kA, FP, MCCB) 1 x (100Amp, 36kA, FP, MCCB with 3 x 100/5A,CL-1, 15VA CTs and 0-100A,500V dual source energy meter with inbuilt selector switch). 1 x (100Amp, 36kA, FP, MCCB)	Set	8,96,179.59	44,80,898	8,07,369.00	40,36,845
19.164	MR 19.097	5	HVACPANEL-1B (Outdoor Type) Incomer : Surge arrester 1.6kVp, 75kA with both lightning and switching surge protection protected by MCCB of suitable rating and response with a surge counter. R,Y,B LED indication lamp with 2A control MCB. 0-500V Analogue type voltmeter with selector switch. 125 Amp, FP, 36kA, MCCB (Microprocessor based) , with inbuilt LSIG protection. 3 x (1 x 125/5A,CL-1, 15VA CTs and 0-125A,500V Multifunction meter with inbuilt selector switch). Bus bar : 200A, FP, 36kA, Al bus bar. Outgoings : 4 x 13kW star delta starter , 32A 36 kA, FP, MPCB with OLR range 12.5-20A, 38A delta contactor and 16A star contactor. 2 x (32Amp, 36kA, FP, MCCB)	Set	4,22,933.17	21,14,666	3,81,020.88	19,05,104
19.165	MR 19.098	7	METERING PANEL-T2 (Indoor Type) Incomer : Surge arrester 1.6kVp, 75kA with both lightning and switching surge protection protected by MCCB of suitable rating and response with a surge counter. R,Y,B LED indication lamp with 2A control MCB. 0-500V Analogue type voltmeter with selector switch. 400 Amp, FP, 36kA, MCCB (Microprocessor based) , with inbuilt LSIG protection. 3 x (1 x 400/5A,CL-1, 15VA CTs and 0-400A,500V Multifunction meter with inbuilt selector switch). Bus bar : 500A, FP, 36kA, Al bus bar. 400 Amp MCCB bus coupler (with NO+NC and shunt trip coil) Outgoings : 1 x (1000 Amp, FP, 36kA, EDO type ACB with 4Nos. 1000/5A, CL-1 8 x (40 Amp, 36kA, FP, MCCB with 3 x 40/5A,CL-1, 5VA CTs and 0-40A,500V dual source energy meter with inbuilt selector switch). 2 x (63 Amp, 36kA, FP, MCCB) 2x (125Amp, 36kA, FP, MCCB with 3 x 125/5A,CL-1, 15VA CTs and 0-125A,500V dual source energy meter with inbuilt selector switch). 1 x (125Amp, 36kA, FP, MCCB)	Set	8,34,534.21	58,41,739	7,51,832.63	52,62,828
19.166	MR 19.099	7	HVACPANEL-T2 (Outdoor Type) Incomer : Surge arrester 1.6kVp, 75kA with both lightning and switching surge protection protected by MCCB of suitable rating and response with a surge counter. R,Y,B LED indication lamp with 2A control MCB. 0-500V Analogue type voltmeter with selector switch. 125 Amp, FP, 36kA, MCCB (Microprocessor based) , with inbuilt LSIG protection. 3 x (1 x 125/5A,CL-1, 15VA CTs and 0-125A,500V Multifunction meter with inbuilt selector switch). Bus bar : 150A, FP, 36kA, Al bus bar. Outgoings : 4 x 23.4kW star delta starter , 63A 36 kA, FP, MPCB with OLR range 20-32A, 75A delta contactor and 32A star contactor. 1 x (63Amp, 36kA, FP, MCCB)	Set	4,67,329.84	32,71,309	4,21,017.88	29,47,125

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.								
Subject :- Schedule-B								
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
19.167	MR 19.100	7	METERING PANEL-T3 (Indoor Type) Incomer : Surge arrester 1.6kVp, 75kA with both lightning and switching surge protection protected by MCCB of suitable rating and response with a surge counter. R,Y,B LED indication lamp with 2A control MCB. 0-500V Analogue type voltmeter with selector switch. 400 Amp, FP, 36kA, MCCB (Microprocessor based) , with inbuilt LSIG protection. 3 x (1 x 400/5A,CL-1, 15VA CTs and 0-400A,500V Multifunction meter with inbuilt selector switch). Bus bar : 500A, FP, 36kA, Al bus bar. 400 Amp MCCB bus coupler (with NO+NC and shunt trip coil) Outgoings : 1 x (1000 Amp, FP, 36kA, EDO type ACB with 4Nos. 1000/5A, CL-1 8 x (40 Amp, 36kA, FP, MCCB with 3 x 40/5A,CL-1, 5VA CTs and 0-40A,500V dual source energy meter with inbuilt selector switch). 2 x (63 Amp, 36kA, FP, MCCB) 2x (100Amp, 36kA, FP, MCCB with 3 x 100/5A,CL-1, 10VA CTs and 0-125A,500V dual source energy meter with inbuilt selector switch). 1 x (100Amp, 36kA, FP, MCCB)	Set	8,12,485.87	56,87,401	7,31,969.25	51,23,785
19.168	MR 19.101	7	HVACPANEL-3 (Outdoor Type) Incomer : Surge arrester 1.6kVp, 75kA with both lightning and switching surge protection protected by MCCB of suitable rating and response with a surge counter. R,Y,B LED indication lamp with 2A control MCB. 0-500V Analogue type voltmeter with selector switch. 100 Amp, FP, 36kA, MCCB (Microprocessor based) , with inbuilt LSIG protection. 3 x (1 x 100/5A,CL-1, 10VA CTs and 0-100A,500V Multifunction meter with inbuilt selector switch). Bus bar : 200A, FP, 36kA, Al bus bar. Outgoings : 4 x 15kW star delta starter , 32A 36 kA, FP, MPCB with OLR range 12.5-20A, 38A delta contactor and 16A star contactor. 2 x (32Amp, 36kA, FP, MCCB)	Set	4,21,133.31	29,47,933	3,79,399.38	26,55,796
19.169	MR 19.102	1	Feeder Panel-2 (Outdoor Type) Incomer : 1 x 400A , 25kA, FP, MCCB 3 x 400/5A, CL-1, 15VA, Ring type CT 1 x 0-400A & 0-500V Multifunction meter Bus Bar : 500A, 25kA, TPN, Al Bus bar. Outgoing : 9 x 63A , 25kA, FP, MCCB 1 x 400A , 25kA, FP, MCCB 2 x 63A, 10kA, FP, C Curve MCB with astronomical switch for external lighting	Set	3,97,527.63	3,97,528	3,58,133.00	3,58,133
19.170	MR 19.103	1	Feeder Panel-3 (Outdoor Type) Incomer : 1 x 630A , 25kA, FP, MCCB 3 x 400/5A, CL-1, 15VA, Ring type CT 1 x 0-400A & 0-500V Multifunction meter Bus Bar : 500A, 25kA, TPN, Al Bus bar. Outgoing : 4 x 400A , 25kA, FP, MCCB 1 x 630A , 25kA, FP, MCCB 2 x 63A, 10kA, FP, C Curve MCB with astronomical switch for external lighting	Set	4,76,121.74	4,76,122	4,28,938.50	4,28,939
19.171	MR 19.104	1	Feeder Panel-4 (Outdoor Type) Incomer : 1 x 400A , 25kA, FP, MCCB 3 x 400/5A, CL-1, 15VA, Ring type CT 1 x 0-400A & 0-500V Multifunction meter Bus Bar : 500A, 25kA, TPN, Al Bus bar. Outgoing : 7 x 63A , 25kA, FP, MCCB 1 x 400A , 25kA, FP, MCCB 2 x 63A, 10kA, FP, C Curve MCB with astronomical switch for external lighting	Set	3,67,529.88	3,67,530	3,31,108.00	3,31,108
19.172	MR 19.105	1	Feeder Panel-5 (Outdoor Type) Incomer : 1 x 800A , 25kA, FP, MCCB 3 x 800/5A, CL-1, 15VA, Ring type CT 1 x 0-800A & 0-500V Multifunction meter Bus Bar : 1000A, 25kA, TPN, Al Bus bar. Outgoing : 5 x 400A , 25kA, FP, MCCB 1 x 800A , 25kA, FP, MCCB 2 x 63A, 10kA, FP, C Curve MCB with astronomical switch for external lighting	Set	7,09,504.23	7,09,504	6,39,193.00	6,39,193
19.173	MR 19.106	2	Feeder Panel-6,8 (Outdoor Type) Incomer : 1 x 400A , 25kA, FP, MCCB 3 x 400/5A, CL-1, 15VA, Ring type CT 1 x 0-400A & 0-500V Multifunction meter Bus Bar : 500A, 25kA, TPN, Al Bus bar. Outgoing : 8 x 63A , 25kA, FP, MCCB 1 x 400A , 25kA, FP, MCCB 2 x 63A, 10kA, FP, C Curve MCB with astronomical switch for external lighting	Set	3,82,528.76	7,65,058	3,44,620.50	6,89,241

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.								
Subject :- Schedule-B								
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
19.174	MR 19.107	1	Feeder Panel-7 (Outdoor Type) Incomer : 1 x 1000A , 36kA, FP, ACB 3 x 1000/5A, CL-1, 15VA, Ring type CT 1 x 0-1000A & 0-500V Multifunction meter Bus Bar : 1000A, 25kA, TPN, Al Bus bar. Outgoing : 6 x 400A , 25kA, FP, MCCB 1 x 800A , 25kA, FP, MCCB 2 x 63A, 10kA, FP, C Curve MCB with astronomical switch for external lighting	Set	7,92,598.00	7,92,598	7,14,052.25	7,14,052
19.175	MR 19.108	1	Feeder Panel-9 (Outdoor Type) Incomer : 1 x 630A , 25kA, FP, MCCB 3 x 600/5A, CL-1, 15VA, Ring type CT 1 x 0-630A & 0-500V Multifunction meter Bus Bar : 800A, 25kA, TPN, Al Bus bar. Outgoing : 3 x 400A , 25kA, FP, MCCB 1 x 630A , 25kA, FP, MCCB 2 x 63A, 10kA, FP, C Curve MCB with astronomical switch for external lighting	Set	4,11,926.55	4,11,927	3,71,105.00	3,71,105
19.176	MR 19.109	1	Feeder Panel-10 (Outdoor Type) Incomer : 1 x 400A , 25kA, FP, MCCB 3 x 400/5A, CL-1, 15VA, Ring type CT 1 x 0-400A & 0-500V Multifunction meter Bus Bar : 500A, 25kA, TPN, Al Bus bar. Outgoing : 10 x 63A , 25kA, FP, MCCB 1 x 400A , 25kA, FP, MCCB 2 x 63A, 10kA, FP, C Curve MCB with astronomical switch for external lighting	Set	4,82,871.23	4,82,871	4,35,019.13	4,35,019
19.177	MR 19.110	41	Building Metering Panel (Indoor Type) Incomer : 1 x 100A , 25kA, FP, MCCB 3 x 100/5A, CL-1, 15VA, Ring type CT 1 x 0-100A & 0-500V Multifunction meter Bus Bar : 200A, 25kA, TPN, Al Bus bar with 1 x 100A , 25kA, FP , MCCB bus coupler Outgoing : 9 x 63A, 10kA, DP, C Curve MCB 7 x 63A, 10kA, FP, C Curve MCB	Set	1,17,026.33	47,98,079	1,05,429.13	43,22,594
19.178	MR 19.111	4	Feeder Panel (Indoor Type)(For Cluster1,3,4,5) Incomer : 1 x 400A , 25kA, FP, MCCB 3 x 400/5A, CL-1, 15VA, Ring type CT 1 x 0-400A & 0-500V Multifunction meter Bus Bar : 500A, 25kA, TPN, Al Bus bar. Outgoing : 9 x 100A , 25kA, FP, MCCB 3 x 63A, 10kA, FP, C Curve MCB with astronomical switch for external lighting	Set	3,68,129.84	14,72,519	3,31,648.50	13,26,594
19.179	MR 19.112	2	Feeder Panel (Indoor Type)(For Cluster 2,6) Incomer : 1 x 400A , 25kA, FP, MCCB 3 x 400/5A, CL-1, 15VA, Ring type CT 1 x 0-400A & 0-500V Multifunction meter Bus Bar : 500A, 25kA, TPN, Al Bus bar. Outgoing : 7 x 100A , 25kA, FP, MCCB 3 x 63A, 10kA, FP, C Curve MCB with astronomical switch for external lighting	Set	3,37,532.13	6,75,064	3,04,083.00	6,08,166
19.180	MR 19.113	41	KWH METERS CT OPERATED Supply, installation & wiring Three phase electronic CT Operated dual source meter, with communication port suitable for 415 Volts, 50 Hz, up to 50 KW connection with display of LCD backlit, Measurements of kWh / kW and Time of Day feature. (The rate shall also include the item required for fixing meter i.e.. wooden ply, nuts, bolts and all other accessories required to complete the job in full respect.)	No	29,870.10	12,24,674	26,910.00	11,03,310
19.181	MR 19.114	130	Supplying and fixing IP-55 rated, CRCA enclosure 2mm thick for load bearing members and 1.6 mm thick for doors, suitable for fixing MCBs of & upto 100A FP, size and Isolators, complete with making cut outs and holes in the enclosure, fixing with nut, bolts, making enclosure air tight, fixing supports etc. as required but excluding the cost of MCB and Isolator	Set	5,233.65	6,80,375	4,715.00	6,12,950
19.182	MR 19.115	20	Supplying and fixing 400mm x 400mm x 150 mm IP-55 rated, CRCA enclosure 2mm thick, for load bearing members and 1.6 mm thick for doors, suitable for fixing earth bus bars of size 32 x 6 mm GI, complete with making cut outs and holes in the enclosure, fixing with nut, bolts, making enclosure air tight, fixing supports etc. as required.	Set	7,255.63	1,45,113	6,536.60	1,30,732
19.183	MR 19.116	117	Supplying and fixing 100mm x 100mm x 50 mm GI adapter box, with cover plate made up of same finish to be used as a junction between raceways and conduits, bus bars and cables, conduits and conduits complete with making cut outs and holes in the box, fixing with nut, bolts, fixing supports etc. as required.	Set	6,254.85	7,31,817	5,635.00	6,59,295
			Subtotal of Electrical work		6,73,84,453	19,81,60,807		17,00,64,331
			Subtotal of NON SOR Electrical work			13,07,76,354		11,78,16,535
	20		Elevators					

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.								
Subject :- Schedule-B								
Sr.no	DSR'14	Total Quantity	Description	Unit	Total Rate of with Cost Index & Local Tax	Total Amount of with Cost Index & Local Tax	DSR/MARKET ESTIMATED RATE	DSR/MARKET ESTIMATED AMOUNT
20.001	MR- 20.001 .	19	Supply, installation, testing and commissioning of vertical transportation system (Passenger Lift, refer technical specs) with machine of capacity as mentioned in technical specifications (13 passengers / persons) Simplex and at a speed of a 1.0 mp, including all necessary ancillaries and accessories as specified in the tender documents. It shall complying with all Statutory requirements of the local competent Authorities and IS-14665. The lift / elevator shall be suitable for landing at total 4 stops and 4 opening .(approximate travel distance 9.90 Mt.) Faculty Apartment	Nos	28,98,711	5,50,75,502	26,11,451	4,96,17,569
20.002	MR- 20.002 .	1	Preparation of necessary Drawings, getting approval from the statutory authorities before taking up work and to furnish Completion Report arranging for Inspection, giving trial run on with load, obtaining approval for commissioning the sets by paying necessary fee for inspection, etc., complete for all passengers and goods lifts. (Necessary statutory fees will be re-imbursed to the Contractor after producing the receipts).	Nos	5,15,706	5,15,706	4,64,600	4,64,600
			Subtotal of Elevators			5,55,91,208		5,00,82,169
			Subtotal of NON DSR Work			5,55,91,208		5,00,82,169
	21		Horticulture & landscaping Work					
21.001	MR 21.001	233	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes vertically in tree-pits complete as directed by EIC including supply of all material, labour and equipment up to any lead and lift, 900mm dia RCC pipe	Rmt	2,009	4,68,120	1,810	4,21,730
21.002	MR 21.002	482	Supply & application of bentonite clay lining with average thickness of 75mm to bottom & sides surfaces of water bodies, clearing and levelling the surface before application of bentonite using a 500kg roller such that no part of the surface extends out from surroundings by more than 100mm, rolling & consolidating after application with 500kg roller, checking for leaks by local filling of water and sealing the same with bentonite complete, including supply of all material, labour and equipment as required, up to any lead and lift; as directed by Engineer-in-Charge	Cum	4,654	22,43,339	4,193	20,21,026
21.003	MR 21.003	452	Supply & spreading of graded moorum up to 300 mm for play areas, in layers not exceeding 100mm thick and consolidating with 8 tonne roller, complete including supply of all material, labour and equipment, up to any lead and lift as directed by EIC	Cum	246	1,11,416	222	1,00,375
21.004	MR 21.004	8	Supply, fabrication and installation of play structure comprising of SS 304 slide for children, wooden deck, ladders, Nylon rope climbing net, Pergola house and the supporting structure of all the components as per final detailed drawing. The rate to include necessary painting of MS structures with approved colour Epoxy paint and all wooden members to be applied with PU coating etc. complete including all labour, equipment, material, up to any lead and lift as directed by EIC	nos	2,78,856	22,30,852	2,51,222	20,09,776
21.005	23.28	7751	Preparation of mounds of various size and shape by available excavated / supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of each layer, dressing etc., lead up to 50 meter and lift up to 1.5 m complete as per direction of Officer-in-charge.	Cum	356	27,60,843	276	21,40,671
			Subtotal of Horticulture & landscaping Work			78,14,570		66,93,578
			Subtotal of NON DSR Work			50,53,727		45,52,907
	22		Road work					
22.001	NH SOR 3.18	5500	Construction of Subgrade and Earthen Shoulders. (Construction of embankment for subgrade and earthen shoulders with approved material obtained from borrow pits with all lifts and lead up to 1000 m, transporting to site, spreading, grading to required slope and compacting to meet requirement of MoRTH table 300-2)	Cum.	105	5,76,622	81	4,47,095
22.002	16.11	1284	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	Sqm	545	7,00,151	423	5,42,875
22.003	16.12.1	1284	Dry brick pitching half brick thick in drains including supply of bricks and preparing the surface complete : With common burnt clay F.P.S. (non modular) bricks of class designation 5	Sqm	565	7,25,984	438	5,62,906
22.004	16.90	1568	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having with water absorption less than 0.5% and conforming to IS: 15622 of approved make in all colours and shades in for outdoor floors such as footpath, court yard, multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	Sqm	1,856	29,10,745	1,439	22,56,901
22.005	NH SOR 8.2 A	1672	Construction of cement concrete kerb 150 mm thick, 400 mm high in M 20 grade, kerb stone laid with kerb laying machine, foundation concrete laid manually, all complete as per MoRTH clause 408 (B) Using Concrete Batching and Mixing Plant	Rmt	303	5,06,752	235	3,92,920
22.006	NH SOR 4.1 A	1983	Construction of granular sub-base by providing coarse graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MoRTH clause 401 for grading- I Material	Cum.	1,243	24,65,423	964	19,11,612
22.007	NH SOR 4.12	2822	Wet Mix Macadam : Providing laying, spreading and compacting graded stone aggregate to wet mix macadam specifications including premixing the materials with water at OMC, in mechanical mix plant carriage of mix material by tipper to site, laying in uniform layers of 100/125 mm thick compacted macadam with paver in sub base/base course on well prepared surface and compacting with vibratory roller to achieve desired density as per relevant MoRTH clause 406	Cum	1,571	44,32,983	1,218	34,37,196
22.008	DSR 16.68	6067	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	Sqm.	777	47,12,013	602	36,53,547
22.009	MR- 22.001 .	3730	Providing and laying factory made chamfered edge Cement Concrete paver blocks of required strength, thickness & size/shape, made by table vibratory method, to attain superior smooth finish using PU or equivalent moulds, laid in required Grey colour & pattern over 50mm thick compacted bed of coarse sand, compacting and proper embedding / laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with coarse sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks, lawns, drive ways or light traffic parking etc. all complete as per manufacturer's specifications & direction of Engineer -in-Charge: (a) 80 mm thick c.c. paver block of M-30 grade with approved colour design and pattern.	Sqm	819	30,54,299	738	27,51,621
			Subtotal of Road work			2,00,84,974		1,59,56,673
			Subtotal of NON DSR Work			59,65,045		27,51,621