Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total 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**			

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
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 precussion 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	5,60,66,611.92
1.002	20.2.4	199	(b) :500 mm dia piles	Metre	2,519.90	5,01,207.70
1.003	20.2.5	51259	(c) : 600 mm dia piles	Metre	3,444.81	17,65,77,656.19
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 pilling 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	3,41,36,172.90
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	39,78,680.04
1.006	20.6.1.2	33	(b) :Routine test (Test Load 1.5 times the safe capacity)	Per test	22,469.96	7,41,508.52
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	3,62,215.68
1.008	20.6.2.2	1	(b) :Routine test (Test Load 1.5 times the safe capacity)	Per test	34,453.93	34,453.93
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	3,81,989.24
1.010	20.8.2	1	(b) : Above 50 tonne and up to 100 tonne capacity pile	Per test	35,352.73	35,352.73
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	16,345.13
			Subtotal of Pile Work			**27,28,32,194**
	2		**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	2,35,23,136.58

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Subject :- Schedule-B (DSR Items)						
Sr.no	DSR'14	Total Quantity	Description	Unit	Rate	Total Amount
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	4,35,98,817.44
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	18,14,959.11
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	2,60,81,211.96
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	-19,345.64
2.006	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	60,94,111.82
2.007	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	54,31,641.70
2.008	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	1,14,95,392.99
2.009	2.36	1000	Deduct for disposed soil not levelled and neatly dressed.	Cum	-43.79	-43,785.62
2.010	1.1.2	112730	Carriage of Earth with mechanical Transport (a) up to 1 km Including Loading, Unloading and stacking	Cum	128.25	1,44,57,471.78
2.011	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	1,97,890.37
2.012	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	3,805.29
2.013	2.33.2	50	(b) : Beyond 60 cm girth up to and including 120 cm girth	Nos	1,123.47	56,173.28
2.014	2.33.3	23	(c) : Beyond 120 cm girth up to and including 240 cm girth	Nos	5,196.30	1,19,514.95
2.015	2.33.4	1	(d) : Above 240 cm girth	Nos	10,421.43	10,421.43
			Subtotal of Earth Work			**13,28,21,417**
	3		**Concrete work**			
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	5,16,399.48
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	48,81,724.02
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	4,12,15,932.76
			Subtotal of Concrete Work			**4,66,14,056**
	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	6,24,081.17
4.002	5.9.2	25387	(b) : Walls (any thickness) including attached pilasters, buttresses, plinth and string courses & kerb etc.	Sqm	465.33	1,18,13,256.73
4.003	5.9.3	46854	(c) : Suspended floors, roofs, landings, balconies and access platform	Sqm	518.01	2,42,70,916.44
4.004	5.9.4	88	(d) : Shelves (Cast in situ)	Sqm	518.01	45,585.02
4.005	5.9.5	57549	(e) : Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	428.38	2,46,52,659.02

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	DSR'14	Total Quantity	Description	Unit	Rate	Total Amount
4.006	5.9.6	23477	(f) : Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	584.69	1,37,26,757.16
4.007	5.9.7	4683	(g) : Stairs, (excluding landings) except spiral-staircases	Sqm	510.27	23,89,610.17
4.008	5.9.9	897	(h) : Arches, domes, vaults up to 6 m span	Sqm	1,375.22	12,33,569.39
4.009	5.9.14	350	(i) : Extra for shuttering in circular work	Sqm	103.60	36,260.81
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	74,108.77
4.011	5.9.19	130	(k) : Weather shade, Chajjas, corbels etc., including edges	Sqm	634.99	82,548.47
4.012	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	34,33,19,006.21
4.013	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	15,26,07,333.26
4.014	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	12,75,60,242.54
4.015	5.33.2	15659	(b) : All works above plinth level up to floor V level	Cum	9,046.73	14,16,62,717.92
4.016	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	1,56,183.12
4.017	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	75,820.27
4.018	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	1,57,795.90
4.019	5.42.2	750	(b) :Coupler for 20 mm diameter reinforcement bar	Nos	214.67	1,61,004.05
4.020	5.42.3	500	(c) :Coupler for 25 mm diameter reinforcement bar	Nos	296.89	1,48,445.51
4.021	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	6,96,701.45
			Subtotal of Reinforced Cement Concrete Work			**84,54,94,603**
	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	7,96,98,634.24
5.002	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	1,59,69,788.55
5.003	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	44,52,298.59
5.004	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	34,687.50

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	DSR'14	Total Quantity	Description	Unit	Rate	Total Amount
5.005	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	24,601.20
5.006	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	20,59,326.72
5.007	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	37,279.04
5.008	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	2,476.24
			Subtotal of Brick Work			**10,22,79,092**
	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	56,848.60
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	1,18,798.97
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	49,33,007.95
6.004	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	98,252.10
			Subtotal of Stone Work			**52,06,908**
	7		**Marble & Granite Work**			
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	46,96,729.14
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	5,40,505.50
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	7,39,924.63
7.004	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	1,25,528.02
			Subtotal of Marble & Granite Work			**61,02,687**
	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	6,52,56,419.60

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Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
8.002	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	47,20,604.23
8.003	9.7.7.2	6960	(c) : Float glass panes 5.0 mm thick glass panes	Sqm	1,814.30	1,26,27,515.02
8.004	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	1,25,50,642.18
8.005	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	1,56,68,501.87
8.006	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	64,681.87
8.007	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	1,06,34,058.25
8.008	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 unto 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	4,09,359.83
8.009	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	1,57,783.00
8.010	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	3,69,379.11
8.011	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	7,68,953.52
			Subtotal of Wood & PVC Work			**12,32,27,898**
	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	1,38,134.28
9.002	10.7	5	Providing and fixing ball bearing for rolling shutters.	Nos	566.12	2,830.59
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	67,308.88
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	3,640.07

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total 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	35,17,506.54
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. (a) : In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	Kg	97.12	48,557.54
9.007	10.25.2	41167	(b) : In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	116.20	47,83,719.88
9.008	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	8,24,373.61
9.009	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	42,53,315.83
9.010	10.27.2	20892	(b) :10 x 80 mm	Nos	91.25	19,06,330.48
9.011	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	2,20,481.43
			Subtotal of Steel Work			**1,57,66,199**
	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	16,53,733.88
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	20,09,263.64
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	1,84,70,110.63
10.004	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	52,88,171.24
10.005	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	22,93,020.13
10.006	11.31	77	Extra for pre finished nosing in treads of steps of Kota stone/ sand stone slab.	Rmt	97.76	7,527.52
10.007	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	49,673.27
10.008	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	2,23,32,788.12

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
10.009	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	3,02,868.30
10.010	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	4,20,423.98
10.011	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	5,06,20,957.21
10.012	11.41.3	3104	(b) : Size of Tile 800x800 mm	Sqm	1,964.03	60,96,359.52
10.013	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	87,56,703.41
10.014	11.46.3	536	(b) : Size of Tile 800x800 mm	Sqm	1,978.99	10,60,740.77
10.015	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	81,669.73
			Subtotal of Flooring Work			**11,94,44,011**
	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	5,99,811.41
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	1,27,824.54
			Subtotal of Roofing Work			**7,27,636**
	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	2,55,47,383.61
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	21,77,831.06
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	38,44,589.77
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	11,84,106.08
12.005	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	21,68,096.85
12.006	13.31.2	204	(b) : Raised and cut pointing	Sqm	222.41	45,260.50

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
12.007	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	5,913.96
12.008	13.33.2	15	(b) : Raised and cut pointing	Sqm	356.86	5,352.94
12.009	13.37.1	1798	White washing with lime to give an even shade : New work (three or more coats)	Sqm	20.89	37,566.13
12.010	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	1,32,58,421.97
12.011	13.41.1	4860	Distempering 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	5,62,238.32
12.012	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	2,24,707.29
12.013	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	6,62,160.78
12.014	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	1,11,43,581.65
12.015	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	9,234.32
12.016	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	6,59,995.68
12.017	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	3,67,822.23
12.018	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	3,83,832.87
			Subtotal of Finishing Work			**6,22,88,096**
	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	2,27,597.53
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	51,74,334.82

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
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 sufferce 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 -	Sqm	1,356.02	2,06,33,248.33
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	43,89,661.36
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	60,18,994.78
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	21,53,786.11
			Subtotal of Water Proofing Work			**3,85,97,623**
	14.0		**SANITARY WORK**			
14.001	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	3,63,185.15
			Subtotal of Sanitary work			**3,63,185**
	15		**INTERNAL DRAINAGE**			
15.001	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	18,764.49
15.002	18.8.1	20786	INTERNAL WATER SUPPLY SYSTEM Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes SDR-11 confirming 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	72,38,130.64
15.003	18.8.2	3428	b) 20mm nominal dia	metre	382.27	13,10,535.38
15.004	18.8.3	14	c) 25mm nominal dia	metre	453.07	6,478.97

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	DSR'14	Total Quantity	Description	Unit	Rate	Total Amount
15.005	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	19,13,434.46
15.006	18.7.2	9581	b) 20 mm nominal outer dia	metre	210.61	20,17,849.43
15.007	18.7.3	8354	c) 25 mm nominal outer dia	metre	270.19	22,57,200.97
15.008	18.7.4	4549	d) 32 mm nominal outer dia	metre	338.36	15,39,177.61
15.009	18.7.5	4037	e) 40 mm nominal outer dia	metre	452.04	18,24,897.61
15.010	18.7.6	2980	f) 50 mm nominal outer dia	metre	675.94	20,14,290.73
15.011	18.19.1.1	97	c) 25 mm nominal dia	each	575.34	55,807.90
15.012	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	12,180.01
			Subtotal of Internal Plumbing work			**2,02,08,748**
	16.0		**EXTERNAL PLUMBING WORK**			
16.001	DSR 2014 2.8.1	3353	EXTERNAL PLUMBING WORKS 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	6,81,153.70
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	14,83,196.69
16.003	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	23,35,869.35
16.004	DSR 2014 19.6.3	1805	b) 250mm dia R.C.C. pipe	metre	604.36	10,90,865.54
16.005	DSR 2014 19.6.4	276	c) 300mm dia R.C.C. pipe	metre	653.04	1,80,240.19
16.006	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	81,248.77
16.007	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	86,92,264.64
16.008	DSR 2014 19.2.3	674	b) 200mm nominal dia.	metre	1,089.61	7,34,397.58
16.009	DSR 2014 19.2.4	697	c) 250mm dia nominal dia.	metre	1,260.05	8,78,251.85
16.010	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	14,54,021.80

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
16.011	DSR 2014 19.3.5	276	b) 300mm nominal dia	metre	929.49	2,56,540.14
16.012	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	6,27,155.50
16.013	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	20,99,828.55
16.014	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	3,39,763.69
16.015	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	18,48,310.60
16.016	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	3,58,479.47
16.017	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	19,84,804.11
16.018	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	6,31,721.84

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
16.019	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	5,59,809.54
16.020	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	8,11,453.43
16.021	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	1,12,415.16
16.022	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	23,32,538.68
16.023	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	3,89,793.29
16.024	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	2,42,055.16
16.025	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	50,616.56

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
16.026	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	38,07,129.40
16.027	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	4,36,298.24
16.028	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	1,48,47,387.95
16.029	18.9.5	1418	b) 40 mm nominal outer dia Pipes SDR 11	metre	452.04	6,40,996.98
16.030	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	670.65
16.031	DSR 2014 18.40.5	50	b)40 mm nominal inner dia Pipes	metre	15.28	764.15
16.032	DSR 2014 18.40.6	50	c)50 mm nominal inner dia Pipes	metre	18.25	912.47
16.033	DSR 2014 18.40.7	80	d)65 mm nominal inner dia Pipes	metre	22.51	1,800.43
16.034	DSR 2014 18.40.8	150	e)80 mm nominal inner dia Pipes	metre	26.12	3,917.49
16.035	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	15,68,589.23
16.036	DSR 2014 18.9.2	1418	b) 20 mm nominal outer dia Pipes	metre	210.61	2,98,644.24
16.037	DSR 2014 18.9.6	250	c) 32 mm nominal outer dia Pipes	metre	675.94	1,68,984.12
16.038	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	88,88,932.37
16.039	18.9.4	1445	b) 32 mm nominal outer dia Pipes SDR 11	metre	338.36	4,88,923.20
16.040	18.9.5	250	c) 40 mm nominal outer dia Pipes SDR 11	metre	452.04	1,13,010.75
16.041	18.9.7	1400	c) 62.5 mm nominal dia Pipes SCH 80	metre	1,886.01	26,40,408.34
			Subtotal of External Plumbing work			**6,41,64,166**
	17.0		**PUMPS, TREATMENT SYSTEM & EQUIPMENTS**			
	18.0		**FIRE FIGHTING WORKS**			

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
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	1,72,858.41
18.012	DSR E&M 16.7.1.5	41	b) 80mm nominal dia	each	4,691.96	1,92,370.42
18.013	DSR E&M 16.7.1.4	5	c) 100mm nominal dia	each	6,712.94	33,564.68
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	31,907.40
18.015	DSR E&M 16.7.4.4	24	c)100mm nominal dia	each	8,777.76	2,10,666.23
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	73,080.07
18.017	DSR E&M 16.7.3.5	24	80 mm dia	each	3,518.33	84,439.83
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 accessorised required to complete the job in full respect. 4C X 25 Sq. mm Cu2XY	each	319.85	26,227.52
18.027	DSR EnM 2014 9.1.1	82	2C X 2.5 sq.mm. 2XY	each	412.69	33,840.91
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	37,543.43
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	7,402.93
			Subtotal of Fire fighting work			**9,03,902**
	19.0		**ELECTRICAL WORK**			

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
			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			
19.001	1.14.2	89481	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.	Metre	168.95	1,51,18,006.74
19.002	1.14.3	21348	(b)2 x 4 sq.mm. + 1 x 4 sq.mm. earth wire	Metre	208.93	44,60,365.51
19.003	1.14.4	500	(c)2 x 6 sq.mm. + 1 x 6 sq.mm. earth wire	Metre	285.03	1,42,512.84
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	15,21,701.85
19.005	1.21.3	7959	(b) : 32 mm	Metre	109.63	8,72,551.33
19.006	1.21.4	250	(c) : 40 mm	Metre	141.87	35,467.00
19.007	1.21.5	40	(d) : 50 mm	Metre	185.72	7,428.72
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	54,941.60
19.009	1.20.3	406	(b) : 32 mm	Metre	248.91	1,01,059.02
19.010	1.20.4	434	(c) : 40 mm	Metre	370.15	1,60,643.57
19.011	1.20.5	735	(d) : 50 mm	Metre	499.12	3,66,851.28
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	3,39,270.85
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	5,62,852.74

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	DSR'14	Total Quantity	Description	Unit	Rate	Total Amount
19.014	1.18.2	0	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmoured telephone cable in the existing surface/ recessed steel/ PVC conduit as required. (a)2 Pair	Metre	23.21	-
19.015	1.18.3	0	(b)4 Pair	Metre	34.82	-
19.016	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	6,50,410.57
19.017	1.27.2	6192	(b) : 3 Module (100mm x 75mm)	Each	225.70	13,97,528.67
19.018	1.27.3	35	(c) : 4 Module (125mm x 75mm)	Each	251.49	8,802.26
19.019	1.27.4	1655	(d) : 6 Module (200mm x 75mm)	Each	319.85	5,29,348.16
19.020	1.27.6	314	(f) : 12 Module (200mm x 150mm)	Each	430.76	1,35,259.52
19.021	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	8,26,914.98
19.022	1.24.5	679	(b) : 6 pin 15/16 amp socket outlet	Each	193.46	1,31,356.86
19.023	1.24.1	8116	(d) : 5/6 amps switch	Each	104.47	8,47,849.54
19.024	1.24.3	679	(e) : 15/16 amp switch	Each	143.16	97,204.08
19.025	1.24.6	1167	(f) : Telephone socket outlet	Each	122.52	1,42,983.59
19.026	1.24.7	958	(g): TV antenna socket outlet	Each	121.23	1,16,140.87
19.027	1.24.8	244	(h): Bell Push	Each	143.16	34,930.48
19.028	1.38	244	(i): Supplying and fixing call bell / buzzer suitable for single phase, 230 volts, complete as required.	Each	78.67	19,196.03
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	73,268.37
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	7,01,054.86
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	2,460.76
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	6,378.90
19.033	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	5,597.34
19.034	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. (a) Group A	Each	668.07	47,56,653.15
19.035	1.10.2	20124	(b) Group B	Each	754.48	1,51,83,150.79
19.036	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	55,98,962.09
19.037	1.34	32882	Supplying and fixing of brass batten / angle holder / connectors including connections etc. as required.	Each	95.44	31,38,207.64
19.038	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	2,34,507.79

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	DSR'14	Total Quantity	Description	Unit	Rate	Total Amount
19.039	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	3,54,133.46
19.040	1.51	1346	Extra for fixing the louvers / shutters complete with frame for a exhaust fan of all sizes.	Each	116.07	1,56,235.35
19.041	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	2,082.88
19.042	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. (a) Single pole	Each	217.96	17,28,865.23
19.043	2.10.3	199	(b) Double pole	Each	591.98	1,17,803.31
19.044	2.10.4	36	(c) Triple pole	Each	897.64	32,314.95
19.045	2.14.2	274	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 (b) 40 amps	Each	2,210.56	6,05,693.78
19.046	2.14.3	141	(c) 63 amps	Each	2,885.08	4,06,796.14
19.047	2.11	1279	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	9.03	11,546.76
19.048	2.13.1	15	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	849.92	12,748.77
19.049	2.13.1	12	(b) 40 Amp	Each	849.92	10,199.02
19.050	2.13.2	10	(c) 63 Amp	Each	864.11	8,641.05
19.051	5.70	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	2,89,511.30
19.052	5.90	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	5,73,137.65
19.053	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	78,827.01
19.054	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	7,89,951.92
19.055	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	3,35,117.99
19.056	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	20,119.46
19.057	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	12,39,389.23

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Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
19.058	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	4,72,148.28
19.059	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	4,57,130.91
19.060	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	24,731.46
19.061	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. (c) 14W LED Down lighter (Surface)	Each	67.06	6,39,128.19
19.062	1.35	1944	(c) 10W LED Down lighter (recessed)	Each	67.06	1,30,374.10
19.063	1.35	2257	(c) 10W LED Down lighter (surface)	Each	67.06	1,51,365.41
19.064	1.35	184	(f) 1x20.8W LED Tube light	Each	67.06	12,339.94
19.065	1.35	2598	(h) 1x10W LED wall light	Each	67.06	1,74,234.53
19.066	1.35	193	(k) 10W Bulk Head Light	Each	67.06	12,943.52
19.067	1.35	1036	(l) 1 x 3W LED Mirror Light	Each	67.06	69,479.20
19.068	1.35	630	(o) 13W LED Recessed Wall Light	Each	67.06	42,250.87
19.069	1.35	647	(e1) 9W Foot light	Each	67.06	43,390.97
			Subtotal of Electrical work			**6,73,84,453.00**
	20		**Elevators**			
	21		**Horticulture & landscapping Work**			
21.001	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	356.19	27,60,842.89
			Subtotal of Horticulture & landscapping Work			**27,60,843**
	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.	104.84	5,76,622.45
22.002	16.11	1284	Dry stone pitching 22.5 cm thick including supply of stones and preparing surface complete.	Sqm	545.29	7,00,151.03
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	565.41	7,25,984.42
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	1,856.34	29,10,745.27
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	303.08	5,06,752.46

Name of Work :- Development Of Permanent Campus Of Nu Rajgir.						
Subject :- Schedule-B (DSR Items)						
Sr.no	**DSR'14**	**Total Quantity**	**Description**	**Unit**	**Rate**	**Total Amount**
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.	1,243.28	24,65,423.20
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	1,570.87	44,32,982.62
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.	776.66	47,12,012.96
			Subtotal of Road work			**1,70,30,674**