

Name of Work:- Construction of STP, Pond development and CD work in KSU main campus at shilaj.

Bill of Quantities

ITEM No,	Item of Work	Quantity	Unit	Estimated Rates	Total Amount According to Estimated quantities
				In figure Rs.	
1	2	3	4	5	6
1	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff including shoring, strutting and dewatering of any kind of soil upto any lead and lift. (a) Loose or soft Soil	1259.00	Cumt.	117.08	147402.71
2	Excavation for foundation for depth from 1.5 m to 3.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff including shoring, strutting and dewatering of any kind of soil upto any lead and lift. (a) Hard Soil	777.00	Cumt.	162.38	126169.83
3	Excavation for foundation for depth from 3.0 m to 5.0 m including sorting out and stacking of useful materials and disposing off the excavated stuff including shoring, strutting and dewatering of any kind of soil upto any lead and lift. (a) Hard Soil	352.00	Cumt.	182.94	64395.34
4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm. in depth consolidating each deposited layer by ramming and watering upto optimum moisture content level.	1038.00	Cumt.	130.39	135345.86
5	Providing and laying cement concrete 1:4:8 (1-Cement : 4- coarse sand : 8- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	16.00	Cumt.	2680.21	42883.31
6	Providing and laying cement concrete 1:3:6 (1-Cement : 3- coarse sand : 6- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork in (A) Foundation and Plinth	334.00	Cumt.	3005.76	1003923.84
7	Providing and laying in position Ready Mixed M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, including the cost of centering shuttering finishing and reinforcement including cost of 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 the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 475 kg) (A) Foundations, footings, Base of columns and Mass concrete	49.00	Cumt.	5199.26	254763.63
8	Providing and laying in position Ready Mixed M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, including the cost of centering shuttering finishing and reinforcement including cost of 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 the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 475 kg) (B) Walls, from top of foundation level upto floor two level	113.00	Cumt.	6211.78	701931.46
9	Providing and laying in position Ready Mixed M-300 grade concrete for reinforced cement concrete work , using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of 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 the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (Cement level 475 kg) © Slabs, landing, shelves, Balconies Lintels, Beams, Girders and Cantilever upto floor two level.	35.00	Cumt.	7158.51	250547.72
10	Providing TMT Bar FE 550D reinforcement for R.C.C. work including bending, binding and placing in position complete upto floor two level	49085.00	KG	94.99	4662608.69
11	Masonry work using Aerated light weight concrete block having crushing strength not less than 35kg/sqcm for super structure above plinth level upto floor two level in cement mortar 1:5 (1 cement : 5fine sand) complete as per Technical Specification	57.00	Cumt.	4528.57	258128.34

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12	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in (i) Cement mortar 1:3(1-cement:3-sand)	210.00	Sqmt.	176.58	37081.44
13	Providing 20 mm thick double coat mala cement plaster on interior brick / concrete work for plastering comprising of base coat of 12 mm thick cement plaster in cement mortar (1 Cement : 4 coarse sand) in rough finishing and 8 mm thick top coat of cement mortar 1:2 (1 Cement : 2 Coarse sand) finished with trowel including scaffolding curing etc. complete.	170.00	Sqmt.	183.47	31189.31
14	Providing 20 mm thick water proof cement plaster using water proofing powder 1Kg/1bag of cement for all floors on brick / concrete wall work using water proofing materials in C M 1: 4 (1 cement 4 coarsse sand) including finishing with a floating coat of neat cement slurry etc complete for all floor. and shall be guaranteed for minimum period of 10 years after handing over the completed building by the main contractor to be finished as directed. Stamp paper guarantee 10 years to be furnished before receiving any payment from the client.	304.00	Smt	170.69	51889.76
15	Finishing wall with weather proof low velocity ultima exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete for all height	380.00	Sqmt.	114.53	43522.92
16	Structural steel work (Confirming to IS 4923-1997) riveted, bolted or welded in builtup for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the structural designs and directions of Engineer incharge.	1000.00	KG	127.95	127946.80
17	Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks having crushing strength not less than 35Kg. Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg.) (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete.(iii) Inside dimensions 600mm x mm and 450mm deep for pipe lines with three or more inlets. (upto 10 ton)	2.00	Each	7565.25	15130.51
18	STP on MBBR_Technology(75_KLD) PART -A, MEP WORK Planning, Designing, Detailing, Manufacturing, Supplying,Erection, Testing and Commissioning of Sewage Treatment Plant (STP) of 75 cu mt per day , including all electrical ,mechanical equipment, interconnected piping, valves,pumps,instruments. Design and construction of RCC tanks i.e. oil & grease chamber , collection tank, bio reactor tank , tube settler , chlorine contact tank and final treated water tank with manhole cover & all other civil structure of the pump room of the plant to complete the job. Connection of the underground sewage line to STP as well as connection of treated water of STP to nearest drain and Bypass connection of STP to the drain point with required civil,piping work & accesories all included in the scope of work. Suitable size of Shade to be provided to cover up the entire STP plant. Aeration should be provided in both Collection as well as Bio-Reactor Tank. All wetted parts should be in SS304. STP should be based on MBBR Technology including primary treatment secondary treatment and tertiary treatment of having Multi Grade Filter, Activated Carbon Filter with necessary chlorine contact system , Poly Electrolyte Dosing system complete to treat raw sewage from Domestic liquid waste with output characteristics as follows : Parameter pH : 7 to 7.5 B.O.D. (mg / Lit) : < 5 to 20 mg/Lit C.O.D. (mg / Lit) : < 10 to 30 mg/Lit Suspended Solids : < 25 mg/Lit Oil & Grease (mg / Lit) : < 5 mg/Lit. It also includes operation and maintenance cost of STP for 3 years form the actual date of completion without any extra cost	1.00	Each	1916475.00	1916475.00
19	Supplying and fixing reinforced concrete heavy duty non-pressure pipes with collars for culverts including setting and joining the pipes in C.M. 1:2 watering and laying (To level of slops of I.S. 458 / 1971 Class NP3 of following internal diameter. 1800 mm dia.	165.00	Rmt	10735.75	1771398.75

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				In figure Rs.	
1	2	3	4	5	6
20	Providing and laying in position Ready Mixed M-200 grade concrete for reinforced cement concrete work, using cement content as per approved Design Mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for a lead up to 10 kms having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer of laying, excluding the cost of centering shuttering finishing and reinforcement including cost of 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 the Engineer - in - charge. Without Fly Ash (Min cement level as per latest IS 456 shall be maintained) (B) Walls, from top of foundation level upto floor two level	778.00	cmt	4841.03	3766321.34
21	Providing formwork of sheathing steel foamwork so as to give a rough finish including centering shuttering strutting and propping etc. height of propping and centering below supporting floor to ceiling not exceeding 4 M. and removal of the same for in situ reinforced concrete and plain concrete work in. (C) Vertical surface such as walls (any thickness) partitions and the like including attached buttresses & string course & the like.	1812.00	Smt	342.70	620972.40
22	Providing & laying weep hole in Abutments, and returns by using A.C. pipe of 100mm including laying in proper grade and jointing the completed as per detailed specification.	20.00	no	89.20	1784.00
23	Providing and fixing M.S. grills of required pattern to wooden frames of windows etc. with M.S. flats at required spacings and frame all round, square or round bars with round headed bolts and nuts or by screws (A) Plain Grill.	900.00	KG	106.23	95607.00
24	Earthwork in cutting in all sorts of soil and soft murrum including conveying and spreading the stuff, embankment as and where directed within 200 meters from the end of the cutting with all required lead and lift.	1578.00	Cumt.	127.74	201573.72
25	Providing and fixing post and pipe railing as per detail drawing including 3(three) coats of painting to steel works complete.	255.00	Rmt	1202.80	306714.00
26	Providing & Filling farm clay or selected soil (Outside earth) in including watering with any lead & lift as directed by EIC etc. complete	372.00	Cumt.	407.03	151415.16
27	Providing pure doob (dharo) grass including watering and maintenance of the lawn for 1 year or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying necessary farm clay, sludge, manure, pesticides, extra earth, disposal of rubbish, trench excavation and all labour with lead and lift etc. complete as directed by EIC.	1860.00	Smt	209.07	388870.20
TOTAL AMOUNT					17175993.03

I/We am/are willing to carry out the work at.....% above/below percent (Should be written in figures and words) of the estimated rate mentioned above. Amount of my /our tender works out as under.

Estimated amount put to tender
Deduct.....% below
Net
In words

Estimated amount put to tender
Deduct.....% above
Net
In words

- The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.
- The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.
- GST and Income tax TDS will be deducted at a source while making payments of bills.
- PRC-10/2017 Cement Consumption/16/C Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.