

## Original Estimate

<b>N/W: Construction of ATM room at IIG, Panvel campus.</b> <b>भा.भू.सं. पनवेल परिसर में एटीएम कक्ष का निर्माण।</b>					
<b>निविदा संदर्भ/ Tender Ref. No. IIG/EM/Civil/2023/05</b>				<b>दिनांक/Dated: 28.04.2023</b>	
Sr. No.	Description of Items	Qty	Unit	Rate	Amount
1	EARTH WORK				
1.1	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, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1.1.1	All kinds of soil.	9	cum	218.60	1,967.00
1.2	Filling available excavated earth (excluding rock) in trenches, plinth. sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and for all lift	18	cum	161.60	2,909.00
1.3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	1	cum	2161.20	2,161.00
	Sub-Total				7,037.00
2	CEMENT CONCRETE (CAST IN SITU)				
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
2.1.1	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	3	cum	6833.40	20,500.00
2.1.2	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	0.5	cum	6326.05	3,163.00
2.1.3	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	1	cum	9047.30	9,047.00
2.2	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	20	per bag of cement of 50 kg	57.15	1,143.00
2.3	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with apiece of cloth lightly soaked in kerosene oil.	3	sqm	113.85	342.00
	Sub-Total				34,195.00
3	REINFORCED CEMENT CONCRETE				
3.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				

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3.1.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	1.2	cum	8364.20	10,037.00
3.1.2	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	1.25	cum	7945.65	9,932.00
3.2	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15* landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).	3.25	cum	10391.40	33,772.00
3.3	Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers, facias and eaves boards above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3. (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20mm nominal size derived from natural sources).	1	cum	10356.80	10,357.00
3.4	Centering and shuttering including strutting, propping etc. and removal of form for				
3.4.1	Foundations, footings, bases of columns, etc. for mass concrete.	2	sqm	332.10	664.00
3.4.2	Suspended floors, roofs, landings, balconies and access platform	20	sqm	766.55	15,331.00
3.4.3	Lintels, beams, plinth beams, girders, bressumers and cantilevers	24	sqm	608.35	14,600.00
3.4.4	Vertical and horizontal fins individually or forming box louvers band, facias and eaves boards	16	sqm	1100.40	17,606.00
3.5	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
3.5.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	300	kg	89.65	26,895.00
3.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
3.6.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	535	kg	89.65	47,963.00
	Sub-Total				1,87,157.00
4	MASONRY WORK				
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 in foundation and plinth in:				
4.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	8	cum	6882.00	55,056.00

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4.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 3.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
4.2.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	12	cum	8288.35	99,460.00
	Sub-Total				1,54,516.00
5	STONE WORK				
5.1	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) upto plinth level with :				
5.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.5	cum	6653.45	9,980.00
	Sub-Total				9,980.00
6	CLADDING WORK				
6.1	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 of edges to give high gloss finish etc. complete at all levels.				
6.1.1	Granite stone slab of colour black, Cherry/Ruby red				
6.1.1.1	Area of slab over 0.50 sqm	7	sqm	4425.35	30,977.00
	Sub-Total				30,977.00
7	STEEL WORK				
7.1	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.				
7.1.1	80x1.25 mm M.S. laths with 1.25 mm thick top cover	10	sqm	3008.80	30,088.00
7.2	Providing and fixing ball bearing for rolling shutters.	2	each	424.20	848.00
7.3	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.				
7.3.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	240	kg	142.30	34,152.00

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7.4	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 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge.				
7.4.1	10 x 120 mm	8	each	144.60	1,157.00
	Sub-Total				66,245.00
8	ROOFING				
8.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.				
8.1.1	110 mm diameter	6	metre	319.75	1,919.00
8.2	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				
8.2.1	Bend 87.5°				
8.2.1.1	110 mm bend	1	each	132.00	132.00
8.2.2	Shoe (Plain)				
8.2.2.1	110 mm Shoe	1	each	115.95	116.00
	Sub-Total				2,167.00
9	FINISHING				
9.1	Finishing walls with textured exterior paint of required shade :				
9.1.1	New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	95	sqm	245.00	23,275.00
9.2	Applying priming coat:				
9.2.1	With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	25	sqm	29.75	744.00
9.3	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
9.3.1	Two or more coats on new work	25	sqm	131.45	3,286.00
9.4	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.	60	sqm	123.85	7,431.00
	Sub-Total				34,736.00
10	Dismantling and Demolishing				
10.1	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
10.1.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	1	cum	2007.10	2,007.00

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10.2	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
10.2.1	In cement mortar	2.5	cum	2027.10	5,068.00
	Sub-Total				7,075.00
11	WATER PROOFING				
11.1	Grading roof for water proofing treatment with				
11.1.1	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	1	cum	7510.75	7,511.00
11.2	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	30	sqm	474.15	14,225.00
	Sub-Total				21,736.00
12	NON SCHEDULE				
12.1	Transportation of soling stone by mechanical transport to the designated site including loading, unloading, stacking at the site of unloading etc. complete as per the direction of Engineer-in-Charge.( Lead upto 1.0 km ).	2	cum	213.45	427.00
12.2	Providing and plastering with premixed readymade cement mortar of approved brand / make, manufactured in automated dry mix batching plant where Cement, sand and polymer additive are mixed in pre-determined ratio (as per manufacturer specification). In one coat. 6 to 7 liter potable water (as per manufacturer specification) shall be added to 40 kg of readymix dry mortar on mortar mixing G.I tray and shall be mixed well for 4-5 minutes. The mortar shall be left undisturbed for 3-5 minutes to dissolve additive and shall be mixed once again to form cohesive and consistent mix.				
12.2.1	6 mm average thickness	30	sqm	375.15	11,255.00
12.2.2	15 mm average thickness	70	sqm	642.15	44,951.00

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12.3	Providing and plastering with premixed readymade cement mortar of approved brand / make, manufactured in automated dry mix batching plant where Cement, sand and polymer additive are mixed in pre-determined ratio (as per manufacturer specification). 18 mm average thickness in two coats under layer 12 mm thick cement plaster and top layer 6 mm thick cement plaster finished rough with spong 6 to 7 liter potable water (as per manufacturer specification) shall be added to 40 kg of readymix dry mortar on mortar mixing G.I tray and shall be mixed well for 4-5 minutes. The mortar shall be left undisturbed for 3-5 minutes to dissolve additive and shall be mixed once again to form cohesive and consistent mix.	100	sqm	782.15	78,215.00
12.4	Transportation of earth by mechanical transport to the designated site including loading, unloading, stacking at the site of unloading etc. complete as per the direction of Engineer-in-Charge.( Lead upto 1.0 km ).	18	cum	97.05	1,747.00
12.5	Providing and fixing G.I "U" bolt clamps of 6 mm dia. of approved design for fixing SCI/SCI (spun) /GI/ CPVC/UPVC/PVC pipe of different dia to G.I bracket with nut and washer as directed by Engineer in Charge. (Cost of G.I brackets shall be paid separately in relevant item)				
12.5.1	For 100/110 mm dia pipe	4	each	28.65	115.00
12.6	Providing and fixing G.I bracket of approved design to support GI/SCI/SCI(SPUN)/PVC/CPVC/UPVC pipes comprising G.I bracket of minimum cross section 32 X 2.5 mm and specified length, projecting 60 mm from the wall surface and fixed on wall with 2 nos plumber nails of size 75 mm. The pipes shall be fixed to the already fixed bracket with help of GI 'U' bolt as directed by Engineer-in –charge. (Cost of 'U' clamp shall be paid separately in relevant item.)				
12.6.1	Bracket length 150 mm.	4	each	50.70	203.00
12.7	Removing root of a dead tree without trunk (trunk is already removed) from ground by excavating with JCB and cutting the extracted root into smaller size by chainsaw/axe including disposal of cut root by tempo outside the campus of IIG etc. complete as per direction of authority of IIG.	1	Job	11304.85	11,305.00
	Sub-Total				1,48,218.00

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Sr. No.	Description of Items	Qty	Unit	Rate	Amount
	Total				7,04,039.00
	Add for revised GST @18% in place of 12% ie 6.33% on 704039				44,565.67
	Total				7,48,604.67
	Add Cost Index @16% on SR&DR Total 591,004.47				94,560.72
	Total				8,43,165.39
	Say				<b>8,43,165.00</b>

**(Rupees Eight Lakh Forty Three Thousand One Hundred Sixty Five Only)**

Add \_\_\_\_\_% above / \_\_\_\_\_% Below the estimated cost.

Tendered cost (Including GST ) :

Name ,sign and seal of the agency

Date