

SCHEDULE OF QUANTITY

Name of Work: - A/R & M/O for Zoological Survey of India Laboratory cum Office Building and Annex Building at ZSI, New Alipore, Kolkata, during 2026-27.

SH: - Day to day maintenance of external services.

Sl. No	Description	Quantity	Unit	Rate	Amount	DSR-23 & M/R
1	EARTH WORK					2
1.1	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	300.00	sqm	17.60	₹ 5,280.00	2.31
	Sub-Total				₹ 5,280.00	
2	CEMENT CONCRETE (CAST IN SITU)					4
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 :					4.1
2.1.1	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)	2.00	cum	7878.50	₹ 15,757.00	4.1.3
2.1.2	1:5:10 (1 cement: 5 fine sand derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	2.00	cum	6189.65	₹ 12,379.00	4.1.11
	Sub-Total				₹ 28,136.00	
3	MASONRY WORK					6
3.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					6.1
3.1.1	Cement mortar 1:6(1 cement :6 coarse sand)	3.00	cum	7132.25	₹ 21,397.00	6.1.2
	Sub-Total				₹ 21,397.00	
4	STEEL WORK					10
4.1	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	250.00	kg	133.70	₹ 33,425.00	10.2
	Sub-Total				₹ 33,425.00	
5	ROOFING					12
5.1	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.					12.41
5.1.1	110 mm diameter	30.00	metre	377.40	₹ 11,322.00	12.41.2
5.2	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.					12.42
5.2.1	Coupler					12.42.1
5.2.1.1	110 mm	5.00	each	136.15	₹ 681.00	12.42.1.2
5.2.2	Bend 87.5°					12.42.5

Sl. No	Description	Quantity	Unit	Rate	Amount	DSR-23 & M/R
5.2.2.1	110 mm bend	5.00	each	150.35	₹ 752.00	12.42.5.2
5.2.3	Shoe (Plain)					12.42.6
5.2.3.1	110 mm Shoe	5.00	each	131.85	₹ 659.00	12.42.6.2
5.3	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.					12.43
5.3.1	110 mm	10.00	each	371.30	₹ 3,713.00	12.43.2
5.4	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	30.00	sqm	738.65	₹ 22,160.00	12.50
	Sub-Total				₹ 39,287.00	
6	FINISHING					13
6.1	12 mm cement plaster of mix:					13.1
6.1.1	1:4(1 cement: 4 fine sand)	25.00	sqm	347.05	₹ 8,676.00	13.1.1
6.2	15 mm cement plaster on the rough side of single or half brick wall of mix:					13.2
6.2.1	1:4(1 cement: 4 fine sand)	10.00	sqm	399.45	₹ 3,995.00	13.2.1
6.3	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:					13.99
6.3.1	One or more coats on old work	300.00	sqm	102.80	₹ 30,840.00	13.99.1
6.4	Finishing walls with Acrylic Smooth exterior paint of required shade:					13.111
6.4.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	1200.00	sqm	120.75	₹ 1,44,900.00	13.111.1
	Sub-Total				₹ 1,88,411.00	

Sl. No	Description	Quantity	Unit	Rate	Amount	DSR-23 & M/R
7	REPAIRS TO BUILDING					14
7.1	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer- in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	35000.00	litre	0.50	₹ 17,500.00	14.75A
7.2	Cleaning and desilting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	50.00	each	108.30	₹ 5,415.00	14.76
7.3	Cleaning of under ground sump, Over Head R.C.C. Tank (independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations: (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	650.00	sqm	84.85	₹ 55,153.00	14.78
7.4	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 upto -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 :					14.91
7.4.1	3 mm thick	195.00	sqm	560.95	₹ 1,09,385.00	14.91.1
	Sub-Total				₹ 1,87,453.00	
8	Dismantling and Demolishing					15
8.1	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	35.00	sqm	54.65	₹ 1,913.00	15.56
8.2	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	150.00	cum	263.95	₹ 39,593.00	15.60

Sl. No	Description	Quantity	Unit	Rate	Amount	DSR-23 & M/R
	Sub-Total				₹ 41,506.00	
9	ROAD WORK					16
9.1	Providing and laying 60 mm 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 50 mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	390.00	sqm	972.00	₹ 3,79,080.00	16.68
	Sub-Total				₹ 3,79,080.00	
10	WATER SUPPLY					18
10.1	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work					18.12
10.1.1	50 mm dia nominal bore	20.00	metre	762.15	₹ 15,243.00	18.12.6
10.1.2	80 mm dia nominal bore	6.00	metre	1041.70	₹ 6,250.00	18.12.8
10.2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :					18.17
10.2.1	50 mm nominal bore	2.00	each	1026.65	₹ 2,053.00	18.17.4
10.2.2	80 mm nominal bore	2.00	each	2604.55	₹ 5,209.00	18.17.6
10.3	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :					18.4
10.3.1	50 mm diameter pipe	20.00	metre	30.50	₹ 610.00	18.40.6
10.3.2	80 mm diameter pipe	6.00	metre	44.00	₹ 264.00	18.40.8
10.4	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :					18.46
10.4.1	80 mm nominal bore	3.00	each	1207.95	₹ 3,624.00	18.46.8
10.5	Cutting holes up to 30x30 cm in walls including making good the same:					18.76
10.5.1	With common burnt clay F.P.S. (non modular) bricks	4.00	each	416.80	₹ 1,667.00	18.76.1
	Sub-Total				₹ 34,920.00	
11	DRAINAGE					19
11.1	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design :					19.28
11.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5.00	each	6889.80	₹ 34,449.00	19.28.1
	Sub-Total				₹ 34,449.00	
	Total				₹ 9,93,344.00	
	Modified Estimated Cost after using correction factor on DSR 2023 on account of GST @ 0.973 on			₹ 9,93,344.00	₹ 9,66,524.00	
	Add Cost Index @23% on			₹ 9,66,524.00	₹ 2,22,301.00	
	Total				₹ 11,88,825.00	

Sl. No	Description	Quantity	Unit	Rate	Amount	DSR-23 & M/R
12	NON-SCHEDULE ITEMS					
12.1	Cleaning silt of inspection pit.	80.00	each	183.55	₹ 14,684.00	PCS-17,Vol-II,It.No.-2,P-96
12.2	Removing chokage of H.C.I. or S.W. pipe with split bamboo.					PCS-17,Vol-II,P-77
12.2.1	(a) Underground	500.00	metre	13.10	₹ 6,550.00	It.No.-12a
12.2.2	(b) Over ground	450.00	metre	10.75	₹ 4,838.00	It.No.-12b
12.3	Cleaning silt of master trap pit.	40.00	each	1372.95	₹ 54,918.00	PCS-17,Vol-II,It.No.-5,P-96
12.4	Taking out old damaged tarfelt from the roof, parapet etc. preparing the roof surface sby removing all spoils, blisters, moss etc. from the working site and disposal of the same beyond the compound and cleaning the site in all respect as per direction of Engineer-in-Charge.					PCS-17,Vol-I,It.No.-C1,P-92 & 93
12.4.1	All floor	195.00	sqm	14.30	₹ 2,789.00	
12.5	Providing & fixing Stainless Steel 304 grade Powder coated letter per inches including all fittings & fixing nuts, washer etc. all complete as per direction of Engineer-in-charge. (Measurement as per maximum size in inch which should be greater).	2580.00	cm	58.90	₹ 1,51,962.00	Market Rate
	Total				₹ 14,24,566.00	

Executive Engineer
KCD-IV,CPWD,Kol-20