

INDIAN INSTITUTE OF INTEGRATIVE MEDICINE (IIM), JAMMU
(COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH)

**NAME OF WORK: Proposal for water proofing and partition wall for killo lab. at (IIM),
Jammu**

SCHEDULE OF QUANTITIES

S.N.	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
1.	Disposal/ Carriage of materials by mechanical transport including loading, unloading and stacking of building rubbish materials upto 5 KM	6.00	Cum		
2.	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.	1.62	Cum		
3.	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 upto 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.	5.45	Cum		
4.	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 cement : 5 coarse sand : 10 graded 9Zone-III) stone aggregate 40 mm nominal size)	1.33	Cum		
5.	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	2.40	Cum		

6.	Centering and shuttering including strutting, propping etc. and removal of form for : Columns, Pillars, Piers, Abutments, Posts and Struts, beam	24.82	Sqm		
7.	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.	360.23	Kg		
8.	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	1.69	Cum		
9.	Brick work 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 all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	9.48	Cum		
10.	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. : Cement mortar 1:4 (1 cement :4 coarse sand)	16.20	Sqm		
11.	Steel work welded in built up sections/ framed work, welded mesh, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	360.00	Kg		
12.	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. 40 mm thick with 20 mm nominal size				

	stone aggregate	8.70	Sqm		
13.	Providing and laying Ceramic glazed floor 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), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	12.00	Sqm		
14.	12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)	119.40	Sqm		
15.	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 thinnable priming coat with cement primer.	135.60	Sqm		
16.	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work	36.54	Sqm		
17.	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.	135.60	Sqm		
18.	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead : With cement mortar 1:4 (1cement: 4 coarse sand)	57.36	Sqm		

19.	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : Old work (Two or more coats)	146.16	Sqm		
20.	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion, Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	65.99	Kg		
21.	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	47.04	Kg		
22.	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors,				

	windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides	8.72	Sqm		
23.	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With single glass panes of 5.50 mm thickness	7.35	Sqm		
24.	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 upto 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	3.00	Nos.		
25.	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	2.00	Nos.		
26.	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 200x10 mm	3.00	Nos.		

27.	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	16.00	Nos.		
28.	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured 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 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. 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 : 3 mm thick	329.28	Sqm		

Note:

Rates shall be quoted in figures and words both for each item. Calculation of the amount of each item and total cost shall be written by the contractor in BOQ of the tender document clearly, failing which tender may be rejected.

Signature of Contractor

LIST OF APPROVED MAKES (CIVIL WORKS)

S.No	Materials	Approved Make / Manufactures
1	Adhesive solvent cement	Pedilite, Sikka, Fosroc, CICO,
2	Aluminum Building Hardware	IPSA, Everite, EBCO, ECIE, Hardwin Traders
3	Angle Iron	TATA, SAIL, RINL
4	Anodised Aluminium section	Jindal, Hindalco, Indalco
5	C. P fitting	Parko, EES EES, Mark
6	C.I Cover & Manhole Cover	Bajaj, MES , RIF & NICO
7	Cast Iron Pipes & Fittings Manhole Covers and Frames As per IS: 1729 (Manhole covers and frames)	Bajaj, MES, NECO, BIC Calcutta, Kajeco,
8	Cement (OPC)	ACC, Ambuja, Birla, L&T, J.P.Rewa,
9	Cement Primer	Asian, Nerolac, Dulux
10	Ceramic Tiles/ Vitrified Tiles	Kajaria, Nitco, Orient, Somany, H & R Jonhson
11	CP Brass fittings & Accessories	Ess-ess, Mark, Parko
12	Door lock	Godrej, Harrison, link
13	Epoxy Paint	Asian, Nerolac, Dulux
14	G. I Fitting	UNIK, DRP-M, KENT, ZOLOTO-M
15	G. I Sheet	TATA, RINL, Jindal, SAIL
16	G. I. Chain Link or barbed wire fencing	TATA, SAIL, Kamdhenu
17	G. I. Pipe	Jindal, Prakash surya, TATA
18	Gate/ wheel valve	Leader, DRP, ZOLOTO
19	Glass, Mirror (Float/ Sheet)	Modiguard, Saint Gobian, TATA Continantal
20	GM/ Forged Brass Ball Valves	Zoloto, DRP, Sant / Leader
21	Gun metal valves	Leader
22	Hydraulic door closer	Everest, Godrej
23	M. S. pipe	TATA, SAIL, RINL
24	Mild steel Bar / TMT bar	SAIL, TATA, RINL, Rathi, Kamdhenu
25	Oil bound distemper paint	Asian, Nerolac, Dulux
26	Orissa Pan, W.C, Vitreous china sink and wash basin, Urinal etc.	Hindware, Orient, Cera, Paryware
27	Paver Tiles	Endura, Marbonite
28	Plastic Emulsion Paint	Asian, Nerolac, Dulex
29	Polymer Sealent for expansion Joint	SIKA, CICO, Pidilite, G.E. Silicon.
30	Pre-Coated iron Galvanized profile sheet and accessories	Lioydeck, Trackdeck, Multiclad, TATA Bluescope
31	Pre-laminated particle board	Kitlam, Durolam, Anchor, Durian, Novappan
32	PTMT fitting	Prayag, Praksh Surya
33	PVC flushing cistern	Hindware, Cera, Parryware
34	PVC plastic seat (W.C)	Commonder, Hindustan Sanitary ware, Hindware
35	Rain Water & PVC Pipes & Fitting	Prince, Supreme, Finolex, SFMC
36	RCC Pipe	Ashok Cement Pipe, Indian Hume Pipe, KK
37	Sealant and Additives	Asian Paints, Fosroc, Pidilite
38	Stainless Steel Sink	Nilkanth, Nirali, Jayna, Crysil
39	Synthetic enamel paint/ primer	Asian, Nerolac, Dulux
40	Textured exterior paint	Asian, Nerolac, Dulux

41	Varnish	Asian, Nerolac, Dulux
42	Wall Putty	JK Wall Putty, Birla Putty
43	Water Proofing Compound	FOSROC, SIKA, CICO
44	Water proofing paint/ Snowcem	Snowcem-plus, Nerolac
45	White Cement	ACC, Birla, JK Birla, Ultra-Tech
46	18mm/12mm/6mm /4mm Ply Board	Confore, Garnix, Century, Douro
47	Fevicol	Pidilite, SH
48	Mica	Mirrino, Greenlam, Kitlam
49	Fly Proof Galvanised Wiremesh	Power
50	Water Storage Tank	Sintex

Note :-

- 1.0 Choice of selection materials to be used in work out of the approved list shall remain with Engineer of the work.
- 2.0 The work shall be carried out strictly according to lasted CPWD Specification and in confirmation to I. E. rules.

Signature of Contractor