

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-01

SHORT URGENT TENDER NOTICE NO. Engg./ 17(Civil) /2018-19

Sl. No.	Name of the Work :-	Repair, Renovation And Painting Work Of Bathrooms for new RIO & Emergency Ward (South & North Wing) and Al. Partition Work of Oncology Day-care and P.B.C.R at 1st. floor of OPD building M.S grill gate Electrical Panel of Trauma Centre, in front Ent. , Emergency O.T Toilet At Ground Floor , Construction of Toilet near Skill Lab and Drinking Water facilities in front AL.Bank ATM At IGIMS, PATNA-14		
1	Estimated Cost (In Rs.) :-	Rs. 12,06,400/-		
2	Earnest Money (In Rs.) :-	Rs. 24,200/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 25,00/-		
4	Time of completion :- (In Days)	30 Days		
5	Date, time & place for submission of Complete tender-	As Per NIT		
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT		
Sl. No.	Item Description	Unit	Qty.	Rate
1	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead:			
a	In cement mortar	cum	1.44	685.10
2	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 meters lead. Of area 3 sqm and below each 35.00	Each	26.00	64.70
3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead.	cum	7.03	839.00
4	Half brick masonry with bricks of class designation 100A in foundations and plinth in : cement mortar 1:4 (1 cement: 4 coarse sand)	sqm	36.00	596.80
5	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
a	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	10.76	4,033.00
6	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			

a	Thermo-Mechanically Treated bars TMTC-500-8mm dia	kg	39.00	77.40
b	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	39.00	76.70
7	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	11.00	335.30
8	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	60.00	139.90
9	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 Sqm and under including cutting the patch in proper ing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			
a	With cement mortar 1:4	Sqm	110.00	213.30
10	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.	110.00	82.80
11	Removing dry or oil bound distemper by scrapping, sand paper andpreparing the surface smooth including necessary repari scratchestec. Gmplete	sqm	599.10	8.10
12	Distempering with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	599.10	27.20
13	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	599.10	31.70
14	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on old work	Sqm.	160.20	45.20
15	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) 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	28.80	739.80
16	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS :15622 of approved make in colours such as white , Ivory , Grey , FumeRed , Brown, laid on 20 mm thick Cement motar 1:4 (1 cement: 4coarse sand) including pointing the joints with white cement andmatching pigment etc., complete.	sqm	175.05	671.00
17	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap. 10 liters low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fistures complete including cutting and making good they walls and floors wherever required.			

a	White Vitreous china orissa pattern W.C. pan of size 580x440mm with integral typepe foot rests.	Each	16.00	3,390.90
18	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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 :			
a	W.C. pan with ISI marked white solid plastic seat and lid	Each	6.00	3,310.00
19	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mmsizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required			
a	One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Each	6.00	3,340.60
20	Providing and fixing wash basin with C.I. brakets, 15mm C.P. brass taps 32mm, C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the wall and floor wherever required.			
a	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	6.00	2,018.10
21	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes,having thermal stability for hot & cold water supply, includingall CPVC plain & brass threaded fittings, including fixing the pipe withclamps at 1.00 m spacing. This includes jointing of pipes & fittingswith one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
a	20 mm nominal bore	metre	174.54	255.70
b	32 mm nominal bore	metre	101.00	393.00
22	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	32mm nominal bore each	each	7.00	540.00
23	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.			
a	15 mm nominal bore with 45 cm length	each	6.00	74.90
24	Providing and fixing G.I. Union in existing G.I. pipe line, cutting andthreadingthe pipe and making long screws, including excavation,refilling the earth or cutting of wall and making good thesame complete wherever required :			
a	20 mm dia nominal bore.	each	25.00	332.40
b	32 mm dia nominal bore.	each	18.00	365.70
25	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931	each	45.00	401.40
26	Providing and fixing C.P. brass stop cock (conceaed) of standard design and of approved make conforming to IS:8931.15 mm nominal bore	each	60.00	588.20
27	Providing and fixing PTMT grating of approved quality and colour			

a	100 mm nominal diar	each	12.00	36.20
28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete 40 mm dia each 78.50	each	16.00	86.20
29	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	each	6.00	122.10
30	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	each	6.00	216.90
31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	each	6.00	741.90
32	Providing and fixing on wall face unplasticised-PVC (working pressure 4 kgf per sqm) rain water pipes conforming to IS : 4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	75 mm dia	rmt	25.00	147.40
b	110 mm dia	rmt	180.00	238.30
33	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	Single tee with door			
ii	110x110x110mm	each	10.00	183.80
b	Single tee without door			
ii	110x110x110mm	each	10.00	183.10
c	Band 87.50			
i	75x75x75mm	each	4.00	85.10
ii	110x110x110mm	each	10.00	124.70
34	Providing and fixing flush door shutter of century board or greenply or kitply have non decorative type core of block board 32 mm thick including anodised aluminium butt highest with necessary screws aluminium handle, l-drope, twoer bold etc as per specification of E/S.	Sqm.	28.35	2,750.92
35	Providing sal wood work in frame of doors (choukhats) and fixed in position.	Cum	0.08	87,862.50
36	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: 100 mm each 54.60	each	16.00	47.50
37	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: 300x10mm	each	16.00	105.20

38	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 / aneling, 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)	kg.	295.00	369.20
39.00	Providing and fixing 4mm thick ACP of approved brand and manufacture in panelling fixed in aluminium doors, window shutters and partition frames, with C.P.brass/stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge	sqm	79.20	1,198.89
40	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats, square or round bars etc. All complete.	kg	1,441.93	114.20
41.00	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. Complete 10.16.1 Hot finished welded type tubes	Kg.	409.00	88.60
42.00	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness 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.	Sqm.	9.00	575.80
43	Providing and fixing machine moulded aluminium covering of approved pattern & design, made out of machine cut aluminium sheet and machine holed for receiving dash fastener, over expansion joints on vertical surfaces/ceiling floors, the fixing on plate in one row on one side of joint only shall be done with stainless steel dash fasteners of 8 mm dia and 75 mm long bolt including providing aluminium washers 2 mm thick & 15 mm dia, at a staggered pitch of 200mm centre to centre including drilling holes in the receiving surface and providing expandable plastic sleeves in holes etc. complete as per			

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-02

SHORT URGENT TENDER NOTICE NO. Engg./ 17(Civil) /2018-19

Sl. No.	Name of the Work :-	Renovation of 2nos toilet duct and 1 nos bathroom (R.N-212) and pvc flush door with frame of ward block and Drainage work (Remaining) of Biochemistry and Renovation Bathroom of Gynae Dpt. and 1nos. bathroom and Aluminum partition work of liver transplant and Sanitary and damage work Remaining of Old Boys Hostel AT I.G.I.M.S, PATNA -14		
1	Estimated Cost (In Rs.) :-	Rs. 10,64,960/-		
2	Earnest Money (In Rs.) :-	Rs. 21,300/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2,500/-		
4	Time of completion :- (In Days)	30 Days		
5	Date, time & place for submission of Complete tender-	As Per NIT		
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT		
Sl. No.	Item Description	Unit	Qty.	Rate
	CIVIL SCHEDULE			
1	Demolishing cement concrete including disposal of material within 50 metre lead:			
a	1:3:6 or richer mix. (Over hade water tank)	cum	15.75	807.20
2	Dismantling tile work floor and roofs laid in cement mortar including stacking material within 50 metres lead.	Sqm	67.05	25.50
3	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead.			
a	100 mm diameter C.I. pipe	mtr.	116.36	56.10
b	150 mm diameter C.I. pipe	mtr.	54.75	26.90
4	Dismantling of flushing cistern of any size including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	each	38.00	329.50
5	Dismantling G.I . pipes including excavation and refilling trenches after taking out the pipes , breaking lead caulked joints, melting of lead and making into blocks including stacking of pipes , lead at site within 50 metres lead.			
a	Upto 150 mm diameter	mtr.	366.52	139.40
6	Removing dry or oil bound distemper by scrapping, sand paper and	Sqm		8.10

	preparing the surface smooth including necessary repair scratches etc. Complete		62.41	
7	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 Sqm and under including cutting the patch in proper ing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			
a	With cement mortar 1:4	Sqm	81.10	213.30
8	Distempering with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	62.41	27.20
9	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	62.41	31.70
10	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.	10.00	82.80
11	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.			
a)	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	6.31	4,033.00
12	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-Charge.			
a	For door/ window/ clerestory window	sqm	63.00	447.40
13	Cutting holes up to 30x30 cm in walls including making good the same:With common burnt clay F.P.S. (non modular) bricks	each	159.00	184.70
14	Providing and fixing on wall face unplasticised-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	110 mm diameter	rmt	223.35	238.30
15	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	Coupler			
	110mm	each	85.00	113.50
b	Single tee with door			
	110 x110 x110 mm dia PVC	each	117.00	183.10
c	Single tee without door			
	110 x110 x110 mm dia PVC	each	37.00	183.10
d	Band 87.5			
	110 mm dia PVC	each	39.00	124.70
e	Shoe plain			
	110m Shoe	each	10.00	108.52
16	Providing and fixing unplasticised -PVC pipe clip of approved design tounplasticised PVC rain water pipe by means of 50x50x50mm hard			

	wood plugs,screwed with M.S. screws of required length including cutting brick work and fixing on cement mortar(1:4) 1 cement: 4corsa sand and making good the wall etc complete			
a	110 mm	each	129.00	157.37
17	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, 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 pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the.			
a	20 mm nominal outer dia Pipes	metre	38.32	255.70
b	25 mm nominal outer dia Pipes	metre	81.07	308.00
18	Providing and fixing PTMT grating of approved quality and colour			
a	125 mm nominal dia with 25 mm waste hole	each	15.00	49.90
19	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws,including excavation,refilling the earth or cutting of wall and making good the same complete wherever required :			
a	20 mm nominal bore	each	25.00	332.40
b	25 mm nominal bore	each	22.00	369.80
c	32 mm nominal bore	each	2.00	365.70
20	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25 mm nominal bore	each	8.00	461.80
b	32 mm nominal bore	each	2.00	540.00
21	Female threaded Connector/Adapter for 42.70 mm outer dia X 32mm nominal threaded	each	4.00	536.10
22	Male threaded Connector/Adapter for 28.58 mm outer dia X 20mm nominal threaded	each	20.00	291.32
23	Valve Connector for 34.00 mm outer dia X 32 mm nominal dia nominal dia threaded	each	4.00	585.43
24	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :			
a	25 to 40 mm nominal bore	each	3.00	338.40
25	Providing and fixing factory made P.V.C. door frame of size 50x47 mmwith a wall thickness of 5 mm,made out of extruded 5 mm rigid PVCfoam sheet, mitred at corners and joined with 2 Nos. of 150 mm longbrackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge,EPDM rubber gasket weather seal to be provided through out theframe. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge	m	337.17	462.00
26	25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25 mm or less as per requirement with an	sqm.	85.13	2,263.20

	average wall thickness of 1 mm (\pm 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. An M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (\pm 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places			
27	Providing and fixing 4mm thick ACP of approved brand and manufacture in panelling fixed in aluminium doors, window shutters and partition frames, with C.P.brass/stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge	sqm	16.99	1,198.89
28	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 :			
a	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets :			
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	12.00	4,902.40
29	providing and fixing vertical blind complete.	sqft	66.75	235.00
30	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:			
a	300x10 mm	each	135.00	105.20
31	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:			
a	125 mm	each	156.00	54.00
32	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) 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 Motar 1:3(1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	26.60	739.80

33	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap. 10 liters low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fixtures complete including cutting and making good they walls and floors wherever required.			
a	White Vitreous china orissa pattern W.C. pan of size 580x440mm with integral typepe foot rests.	Each	1.00	3,390.90
34	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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 :			
a	W.C. pan with ISI marked white solid plastic seat and lid	Each	3.00	3,310.00
35	Providing and fixing wash basin with C.I. brakets, 15mm C.P. brass taps 32mm, C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the wall and floor wherever required.			
a	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	11.00	2,018.10
36	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm,including painting of fittings and brackets, cutting and making good the walls wherever required :			
a	Kitchen sink without drain board,610x510 mm bowl depth 200 mm	Each	2.00	2,547.50
37	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.15 mm nominal bore	each	34.00	588.20
38	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931	each	5.00	401.40
39	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.			
a	15 mm nominal bore with 45 cm length	each	37.00	74.90
40	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	each	3.00	216.90
41	Providing and fixing PTMT soap Dish Holder having length of 138mm,breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	each	4.00	122.10
42	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.			
a	450 mm long towel rail with total length of 495 mm,78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	1.00	367.50
43	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.			
a	Flexible pipe,32 mm dia	Each	29.00	83.70
44	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	Each	1.00	109.70
45	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standardtubular sections/	kg.	54.60	369.20

	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 / aneling, 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)			
46	Providing and fixing aluminium sliding door 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 nuts and screws etc. mm 300x16	Each	5.00	220.40
47	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc complete:.	Each	2.00	40.40
48	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete charge. Triple strip vertical	Each	22.00	31.20
49	Providing and fixing bright finished 100 mm mortice lock with 6 levers without pair of handles of approved quality for aluminium door, with necessary screws etc complete as per direction of Engineerin-in-Charge.	Each	7.00	482.70
50	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality complete.	Each	4.00	50.60
51	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :			
a	For pipes 100 to 250mm diameter	Each	10.00	326.60
52	Extra cost for carriage of Material			
a	Sone Sand (45 km from Koelwar)	Cum	12.39	878.40
b	Stone Chips (lead 156 Km P)	cum	10.68	2,564.53
c	Difference of Cost of Cement	tonn	5.01	636.50
	NON-SCHEDULE ITEM			
53	Providing and fixing hand Shower (Health Faucet) with 8mm Dia 1 meter Long Flexible Tube & Wall Hook all complete. Jaguar Model ALD-CHR-573 or equivalent.	Each	3.00	

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-03

SHORT URGENT TENDER NOTICE NO. Engg./ 17(Civil) /2018-19

Sl. No.	Name of the Work :-	Supplying and Installation of Submersible Sewerage Pump set with drainage pipe line for lifting waste water of Old Boys Hostel at IGIMS, Patna-14
1	Estimated Cost (In Rs.) :-	Rs. 9,81,068/-
2	Earnest Money (In Rs.) :-	Rs. 19,650/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1,250/-
4	Time of completion :- (In Days)	15 Days
5	Date, time & place for submission of Complete tender-	As Per NIT
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT

Sl. No.	Item Description	Unit	Qty.	Rate IN figure/word
	Civil Non- Schedule Item			
1	Supplying and Fixing S.F.F. Of KSB make Submersible Sewage and effluent Handling Water Pump Model KRTU PK 100 - 180/24 Impeller dia : 180 mm Speed 1450 RPM , Motors Rating : 2.5 KW/ 3.4 HP , Rated Current : 5.6 Amp , Free Passage : 46 mm , Head 3.4 Mtrs. Discharge 100 M3/Hr. , Out let Size 100 mm , Supply Voltage 400 (+/- 10%) , Cable Size 1x7x1.5 sq. mm all complete	each	1.00
2	Supplying and Fixing Control Panel Consisting DOL Starter, Volt Meter , Amp . Meter , Single Phase Preventer , Over Load Relay , Moisture Sensor Controller, Temp , Sensor controller , Indicating Lamp , On/on Switch , Water Level, Guard (Floats Switch) all complete.	each	1.00
3	Supplying and Fixing S.F.F. Of 150 mm dia M.S. "H" Column Pipe with both end Flanged with nut , bolt , Washer and Gasket , Bend including trench cutting, Hole cutting all complete job.	mtr.	32.00
a	Extra cable size 1 x 3x 2.5 sqmm including all complete.	Meter	228.00
4	Supply, Installation and Testing of following items including all taxes.			
a	150 mm dia CM gr ISI Pipe	mtr.	130.00
	Civil Schedule Item			
5	Clearing jungle including uprooting of rank vegetation ,grass, brush wood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	SQM	360.00	5.79
6	Earth work in excavation over areas (exceeding 30 cm in depth. 1.5 m in width as well es 10 sqm on plan) including disposal of excavated	cum	800.00	279.10

	earth , lead upto 50 m and lift upto 1.5 m; disposed earth to be levelled and neatly dressed.AH Kinds of soil			
7	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :4 (1 cement: 4 coarse sand).	cum	3.00	5,037.20
8	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	sqm	214.50	417.60
9	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement-All work upto plinth level			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	1.31	4,902.30
10	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats, square or round bars etc. All complete.	kg	150.00	114.20
11	Reinforcement for R.C.C. work including straightening,C10cutting, bending, placing in position and binding all complete.			
a	Thermo-Mechanically Treated bars TMTC-500-8mm dia	kg	50.00	77.40
b	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	80.00	76.70
12	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	Foundations, footings, bases of columns etc. for mass concrete.	sqm	12.00	186.30
13	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
14	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	1.20	4,033.00
15	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	cum	80.00	238.60
16	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	KL	441.39	92.20
17	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	300 mm dia. R.C.C. pipe metre	Rmt.	5.00	522.20
19	Carrage of the following material			
a	Local Sand	Cum	80.00	262.05
b	Sone Sand (45 km from Koelwar)	Cum	6.84	878.40
c	Stone Aggregate ,(156 Km From Domchch, Koderma	Cum	11.16	2,564.53
d	Bricks (7P+ 1K)	%o	1.50	759.49
e	Bricks Agreegate (7P+ 1K)	cum	15.00	373.80
f	Difference of Cost of Bricks	%o	1.50	1,470.46
g	Difference of Cost of Cement	tonn	1.19	636.50
h	Difference of Cost of Bricks Agree Gate	cum	15.00	117.31

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-04

SHORT URGENT TENDER NOTICE NO. Engg./ 17(Civil) /2018-19

Sl. No.	Name of the Work :-	Drilling of Deep Bore Tube Well and Installation of Submersible Motor for Supplying Water to Residential Area at IGIMS,Patna-14
1	Estimated Cost (In Rs.) :-	Rs. 9,43,000/-
2	Earnest Money (In Rs.) :-	Rs. 18,900/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1,250/-
4	Time of completion :- (In Days)	30 Days
5	Date, time & place for submission of Complete tender-	As Per NIT
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT

Sl. No.	Item Description	Unit	Qty.	Rate Quoted By Bidder
Head-(A)	NON SCHEDULE ITEM			
Item no-01	Drilling of deep bore tube well & installation with following services.included all taxes.			
a	Transportation of boring equipments.	complete job	1	
b	construction of pit 15' x 15' x 6' for storage water	each	1	
c	Labour charges for boring of 450mm dia bore	Meter	150	
d	Labour charges for lowering of tube well & gravel	meter	146.45	
e	Labour charges of low tube well by air compressor.	complete job	1	
f	Formation & sample Collection for prepof aasy	per job	1	
g	Cost of earth filling from GL to 6M Tube well	per job	1	
h	Installation & commissioning charge of motor & all nec. Elect.	per job	1	

	Supply,insttallation & testing of following items.included all taxes.			
Item no-02	200mm dia CM gr pvc ISI pipe	meter	40	
Item no-03	150mm dia CM gr pvc ISI pipe	meter	85	
Item no-04	150mm dia CM gr pvc ISI pipe	meter	30	
Item no-05	small fittings like well cap,well plug etc	per job	1	
Item no-06	Koderma or gravrel	cum	37	
Item no-07	support clamp 75 mm dia	Each	2	
Item no-08	75 mm dia GI B class pipe	meter	29.849	
Item no-09	75 mm dia GI bend	each	1	
Item no-10	75 mm dia gate valve	each	1	
Head-(B)				
	No. of stages :- 03 Total Head :- 38 mtr on Discharge capacity 84,000 L/Hr to 59 mtr on Discharge capacity 48,000 L/Hr. Liquid to be handled :- Clear cold water free from sand and acid Well dia :- 200 mm or above Out let size:- 100 mm (4") or above Motor rating :- 15 KW / 20 HP Supply voltage:- 400 volt (+/- 10%) Cable size :- 2 x 3 x 4 sq mm.included all taxes.			
Item no -01	Pumpset with 3 mtr Cable	each	1.00	
Item no -02	L & T make control Panel	each	1.00	
Item no -03	supporting Clamp as required	each	2.00	
Item no -04	MS heavy duty column pipe in 3 mtrs. Extra cable size 1x3x4 sqmm as required 100mm NB	meter	24.00	
Item no -05	Extra cable size 1 x 3x 2.4 sqmm	Meter	129.29	
Item no -06	MS bend with both end Flanged as required	each	2.00	
Item no -07	IS mark Gate valve as required	each	1.00	
Item no -08	IS mark Non Return Valve as required	each	1.00	
Item no -09	Instalation & commissioning charge.	each	1.00	

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-05

SHORT URGENT TENDER NOTICE NO. Engg./ 17(Civil) /2018-19

Sl. No.	Name of the Work :-	Laying of Water Supply pipe line on Terrace Floor of Hospital Building at IGIMS,Patna-14
1	Estimated Cost (In Rs.) :-	Rs. 7,39,917/-
2	Earnest Money (In Rs.) :-	Rs. 14,800/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1,250/-
4	Time of completion :- (In Days)	15 Days
5	Date, time & place for submission of Complete tender-	As Per NIT
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT

Sl. No.	Item Description	Unit	Qty.	Rate
CIVIL SCHEDULE				
1	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.			
a	50 mm diameter pipe	metre	86.52	391.10
3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, 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 pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
a	40 mm nominal outer dia Pipes	metre	212.18	339.70
b	50 mm nominal outer dia Pipes	metre	216.30	522.20
c	25 mm nominal outer dia Pipes	metre	70.00	206.80
4	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :			
a	50 to 80 mm nominal bore	each	50.00	637.80
5	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	50 mm nominal bore	each	5.00	811.40
b	80 mm nominal bore	each	2.00	2,016.50
6	Providing and fixing gun metal non- return valve of approved quality (screwed end) :			

a	25 mm nominal bore (Horizontal)	each	5.00	430.80
b	32 mm nominal bore (Horizontal)	each	5.00	579.90
7	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :			
a	25 mm nominal bore	each	10.00	170.60
b	32 mm nominal bore	each	15.00	213.30
c	40 mm nominal bore	each	10.00	292.70
d	50 mm nominal bore	each	10.00	358.40
e	80 mm nominal bore	each	10.00	712.40
8	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :			
a	25 mm nominal bore	each	30.00	469.40
9	Painting (two or more coats) on rain water, soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour over a priming coat of ready mixed zinc chromatic yellow primer on new work.			
a	50 mm diameter pipes	metre	84.00	13.10
b	75 mm diameter pipes	metre	312.00	18.20
10	Painting (one more coats) on rain water soil, waste and vent pipes and fittings with synthetic enamel paint of approved brand and manufacture and required colour on old work:			
a	50 mm diameter pipes	metre	600.00	5.80
12	Excavating trenches of required width for pipes cables, etc, including excavation for sockets, depth upto 1.5 m including getting out the excavated materials , returning the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. stacking serviceable material for measurements and disposed ' of unserviceable material as directed, within a lead of 50 m:			
a	Pipes, cables etc exceeding 80 mm dia but not exceeding 300 mm dia	rmt	105.0	523.30
14	Providing and laying D.I. Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :			
a	Up to 600 mm dia	quintal	0.230	16962.80
	Providing lead caulked joints to spun iron or C.I. pipes and specials, including testing of joints but excluding the cost of pig lead :200 mm diameter pipe	each	6.0	283.70
	Supplying pig lead at site of work.	quintal	0.20	10,997.30
	CIVIL NSI ITEM			Rate Quoted By Bidder
1	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.Make TATA Class-B 80 mm dia nominal bore	metre	358.78	

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-06

SHORT URGENT TENDER NOTICE NO. Engg./ 17(Civil) /2018-19

Sl. No.	Name of the Work :-	Repair and Painting work of Deptt. of Academic Cell at 1st floor in Polyclinic Building, at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	Rs. 3,27,400/-
2	Earnest Money (In Rs.) :-	Rs. 6,600/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 750/-
4	Time of completion :- (In Days)	15 Days
5	Date, time & place for submission of Complete tender-	As Per NIT
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT

Sl. No.	Item Description	Unit	Qty	Rate
	CIVIL SCHEDULE			
	PAINTING AND FINISHING WORK			
1	Making opening in brick masonry including dismantling, fixing chowk hats in floor or walls cutting masonry and fixing hold fasts in cement concrete 1:3:6(1 cement:3 coarse sand:6 stone aggregate 20 mm nominal size) painting two coats of coal tar io sides of choukhat and making good the damages to walls and floors complete to match the existing surface.			
a	For door	Sqm.	2.00	447.40
2	Providing and fixing flush door shulter of centuary board or greenply or kitply have non decorative typecore of block board 32 mm t hick including anodised aluminium butt highest with necessary screws aluminium handle, l-drope, twoer bold etc as per specification of E/S.	Sqm.	2.88	2,750.92
3	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats, square or round bars etc.all completeFixed to steel windows by welding	kg	205.00	114.20
4	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 Sqm and under including cutting the patch in proper ing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			
a	With cement mortar 1:4	Sqm	198.50	213.30
5	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	1,985.00	8.10
6	Distemping with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	1,985.00	27.20

7	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	1,985.00	31.70
8	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.	198.50	82.80
9	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	Sqm.	642.00	70.40
10	Renewing glass panes, with putty and nails wherever necessary: Float glass panes weighing 10 kg/m ² (4mm thick glass)Float glass panes of thickness 4 mm	sqm	10.00	620.30
11	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	each	10.00	54.00
12	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:			
a	300x10	each	5.00	105.20
13	Supply and fixing bright finished brass hanging type floor door stopper with necessary screws etc complete.	Each	10.00	91.70
14	Providing and fixing bright finish aluminium sliding door bolt anodised with nuts and screws etc.			
a	300X16mm	Each	5.00	220.40
15	Providing and fixing P.V.C. waste pipe for sink or wash basin includingP.V.C. waste fittings complete.			
a	Semi rigid pipe 32 mm dia each	each	12.00	86.20
16	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes,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 pipes & fittingswith one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
a	20 mm nominal bore	metre	46.00	255.70
17	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threadingthe pipe and making long screws, including excavation,refilling the earth or cutting of wall and making good the same complete wherever required :			
a	20 mm dia nominal bore.	each	10.00	332.40
18	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	12.00	401.40
19	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	each	12.00	588.20
20	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) 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 Motar 1:3(1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	4.65	739.80

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-07

SHORT URGENT TENDER NOTICE NO. Engg./ 17(Civil) /2018-19

Sl. No.	Name of the Work :-	Repair, Renovation , Painting and Modernization work of Minor O.T 3rd. Floor of Ward Block at IGIMS, Patna - 14		
1	Estimated Cost (In Rs.) :-	Rs- 2,65,825/--		
2	Earnest Money (In Rs.) :-	Rs. 5,350/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 750/-		
4	Time of completion :- (In Days)	15 Days		
5	Date, time & place for submission of Complete tender-	As Per NIT		
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT		
Sl. No.	Item Description	Unit	Qty	Rate

Sl. No.	Item Description	Unit	Qty	Rate
CIVIL SCHEDULE				
1	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead:			
a	In cement mortar	cum	1.31	685.10
2	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead.	cum	0.504	1,172.70
3	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacture) 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	63.80	739.80

4	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.	Sqm.	63.80	17.90
5	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08 % and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joint with white cement and matching pigments etc.complete.Size of Tile 600x600 mm.	sqm	24.00	1,520.90
6	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.	sqm	24.00	-429.30
7	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	sqm	24.00	380.60
8	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having height of 24 mm and width of 34 mm made of GI steel 0.45 mm thick is then fixed to the main C carrier and in direction perpendicular to it at 600 mm centers with help of suspension brackets. Wherever the main C carrier and spring T have to join,C carrier and spring T connectors have to be used. All sections to be galvanized @ 120 gms/sqm (both side inclusive), fixing with clip in tiles into spring T with :12.54x BCD/SOR			
a	Metal Ceiling Clip in plain Beveled edge global white color tiles of size 600x600 and 0.5 mm thick with 25 mm height, made of GI sheet having galvanizing of 100 gms/ sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending. sqm	sqm	24.00	1,357.90

9	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 Sqm and under including cutting the patch in proper ing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			
a	With cement mortar 1:4	Sqm	5.00	213.30
10	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	70.00	8.10
11	Distemping with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	70.00	27.20
12	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	70.00	31.70
13	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.	20.00	82.80
14	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	Sqm.	20.00	70.40
15	Providing and fixing anodised aluminium work for doors, windows, ventilator and partitions with extruded built up standard tubular and other sections of approved make conforming to IS : 733 and IS : 1285,anodised trasparent or dyed to required shade according to IS : 1868,(Minimum anodic coating of grade AC 15), fixed with.rawl plugs and screws or with fixing clips , or withexpansion hold fastners including necessary filling up of gaps at junctions, at top,bottom and sides with required PVC/neoprene felt etc.Aluminium sections shall be smooth, rust fre straight, mitred and jointed mechanically wherever required including cleat angle,.Aluminium snap beading tor glazing/paneling, C.P brass/stainless steel screws, all complete as per architecttural drawings and the directions of Engineer-in-charge. (GlazingFor fixed portion and panelling to be paid for separately	kg	60.96	369.20

16	Providing and fixing 4mm thick ACP of approved brand and manufacture in panelling fixed in aluminium doors, window shutters and partition frames, with C.P. brass/stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge	sqm	10.19	1,198.89
17	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	Float glass panes. 5.5 mm thick glass pane.	sqm	1.44	1,355.80
18	Providing and fixing fitting aluminium glazed sliding window with 4 mm thick glazing of frost glass fitted on aluminium rail all complete as per specification and direction of E/S.	sqm	2.105	2,959.00
19	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete. Fixed to steel windows by welding	kg	200.00	114.20
20	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc.	Each	2.00	429.50
21	Providing and fixing aluminium handles anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. 125mm	Each	4.00	54.00
22	Supply and fixing bright finished brass hanging type floor door stopper with necessary screws etc. complete.	Each	4.00	91.70
23	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, 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 pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
a	20 mm nominal outer dia Pipes	m	12.00	255.70

24	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)			
a	20 mm dia nominal bore.	Each	4.00	155.20
25	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25mm dia nominal bore.	Each	1.00	461.80
26	Providing and fixing PTMT grating of approved quality and colour.Circular type125 mm nominal dia with 25 mm waste hole.	each	2.00	49.90
27	Providing and fixing on wall face unplasticised-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	110 mm diameter	rmt	15.00	238.30
28	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
(ii)	Single tee without door			
	110x110x110 mm	each	2.00	183.10
(iii)	Band 87.5			
	110 mm dia PVC	each	2.00	124.70
29	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever requireWhite Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap	Each	1.00	2,307.10

30	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 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 :			
a	W.C. pan with ISI marked white solid plastic seat and lid	Each	1.00	3,310.00
31	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	2.00	401.40
32	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	each	4.00	588.20
33	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.			
a	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	0.48	4,033.00
34	Extra for Providing and fixing flush doors with decorative veneering instead of non decorative ISI marked flush door shutters conforming to I.S. 2202 (part I).			
a	On one side only	sqm	27.87	423.40
35	Extra cost for carriage of Material			
a	Sone Sand (45 km from Koelwar)	Cum	3.35	878.40
b	Stone Aggregate ,(156 Km From Domchch, Koderma	Cum	0.39	2,564.53
e	Difference of Cost of Cement	tonn	1.80	636.50

