

**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-01**

**SHORT URGENT TENDER NOTICE NO.- 03 /IGIMS/ Engg Cell/CW/Tender/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Provision of Drinking water facility in front of emergency at IGIMS, Patna-14</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 6,28,341/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>As Per NIT</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>As Per NIT</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>As Per NIT</b>		
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>		<b>As Per NIT</b>		
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>		<b>As Per NIT</b>		
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>		<b>As Per NIT</b>		
<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	15.7	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead			
a	15.7.4	In cement mortar	cum	1.00	823.70
2	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of ng,shuttering,finishing and reinforcement-All work upto plinth level			
a	5.1.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	2.97	4688.30
3	11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	sqm	21.60	283.30
4	4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
a	4.1.3	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	2.85	3998.10
5	6.1.12/1	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :4 (1 cement: 4 coarse sand ).	Cum	3.38	5017.90
6	6.18A	Half brick masonry with bricks of class designation 100A in foundations and plinth in :			
a	6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse send)	sqm.	5.24	599.30
7	13.12.2	15 mm cement plaster on rough side of single or half brick wall of mix 1:4(1 cement: 4 coarse sand )	Sqm	20.00	176.40
8	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all omplete.			
a	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm	kg	200.00	94.50
9	5.9	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	5.9.5	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	20.00	404.70
10	11.36	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	sqm	18.00	795.00

		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.			
11	9.147D.1	Providing and fixing factory made uPVC white colour sliding glazed window upto 1.50 m in height dimension comprising of uPVC multichambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately) Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of			
a	9.147D.1	Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 SQM.)	Sqm	18.00	7074.90
12	21.8	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.			
a	21.8.1	Upto 5mm depth and 5 mm width	mtr.	25.00	85.20
13	21.3	Providing and fixing glazing in alumnum door, window,Ventilator shutter and partition etc.with EPDM rubber/neoprene gasket etc. Complete as per the architectural drawings and the direction of engineering-in-charge.(cost of alluminium snap beading shall be paid in basic item.)			
a	21.3.2	Float glass panes.5.5 mm thick glass pane.	sqm	14.40	1115.10
14	13.80.A.2	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	26.36	81.10
15	13.46	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade			
a	13.46A.1	New work (Two or more coat applied @ 1.43 ltr/ 10sqm over and including priming coat of exterior	sqm	26.36	132.50
16	9.133.2.1	Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS :14862 with suitable fibre cement screw 8 mm thick. ( everest Havy duty or its equavalant.)	sqm	21.60	853.10
17	8.2	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 (1cement : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.granite			
a	8.2.2.2	Area of slab over 0.50 sqm	sqm	28.44	4401.20
18	18.76	Cutting holes up to 30x30 cm in walls including making good the same			
a	18.76.1	With common burnt clay F.P.S. (non modular) bricks	each	2.00	198.50
19	13.82	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade:			
a	13.82.1/2	New steel work /New wood work(two or more coats)	sqm	37.32	83.50
20	10.16.1	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coar of approved steel primer, welded and bolted including special shaped washers etc. complete:Hot finished welded	kg	185.00	123.90

		type tubes			
21	18.9	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fitting this includes jointing of pipes & fitting with one step CPVC solvent cement, trenching, refilling & testing of joints complete as direction of engineer in charge. (External work)			
a	18.9.2	20 mm nominal outer dia pipes	metre	29.00	205.30
b	18.9.4	32 mm nominal outer dia Pipes	metre	55.00	359.10
22	18.46	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	18.46.2	20 mm nominal bore	each	5.00	185.60
b	18.46.4	32 mm nominal bore	each	10.00	306.00
23	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete			
a	18.18.2	20 mm nominal bore	each	2.00	397.40
24	12.78	Providing and fixing on wall face unplasticised -PVC (working pressure 4 kg 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	12.78.2	110 mm diameter	metre	16.50	257.50
25	12.79	Providing and fixing on wall face unplasticised -PVC molded fitting/accessories for unplasticised PVC rain water pipes conforming to IS:4985 including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.			
a	12.79.3	Single tee with door			
i	12.79.3.2	110 mm	each	3.00	193.40
b	12.79.5	Band 87.5°			
i	12.79.5.2	110mm bend	each	3.00	132.00
c	12.79.4	Single tee without door			
i	12.79.4.2	110x110x110 mm	each	3.00	190.70
26	18.5	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.			
a	18.50.1	15 mm nominal bore	each	10.00	715.10
27	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931			
a	18.52.1	15 mm nominal bore	each	10.00	594.80
28	10.36	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg.	145.00	546.80
29	18.37	Constructing masonry Chamber 60x45x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :			



**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-02**

**SHORT URGENT TENDER NOTICE NO.- 03 /IGIMS/ Engg Cell/CW/Tender/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair Painting work of Bathroom in T-zone Area , Making Dining Table, Showcase, Pantry Table in Neurosurgery Deptt. at IGIMS, Patna-14</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 4,24,606/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>As Per NIT</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>As Per NIT</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>As Per NIT</b>
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>	<b>As Per NIT</b>
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>	<b>As Per NIT</b>
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>	<b>As Per NIT</b>

<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	15.52	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	10.00	396.10
2	17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) onforming to IS : 7231, with all fittings and fixtures complete.			
a	17.18.1	10 litre capacity - White	each	8.00	905.50
3	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.			
a	15.23.1	For thickness of tiles 10 mm to 25 mm	sqm	8.00	30.70
4	15.12	Dismantling doors windows and clerestory windows (steel or wood) shutters including chowkhats, architrage, holdfasts etc. complete and stacking within 50 m lead.,			
a	15.12.1	of area 3 Sq.m. and below	Each	12.00	151.80
5	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead:	Cum	1.00	1,411.20
6	9.133.2.1	Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS :14862 with suitable fibre cement screw 8 mm thick. ( everest Havy duty or its equavalant.)	sqm	5.76	853.10
7	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete			
a	10.16.1	Hot finished welded type tubes	kg	150.00	123.90
8	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5sqm and under including cutting the patch in proper shape and preparing and plastering the surface			

		of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			
a	14.1.2	With cement mortar 1:4(1 cement:4 coarse sand)	sqm	90.00	237.20
9	13.80.A.1	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.	90.00	81.10
10	13.93.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	sqm	268.62	54.30
11	13.77.3	Distempering with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	900.00	33.20
12	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	900.00	38.70
13	13.80	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repairs scratches etc. Gmplete	Sqm	900.00	9.70
14	17.7	Providing and fixing wash basing with C.I. brackets 15mm C.P. brass pillar taps 32mm C.P. brass waste of standard pattern, including painting of fitting and brackets, cutting and making good the walls wherever require.			
a	17.7.1	White vitreous china wash basing size 630X450 mm with a pair of 15 mm C.P. brass pillar taps.	Each	2.00	2,764.40
15	17.1	Providing and fixing water closet squatting pan (Indian type W.C.pan )with 100 mm sand cast Iron P or S trap, 10 litre low fixtures complete,including cutting and making good the walls and level white P.V.C.flushing cistern, including flush pipe, with manually controlled device(handle lever) conforming to IS : 7231, with all fittings and floorswherever required :			
a	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	1.00	4,470.90
16	17.2	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	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	1.00	4,230.00
17	18.9	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fitting this includes jointing of pipes & fitting which one step CPVC solvent cement, trenching, refilling & testing of joints complete as direction of engineer in charge. (External work)			
a	18.9.4	32 mm nominal outer dia Pipes	metre	24.00	359.10
b	18.9.3	25 mm nominal outer dia pipes	metre	35.00	294.70
c	18.9.2	20 mm nominal outer dia pipes	metre	43.00	205.30
18	18.46	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	18.46.2	20 mm nominal bore	each	6.00	185.60
b	18.46.3	25 mm nominal bore	each	4.00	265.90
c	18.46.4	32 mm nominal bore	each	3.00	306.00
19	12.78	Providing and fixing on wall face unplasticised -PVC (working pressure 4 kg 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	12.78.1	75 mm diameter	metre	25.00	162.70
b	12.78.2	110 mm diameter	metre	35.00	257.50
20	12.79	Providing and fixing on wall face unplasticised PVC molded fitting/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.			
b	12.79.3	Single tee with door			
i	12.79.3.2	110 mm	each	6.00	193.40
c	12.79.5	Band 87.5°			
i	12.79.5.1	75mm bend	each	6.00	91.80
ii	12.79.5.2	110mm bend	each	6.00	132.00
21	17.28	Providing and fixing P.V.C. Waste pipe for Kitchen sink or wash basin including P.V.C. waste fitting complete.			
a	17.28.1	Semi rigid pipe			
i	17.28.1.1	32 mm dia	Each	6.00	91.00
22	18.58	Providing and fixing PTMT grating of approved quality and colour.			
a	18.58.1.2	125mm nominal dia with 25 mm waste hole.	Each	6.00	45.20
23	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)			
a	18.17.2	32 mm nominal bore.	Each	2.00	589.90
24	18.55.1	Providing and fixing PTMT stop cock of approved quality and colour. 15 mm nominal bore, 86 mm long, weighing not less than 88gms	each	10.00	103.10
25	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	10.00	434.20
26	17.31	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	4.00	1,068.50
27	18.74	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.			
a	18.74.2	15 mm nominal bore with 45 cm length	Each	6.00	108.00
28	18.65	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	96.80
29	9.83	Supply and fixing IS : 3564 bright finished brass hydraulic door closer (best make of approved quality) with necessary accessories and screw etc. Complete.	Each	4.00	979.50
30	9.82	Supply and fixing bright finished brass hanging type floor door stopper with necessary screws etc complete	Each	8.00	108.10
31	9.96.2	Providing and fixing alluminium sliding door bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete: 250x 16 mm	Each	8.00	210.10
32	9.97	Providing and fixing alluminium sliding tower bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete:			
a	9.97.1	300x10 mm	Each	4.00	111.40
b	9.97.4	150x10 mm	Each	4.00	71.60
33	9.100.2	Providing and fixing alluminium handles anodised (anodic coating not less than grade AC 10 as per IS :1868)	Each	8.00	50.30

		transparent or dyed to required colour and shade with necessary screws etc. complete 100mm			
34	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.			
a	4.1.3	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	1.00	3,998.10
35	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen latforms, vanity counters, window sills, facias and similar ocations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.			
a	8.2.1	Rajnagar plain white marble /Udaipur green marble/ Zebra block marble			
i	8.2.2.1	Area of slab upto 0.50 sqm	sqm	2.88	4,242.90
36	11.37	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 , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand ) including pointing the joints with white cement and matching pigment etc., complete.	sqm	10.00	686.80
37	11.36	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	10.00	795.00
38	26.90	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain white color board for backing of cup boards and bathroom/kitchen cabinets etc. of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/mrice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm, modulus of elasticity 850 N/mm and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel screws etc. all as per direction of Engineer-In- Charge. (Note: stainless steel screws shall be paid separately)			
a	26.90.2	12 mm thick	sqm	6.00	1,454.90
39	26.89	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid board one side white colour and other side of board laminated with PVC foil of minimum 14 micron thickness of approved design pasted with hot melt adhesive for cup boards, work stations and bathroom/kitchen cabinet etc. of required sizes comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ icehusk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm, modulus of elasticity 850 N/mm and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel piano hinges/soft close clip			



		on concealed hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In-Charge. (Note: stainless steel piano hinges/soft close clip on concealed hinges and necessary S.S screws shall be paid separately)			
a	26.89.1	18 mm thick	sqm	25.32	2,625.10
b	26.89.1	25 mm thick	sqm	15.81	3,441.20
40	17.9	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required			
a	17.9.1	White glazed fire clay kitchen sink of size 600x450x250 mm	each	1.00	2,778.00
41	21.3	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):			
a	21.3.2	With float glass panes of 5.5 mm thickness	sqm	12.00	1,115.10
42	9.53	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts,nuts and wooden plugs and embeddings in cement concrete block 30x10x15 cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Each	10.00	130.80
43	9.81	Providing and fixing bright finished brass handles with screws etc. complete:			
a	9.81.1	100mm	each	5.00	202.10
44	9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.			
a	9.79.2	50 mm	each	5.00	222.00
45	9.116	Providing and fixing sliding arrangement in racks/ cupboards/cabinets shutter by with stainless steel rollers to run inside C or E aluminium channel section (The payment of C or E channel shall be made separately)	each	5.00	17.70
46	9.80	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with	each	5.00	56.70
47	9.61.	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete			
a	9.61.2	Overall width 50 mm	Rmt.	3.00	177.50
48	9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:			
a	9.63.4	100x10 mm	each	5.00	35.40
49	9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete .			
a	9.114.1	Triple strip vertical type	each	10.00	44.80
50	6.18A	Half brick masonry with bricks of class designation 100A in foundations and plinth in :			
a	6.18.4A	Cement mortar 1:4 (1 cement: 4 coarse send)	sqm.	5.25	599.30
51	6.19A	Extra for half Brick masonry in superstructure above pinth level upto floor V level.	sqm.	5.25	89.70
52	-	<b><u>Extra cost for carriage of Material</u></b>			
a		Sone Sand (45 km from Koelwar)	Cum	1.00	1,132.90
b		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	0.44	2,464.45



**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-03**

**SHORT URGENT TENDER NOTICE NO.- 03 /IGIMS/ Engg Cell/CW/Tender/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Provision of Shade for R.O Water Plant On the Terrace of OPD Block at IGIMS, Patna.-14</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 3,37,135/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>As Per NIT</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>As Per NIT</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>As Per NIT</b>
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>	<b>As Per NIT</b>
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>	<b>As Per NIT</b>
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>	<b>As Per NIT</b>

<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metres lead:	Cum	1.50	1411.20
2	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of ng,shuttering,finishing and reinforcement-All work upto plinth level			
a	5.1.2	1:1.5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	2.50	4688.30
3	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
a	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm	kg	90.00	94.50
4	5.9	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	5.9.5	Lintels, beams, plinth bams, grids, bressumers and contilevers.	sqm	14.00	404.70
5	10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete			
a	10.16.1	Hot finished welded type tubes	kg	650.60	123.90
6	9.48.1	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	998.19	144.50
7	12.50	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 non 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	sqm	78.66	625.10



**INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14**

**BILL OF QUANTITY-04**

**SHORT URGENT TENDER NOTICE NO.- 03 /IGIMS/ Engg Cell/CW/Tender/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair and Renovation work of Room No-438 in ward Block at IGIMS, Patna -14</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 1,26,403/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>As Per NIT</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>As Per NIT</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>As Per NIT</b>
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>	<b>As Per NIT</b>
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>	<b>As Per NIT</b>
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>	<b>As Per NIT</b>

<b>Sl. No.</b>	<b>BSR-2022</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
		<b>CIVIL SCHEDULE</b>			
1	15.56	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	17.33	21.70
2	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.		-	
a	15.23.1	For thickness of tiles 10 mm to 25 mm	sqm	14.67	30.70
3	14.1	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	14.1.2	With cement mortar 1:4	Sqm	20.00	237.20
4	13.80.	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	69.53	9.70
5	13.77.3	Distempering with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	69.53	33.20
6	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	69.53	38.70
7	13.80.A.1	Providing and applying white cement based putty of erage thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm.	69.53	81.10
8	13.93.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on old work	Sqm.	15.00	54.30
9	11.36	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	sqm	11.52	795.00

		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.			
10	11.37	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 , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand ) including pointing the joints with white cement and matching pigment etc., complete.	sqm	3.36	686.80
11	11.41.2	Providing and laying vitrified floor tiles in different sizes {thickness to be specified by the manufactruer) 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			
a		Tile 600x600 mm.	sqm	17.33	1,638.80
12	11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.	sqm	17.33	-480.60
13	11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.	sqm	17.33	446.80
14	17.2	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	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	1.00	4,230.00
15	18.52.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	each	3.00	594.80
16	9.96.2	Providing and fixing alluminium sliding door bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete: 250x 16 mm	Each	4.00	210.10
17	9.97	Providing and fixing alluminium sliding tower bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete:		-	
a	9.97..1	300x10 mm	Each	6.00	111.40
18	9.100.1	Providing and fixing alluminium 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:100mm	Each	4.00	57.10
19	14.81	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	Each	4.00	136.40
20	26.86	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceosetry windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm, modulus of elasticity 900 N/mm and resistance to spread of flame of			

		Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for Separately).			
21		Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e. depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.	mtr	6.30	567.50
a	26.86.1	Frame size 45 x 70 mm			
22	26.87	Providing and fixing factory made single extruded WPC {Wood Polymer Composite} solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 Suspension Grade), calcium carbonate and natural fibers {wood powder/ rice husk/wheat husk) and non toxic additives {maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800N {Face} & 900N (Edge), minimum compressive strength 50 N/mm, modulus of elasticity 850 N/mm and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In-Charge. {Note: stainless steel butt hinges and necessary S.S screws shall be paid separately			
a	26.87.1	30 mm thick	sqm	3.78	3,866.50
23	17.7	Providing and fixing wash basin with C.I. brackets, 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	17.7.2	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	1.00	2,369.90
24	17.28.1.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe 32 mm dia	Each	2.00	91.00
25	12.78	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	12.78.2	110 mm diameter	metre	19.86	257.50
26	12.79	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	12.79.4	Single tee without door			
i	12.79.4.2	110x110x110 mm	each	2.00	190.70
b	12.79.5	Band 87.5			
i	12.79.5.2	110mm	each	4.00	132.00
27	18.8	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	18.8.2	20 mm nominal outer dia Pipes	metre	25.00	350.80

