

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

**BILL OF QUANTITY-01**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Repair, Renovation and provision of vitrified floor tiles in vacant old D – Type quarter no- 3/4 , E- 3/1,NMNH-14 and OLD MDH – 3/9 at IGIMS, Patna-14</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 13,23,934/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>Rs. 26,500/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>Rs. 2,500/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>45 Days</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	15.23	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	460.00	30.70
2	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	9.00	151.80
3	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metres lead:	Cum	0.45	1,411.20
4	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	0.25	823.70
5	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of entering,shuttering,finishing and reinforcement-All work upto plinth level			
6	6.18.4A	Half brick masonry with bricks of class designation 100A in foundations and plinth in : cement mortar 1:4 (1 cement: 4 coarse sand)	sqm	3.89	599.30
7	13.18	15 mm cement plaster 1:3 (1 cement: 3 coarse sand ) finishe with a floating coat of neat cement on the rough side of single or half brick wall	sqm	41.27	229.30
a	5.1.2	1:1.5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)c	Cum	4.96	4,688.30
8	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	50.00	144.50
9	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	18.96	94.50
b	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	37.20	92.60
10	5.9	Centring and shuttering including strutting, propping etc. and removal of form for :			
a	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	6.00	437.50
11	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	80.00	237.20
12	13.8	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repari scratches tec. Gmplete	Sqm	992.00	9.70
13	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	992.00	33.20
14	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm	992.00	38.70
15	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.	500.00	81.10
16	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :			
a	13.46.1	New work (Two or more coat applied @ 1.67 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	Sqm.	138.25	137.00
17	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	253.00	54.30
18	2.37.5	Treatment at points of contact of wood work by chemical emulsion chlordane. (in oil or kerosene based solution)@ 0.5 litres per hole by drilling 6 mm dia holes at downward angle of 45 degree at 150 mm centre to centre and sealing the same.	metre	320.73	270.20
18	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type,core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:			
a	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	20.00	1,775.30
19	9.23	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (overall area of door shutter to be measured)	sqm	20.00	401.40
20	9.124	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wallthickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced withM.S. tubes of size 33 mm x 17 mmx 1mm, painted with primer, all fourcorners of reinforcement to be welded or sealed. Solid PVC extrudedbidding (push fit type) will be set inside the styles and the rails with a cavity,to receive single piece extruded 5 mm PVC sheet as panel. The styles andrails will be mitred cut and joint with the help of			

		PVC solvent cement & selfdriven self tapping screws. Single piece extruded solid PVC lock rail of size100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solventcement & self driven self tapping screws of size 100 mm x 8mm completeas per manufacturerø specifications and direction of Engineer-in-charge.			
a	9.124.1	Non decorative finish	sqm	1.46	2,898.90
21	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	6.00	4,401.20
22	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	4.00	91.00
23	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	5.00	108.00
24	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	5.00	434.20
25	9.97	Providing and fixing aluminium 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	5.00	111.40
b	9.97.4	150x10 mm	Each	5.00	71.60
26	9.81	Providing and fixing bright finished brass handles with screws etc. complete:			
a	9.81.1	125 mm	each	28.00	202.10
27	9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. Complete			
a	9.114.2	Double strip (horizontal type)	each	28.00	34.10
28	9.115	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer-in-charge.	each	40.00	355.00
29	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete:			
a	9.74.2	200x10mm	each	18.00	227.30
30	14.40	Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete.			
a	14.40.1	125x70x4 mm (ordinary type)	each	48.00	160.70

31	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. complete100mm	Each	10.00	57.10
32	9.82	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	7.00	108.10
33	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
34	17.10	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	17.10.2	Kitchen sink without drain board			
I	17.10.2.2	610x460 mm bowl depth 200 mm	Each	1.00	2,812.90
35	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	10.00	35.40
36	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	10.00	222.00
37	9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. Complete			
a	9.114.2	Double strip (horizontal type)	each	10.00	34.10
38	9.127	Providing & Fixing decorative high pressure laminated sheet of plain/ wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality			
a	9.127.2	1.0 mm thick	Sqm	211.00	669.00
39	11.39	Providing and laying Ceramic glazed floor tiles 400x400 mm (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 13755 of NITCO , ORIENT , SOMANY , KAJARIA or equivalent 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 grouting the joints with white cement and matching pigments etc, complete.	sqm	22.00	1,329.80
40	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	20.00	795.00

41	11.41.2	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.			
a	a	Size of Tile 60x60 cm	sqm	95.00	1,638.80
42	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	95.00	-480.60
43	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	95.00	446.80
44	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	2.00	4,230.00
45	14	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required			
a	14.7	150 mm dia	each	1.00	17,300.00
46	21.1.1.1	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 transparent 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 with expansion 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 free straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing/paneling, C.P. brass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing For fixed portion and panelling to be paid for separately	kg	120.00	386.10
47	9.135	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.50 mm all complete.			
a	9.135.2	With 12 mm mild steel U beading	sqm	26.00	879.20
48	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C. kitchen and the like consisting of: (i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions. (ii) 2nd course of 20 mm cement plaster 1:3 (1 cement:3 coarse sand) mixed with water proofing compound in recommended proportion, (iii) 3rd course of applying blown or/residual bitumen applied hot at 1.7 kg. per sqm of area,	sqm	7.00	480.60

		(iv) 4th course of 400 micron thick PVC sheet.(Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/sqm).			
49	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	125.00	257.50
50	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	21.00	190.70
c	12.79.1	Coupler			
i	12.79.1.2	110mm	each	5.00	120.00
d	12.79.5	Band 87.5			
i	12.79.5.2	110mm	each	16.00	132.00
51	12.8	Providing and fixing unplasticised -PVC pipe clip of approved design to unplasticised 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: 4 coarse sand and making good the wall etc complete			
a	12.80.2	110 mm	Each	48.00	182.72
52	6.1C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :			
a	6.1.14C	Cement mortar 1:6 (1 cement: 6 coarse sand )	Cum	0.88	4,923.00
53	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	210.00	144.50
54		Extra cost for carriage of Material			
a		Sone Sand (45 km from Koelwar)	Cum	10.69	1,132.90
b		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	5.00	2,464.45
c		Difference of Cost of Cement	tonn	5.07	234.62
		CIVIL NON SHEDULE ITEM			
55	NSI	Providing and fixing 12mm thick Centutary/Green ply of approved brand. For cup-board , ward robe , partition / panelling Etc. All complete as per architectural drawings and directions of engineer-incharge	sqm	16.18	í í í ..
56	NSI	Providing and fixing 19mm thick Centutary/Green ply of approved brand. For cup-board , ward robe , partition / panelling Etc. All complete as per architectural drawings and directions of engineer-incharge	sqm	98.00	í í í ..
57	NSI	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-incharge	sqm	42.27	í í í ..

58	NSI	Providing and Fixing Angular Stop Cock with wall flange all Complete. Jaguar Model FLR-5053N or equivalent.	Each	3.00	í í í ..
59	NSI	Providing and Fixing Pillar Cock Auto Closing System with 65 mm extension body all Complete. Jaguar Model PRS-031L65 or equivalent.	Each	2.00	í í í ..
60	NSI	Providing and Fixing shower with arm all complete. Arm size 300mm long 6" overhead shower. Make-Prayag cat no-BS-79S or equivalent.	Each	2.00	í í í ..
61	NSI	Providing and Fixing Jet spray with 1 meter PVC Tube (Stainless steel) all complete. ESSCO Model ALE-547 or equivalent.	Each	2.00	í í í ..
62	NSI	Providing and Fixing Two way angle Cock with flange all Complete. PRAYAG Model no-PIS-11 H or equivalent.	Each	2.00	í í í ..
63	NSI	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	2.00	í í í ..
64	NSI	Providing and Fixing Towel Ring round with round flange all complete. Jaguar Model ACN-CHR-1121BN or equivalent.	Each	18.00	í í í ..

**Quoted Rates:for schedule item**

- a- í í í í í í % above  
b- í í í í í í % below  
c- í í í í at estimated cost.

NOTE:-

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í ..  
2- Full postal address :-  
3- Earnest money deposited :-  
4- Registration No. :-  
5- Time of completion :-

Signature of Contractor

Superintending Engineer  
I.G.I.M.S., Patna

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

**BILL OF QUANTITY-02**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair, Renovation and Painting Work of B- Type 07 (Nos.) Quarter, 1 No. MDH Room No. 1/9 and New Boys Hostel Room No. 224 at IGIMS, Patna-14</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 7,24,024/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 14,500/-</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 1,250/-</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>30 Days</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>SCHEDULED ITEM</b>			
1	15.2	Demolishing cement concrete including disposal of material within 50 metre lead:			
a	15.2.1	1:3:6 or richer mix cum	cum	3.500	970.900
2	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-all work up to plinth level.			
a	4.1.4	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20,mm nominal size)	cum	3.500	3,879.400
3	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	5.000	396.100
4	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 shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 meters lead.			
a	14.1.2	With cement mortar 1:4(1 cement:4 coarse sand)	sqm	405.000	237.200
5	13.8	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	1,763.000	9.700
6	13.77.3	Distemping with oil bound washable Distemper of approved brand and manufacture to give an even shade Old work (one or more coats)	Sqm	1,763.000	33.200
7	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface: Distemper primer	Sqm	1,763.000	38.700
8	13.80.A.1	Providing and applying white cement-based putty of average thickness 1 mm, of approved brand and	Sqm.	405.000	81.100



		manufacturer, over the plastered wall surface to prepare the surface even and smooth complete			
9	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.	851.000	54.300
10	17.7.1	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 require : White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	3.000	2,764.400
11	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.			
a	18.9.4	32 mm nominal outer dia Pipes	metre	5.000	359.100
b	18.9.3	25 mm nominal outer dia	metre	72.880	294.700
c	18.9.2	20 mm nominal outer dia	metre	20.000	205.300
12	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 dia nominal bore.	Each	2.000	185.600
b	18.46.3	25 mm nominal bore	Each	3.000	265.900
13	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	18.17.1	25 mm dia nominal bore.	Each	3.000	532.300
14	18.58.1.2	Providing and fixing PTMT grating of approved quality and colour.Circular type125 mm nominal dia with 25 mm waste hole.	each	25.000	45.200
15	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	25.000	434.200
16	18.52.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	each	25.000	594.800
17	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	15.000	96.800
18	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe			
a	17.28.1.1	32 mm dia	each	65.000	91.000
19	17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.			
a	17.18.1	10 litre capacity - White	each	5.000	905.500
20	17.73	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	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	each	15.000	424.000
21	17.72	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	15.000	204.700
22	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type,core			

		of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:			
a	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	25.920	1,775.300
23	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	10.000	222.000
24	9.80.	Providing and fixing 50 mm bright finished brass cupboard or wardrobe knob of approved quality with	each	10.000	56.700
25	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.	52.339	177.500
26	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	25.000	44.800
27	9.92	Providing and fixing chromium plated brass handles with necessary screws etc. complete:			
a	9.92.3	75 mm each	each	35.000	176.200
28	21.3	Providing and fixing glazing in aluminum 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 aluminum snap beading shall be paid in basic item.)			
a	21.3.2	Float glass panes.5.5 mm thick glass pane.	sqm	31.680	1,115.100
29	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per litre	1,000.000	9.700
30	18.62	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminum rod with L.P./ H.P.H.D. plastic ball.			
a	18.62.2	20 mm nominal bore, 120 mm long, weighing not less than 198 gms	each	3.000	223.500
31	9.2	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1 st class hard wood and well matched teak 3 ply veneering wit			
a	9.20.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	sqm	25.200	2,271.900
32	9.127	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality			
	9.127.2	1.0 mm thick sqm	sqm	70.000	669.000
33		<b>Extra cost for carriage of Material</b>			
a		Sone Sand (45 km from Koelwar)	Cum	9.455	1132.9
b		Stone Aggregate ,(110 Km From Manpur)	Cum	3.115	2464.45

c		Difference of Cost of Cement	tonn	3.935	234.62
		<b>CIVIL NON SCHEDULE ITEM</b>			
34	NSI	Providing and fixing 19mm thick Centutary/Green ply of approved brand. For cup-board , ward robe , partition / panelling Etc. All complete as per archiectural drawings and directions of engineer-incharge	sqm	27.885	í í í .

**Quoted Rates:for schedule item**

- a- í í í í í í % above  
b- í í í í í í % below  
c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í ..  
2- Full postal address :-  
3- Earnest money deposited :-  
4- Registration No. :-  
5- Time of completion :-

Signature of Contractor

Superintending Engineer  
I.G.I.M.S., Patna

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

**BILL OF QUANTITY-03**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Making of Wood Polymer Composite Medical Rack With Counter for Pharmacy Store First Floor of Core block at IGIMS ,Patna -14</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 5,74,185/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>Rs. 11,500/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>Rs. 1,250/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>30 Days</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	13.80.	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	50.00	9.70
2	13.77.3	Distemping with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	50.00	33.20
3	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	50.00	38.70
4	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.	50.00	81.10
5	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.	60.00	54.30
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	130.49	144.50
7	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	3.00	4,401.20
8	26.90	Providing and fixing factory made single extruded WPC (WoodPolymer Composite) solid plain white color board for backing ofcup boards and bathroom/kitchen cabinets etc. of required sizecomprising of virgin polymer of K value 58-60 (SuspensionGrade), 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 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	54.27	1,454.90
9	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/ 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 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	140.00	2,625.10
10	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 direction of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):			
a	21.3.2	With float glass panes of 5.50 mm thickness (weight not less than 12.50 kg/sqm)	sqm	39.77	1,115.10
11	21.17	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200 mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be ensured for payment).	kg	4.96	511.00
12	21.1.1.1	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.	41.85	386.10



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

**BILL OF QUANTITY-04**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Making Wooden Nursing Counter ,Racks for Emergency Triage Area and Provision of Water Tank on the Terrace of at IGIMS ,Patna -14</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 4,33,933/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>Rs. 8,700/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>Rs. 750/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>30 Days</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>Description</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>
1	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 450 mm single 15mm CP brass pillar tap	Each	1.00	2369.90
2	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	48.32	205.30
b	18.9.3	25 mm nominal outer dia Pipes	metre	55.00	294.70
c	18.9.4	32 mm nominal outer dia Pipes	metre	10.80	359.10
d	18.9.5	40 mm nominal outer dia Pipes metre	metre	14.40	477.60
3	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	4.00	185.60
b	18.46.3	25 mm nominal bore each	each	10.00	265.90
c	18.46.4	32 mm nominal bore each	each	5.00	306.00
d	18.46.5	40 mm nominal bore each	each	6.00	419.70
4	18.19	Providing and fixing gun metal non- return valve of approved quality (screwed end)			
a	18.19.3	40 mm nominal bore			

b	18.19.3.1	Horizontal	each	1.00	815.00
5	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	per. Ltr.	4000.00	9.70
6	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete			
a	18.18.3	25 mm nominal bore	each	2.00	399.20
7	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)			
a	18.17.3	40 mm nominal bore	each	1.00	707.30
8	9.127	Providing & Fixing decorative high pressure laminated sheet of plain/ wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality			
a	9.127.2	1.mm thick	Sqm	145.00	669.00
9	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:			
a	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	1.89	1775.30
10	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	7.92	1115.10
11	9.81	Providing and fixing bright finished brass handles with screws etc. complete:			
a	9.81.1	100mm	each	20.00	202.10
12	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	20.00	222.00
13	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	20.00	17.70
14	9.80	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with	each	20.00	56.70
15	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.	7.20	177.50
16	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
		<b>Civil Non Schedule Items</b>			
17	NSI	Providing and fixing 12mm thick Centutary/Green ply of approved brand. For cup-board , ward robe , partition / panelling Etc. All complete as per architectural drawings and directions of engineer-incharge .	sqm	12.92	í í í ..



18	NSI	Providing and fixing 19 mm thick Centutary/Green ply of approved brand. For cup-board , ward robe , partition / panelling Etc. All complete as per archiectural drawings and directions of engineer-incharge	Sqm	86.98	í í í í
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**Quoted Rates:for schedule item**

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í í ..
- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

Superintending Engineer  
I.G.I.M.S., Patna

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

**BILL OF QUANTITY-05**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Provision of Water Tank , Repair of Attendant Bed, Aluminum Cabin 2.0 Nos. for Guard Changing Room in Ward Block , Repair and Painting of KTU in Diagnostic Block and other Miscellaneous Work at IGIMS, Patna-14.</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 4,33,011/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 8,700/-</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 750/-</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>30 Days</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	21.1.1.1	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.	73.60	386.10
2	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	11.00	151.80
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	100.00	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	550.00	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	550.00	33.20
6	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	550.00	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.	100.00	81.10
8	21.3	Providing and fixing glazing in aluminium 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 aluminium snap beading shall be paid in basic item.)			
a	21.3.2	Float glass panes.5.5 mm thick glass pane.	sqm	10.00	1,115.10
9	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	15.00	91.00
10	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	24.00	434.20
11	18.52.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	each	15.00	594.80
12	9.96.2	Providing and fixing aluminium 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	6.00	210.10
13	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	8.00	108.00
14	9.97	Providing and fixing aluminium 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	8.00	111.40
15	9.100.1	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. complete100mm	Each	8.00	57.10
16	17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.			
a	17.18.1	10 litre capacity - White	Each	5.00	905.50
17	9.124	Providing and fixing factory made 30 mm thick door shutter made of solidPVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wallthickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mmx 1mm, painted with primer, all fourcorners of reinforcement to be welded or sealed. Solid PVC extrudedbidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles andrails will be mitred cut and joint with the help of PVC solvent cement & selfdriven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded inthe middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8mm completeas per manufacturer's specifications and direction of Engineer-in-charge.			

a	9.124.2	Decorative finish (both side wood grained finish)	sqm	6.80	3,032.70
18	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	20.00	350.80
b	18.8.3	25 mm nominal outer dia Pipes	metre	15.00	463.10
19	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.			
a	18.9.6	50 mm nominal outer dia Pipes	meter	19.40	730.30
20	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	18.46.6	50 mm nominal bore	each	3.00	565.60
21	9.123	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length	meter	14.55	453.00
22	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per ltr	6,000.00	9.70
23	9.127	Providing & Fixing decorative high pressure laminated sheet of plain/ wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality			
a	9.127.2	1.0 mm thick	Sqm	69.60	669.00
24		<b><u>Extra cost for carriage of Material</u></b>			
a		Sone Sand (45 km from Koelwar)	Cum	2.00	1,132.90
b		Difference of Cost of Cement	tonn	1.50	234.62
		<b>CIVIL NON SHEDULE ITEM</b>			
25	NSI	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	22.00	í í í .
26	NSI	Providing and fixing 6mm thick Centutary/Green ply of approved brand. For cup-board, ward robe, partition / panelling Etc. All complete as per architectural drawings and directions of engineer-in-charge	sqm	5.76	í í í .
27	NSI	Providing and fixing 19mm thick Centutary/Green ply of approved brand. For cup-board, ward robe, partition / panelling Etc. All complete as per architectural drawings and directions of engineer-in-charge	sqm	28.80	í í í .
28	NSI	Providing and Fixing Hand shower (Health Faucet) with 8mm Dia, 1 Meter Long Flexible Tube & Wall Hook all	Each	7.00	í í í .



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

**BILL OF QUANTITY-06**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Drain Cleaning work in Hospital Campus along with north side boundary area at IGIMS, Patna-14.</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 4,07,649/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 8,200/-</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 750/-</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>15 Days</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 withing 50 metres lead:	cum	1.00	1,411.20
7	4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1cement :3 coarse sand : 6 graded stone aggregate 20 mm nominalsize) over 75 mm thick bed of dry brick ballast 40 mm nominal size,well rammed and consolidated and grouted with fine sand, includingfinishing the topsmooth	sqm	50.00	436.60
a	4.1.3	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	3.00	3,998.10
8	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of entring,shuttering,finishing and reinforcement-All work puto plinth level			
a	5.1.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)c	Cum	2.00	4,688.30
9	6.1C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :			
a	6.1.14C	Cement mortar 1:6 (1 cement: 6 coarse sand )	Cum	3.00	4,923.00
	19.35	Providing and laying Non Pressure NP-3 class (Medium duty)R.C.C. pipes including collars/spigot jointed with stiff mixture ofcement mortar in the proportion of 1:2 (1 cement : 2 fine sand)including testing of joints etc.complete			
a	19.35.1	450 mm dia RCC pipes.	per meter	10.00	2,167.10
12	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	50.00	94.50

b	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	50.00	92.60
13	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
14	13.11.2	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	20.00	152.90
15	13.26	Neat cement punning	Sqm.	20.54	40.50
17	19.3	Constructing brick masonry chamber for underground C.I.inspection chamber and bends with bricks in cement mortar 1:4 (1cement : 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	19.30.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :			
i	19.30.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1.00	5,942.00
19	19.19.1	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality L D- 2.5			
a	19.19.1.1	Rectangular shape 600x450 mm internal dimensions	each	20.00	1,120.60
b	19.19.1.2	Square shape 450 mm internal dimensions	each	5.00	946.80
20	2.25	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	kl.	133.00	107.20
21		<b>Extra cost for carriage of Material</b>			
a		Local Sand / Earth soil (3 Km)	Cum		310.47
b		Sone Sand (45 km from Koelwar)	Cum	4.18	1,132.90
c		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	6.15	2,464.45
e		Difference of Cost of Bricks	%o	1.48	1,420.51
f		Difference of Cost of Cement	tonn	3.35	234.62
		<b>CIVIL NON-SCHEDULE</b>			
22	NSI	Supplying Labour and Tools for cleaning of filled up and choked manhole chamber and different size sewer line including disposal silt with alinecessary arrangement .	cum	275.00	í í í í .

**Quoted Rates:for schedule item**

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

NOTE:-

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

1- Issued to :í í í í í í í í í í í í í í í í ..

- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

Superintending Engineer  
I.G.I.M.S., Patna



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

**BILL OF QUANTITY-07**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Provision of SS Sheet in Pillar at Ground Floor of M.S Cell ,Laying of Paver Block in Courtyard of OPD Block and Other Miscellaneous Work at IGIMS, Patna-14</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 3,84,162/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 7,700/-</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 750/-</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>30 Days</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	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	2.00	5017.90
2	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.	5.00	599.30
3	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	7.00	198.50
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	1.50	3998.10
5	13.18	15 mm cement plaster 1:3 (1 cement: 3 coarse sand ) finished with a floating coat of neat cement on the rough side of single or half brick wall	sqm.	20.89	229.30
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	158.50	144.50
7	12.78	Providing and fixing on wall face unplastidse -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	mtr.	3.60	162.70
b	12.78.2	110 mm diameter	metre	21.10	257.50

8	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.			
a	12.79.3	Single tee with door			
i	12.79.3.2	110 mm	each	7.00	193.40
b	12.79.5	Band 87.5°			
i	12.79.5.1	75 mm bend	each	3.00	91.80
ii	12.79.5.2	110mm bend	each	8.00	132.00
c	12.79.4	Single tee without door			
i	12.79.4.2	110x110x110 mm	each	5.00	190.70
9	18.5	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than			
a	18.50.1	15 mm nominal bore	each	10.00	715.10
10	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
11	16.83	Taking out existing CC interlocking paver blocks from footpath/central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of Engineer-in-Charge	sqm	57.60	61.00
12	16.84	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer- in-charge. (Old CC paver blocks shall be supplied by the department free of cost).	sqm	57.60	70.80
13	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing Complete	Cum	5.00	287.30
14	11.79	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.	sqm.	20.70	721.10
15	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.	471.20	546.80

16	9.101	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.			
a	9.101.2	Twin rubber stopper	each	24.00	60.80
17	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including			
a	17.28.1	Semi rigid pipe			
i	17.28.1.2	40 mm dia	each	32.00	101.70
18	17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.			
a	17.18.1	10 litre capacity - White	each	3.00	905.50
19	18.58	Providing and fixing PTMT grating of approved quality and colour.			
20	18.58.1.2	Circular type 125 mm nominal dia with 25 mm waste hole each 45.20	each	5.00	45.20
21	18.56	Providing and fixing PTMT pillar cock of approved quality and colour			
a	18.56.2	15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	each	8.00	194.20
22	18.54	Providing and fixing PTMT bib cock of approved quality and colour.			
a	18.54.4	15mm nominal bore, 90 mm long, weighing not less than 93gms	each	8.00	170.00
23	12.51	Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, 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 using self drilling/ self tapping screws complete			
a	12.51.6	Gutter (600 mm over all girth)	metre	4.60	898.70
24	13.79	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade			
a	13.97.2	Old work (one or more coats)	sqm	90.00	61.10
25		Extra cost for carriage of Material			
a		Local Sand	Cum	7.00	310.47
b		Sone Sand (45 km from Koelwar)	Cum	2.85	1132.90
c		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	1.15	2464.45
d		Bricks (7P+ 1K)	%o	1.28	840.43
e		Difference of Cost of Bricks	%o	1.28	1420.51
f		Difference of Cost of Cement	tonn	1.50	234.62

**Quoted Rates:for schedule item**

a- í í í í í í % above

b- í í í í í í % below

c- í í í í at estimated cost.

NOTE:-

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í ..
- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

Superintending Engineer  
I.G.I.M.S., Patna

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

**BILL OF QUANTITY-08**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair, painting Renovation, Water Proofing &amp; Wall Tiles , etc. in Old Boys Hostel Mess at IGIMS, Patna-14.</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 3,51,692/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 7,000/-</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 750/-</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>30 Days</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	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.		0.00	
a	15.23.1	For thickness of tiles 10 mm to 25 mm	sqm	38.88	30.70
2	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	5.06	3998.10
3	9.82	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	60.00	108.10
4	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.	26.91	283.30
5	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	3.36	287.30
6	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	30.00	237.20
7	13.80.	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	249.48	9.70
8	13.77.2	Distempering with oil bound washa ble distemper of approved brand and manufacture to give an even shade .New work (two or more coats ) over and including priming coat with cement primer	sqm	249.48	102.30

9	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	249.48	38.70
10	13.80.A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm.	174.24	105.40
11	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	25.00	35.40
12	21.3	Providing and fixing glazing in aluminum 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	8.24	1115.10
13	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	Sqm.	30.16	84.50
		WATER SUPPLY & SANITATION			
14	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	30.00	91.00
15	12.78	Providing and fixing on wall face unplastidse -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	10.00	162.70
b	12.78.2	110 mm diameter	metre	10.00	257.50
16	12.79	Providing and fixing on wall face unplastidse -PVC molded fitting/accessories for unplastidised PVC rain water pipes conforming to S: 4985 including jointing with seal ring conforing to IS:5382 leaving 10 mm gap for thermal expansion.			
a	12.79.1	Coupler			
I	12.79.1.2	110 mm	each	3.00	120.00
b	12.79.3	Single tee with door			
I	12.79.3.2	110 mm	each	2.00	193.40
c	12.79.5	Band 87.5°			
I	12.79.5.1	75mm bend	each	2.00	91.80
II	12.79.5.2	110mm bend	each	2.00	132.00
d	12.79.6	Shoe plain			
I	12.79.6.2	110 mm shoe	each	3.00	115.95
15	18.65	Providing and fixing PTMT soap dish holder having length of 138mm, breadth 102 mm height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	10.00	96.80
16	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	20.00	45.20

17	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	6.00	1068.50
18	22.22A	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	sqm	30.06	415.90
19	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 matchingshadecomplete.	sqm	36.00	795.00
20	21.1.1.1	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.	46.00	386.10
31	21.30	Providing and fixing glazing in aluminium 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	8.00	1115.10
21	11.26	Kota stone slab flooring over 20 mm (average ) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete . Base with 1:1:1 (1lime : 1 surkhi: 1 coarse sand ) / 1:4 (1 cement: 4 coarse sand )			
a	11.26.1	20 to 25 mm thick -	sqm	26.91	1252.70
22	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	sqm	2.70	625.10

		horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.			
23	10.16.1	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:Hot finished welded type tubes	kg	70.99	123.90
24	13.13	20 mm cement plaster of mix ;			
25	13.13.2	1: 4(1 cement: 4 coarse sand)	sqm	30.06	209.90
26	18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve,with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm 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			
a	18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 100A	each	2.00	13559.90
25		Extra cost for carriage of Material			
a		Local Sand	Cum	3.76	310.47
b		Sone Sand (45 km from Koelwar)	Cum	4.62	1132.90
c		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	4.49	2464.45
d		Bricks (7P+ 1K)	%o	0.88	840.43
e		Difference of Cost of Bricks	%o	0.88	1420.51
f		Difference of Cost of Cement	tonn	2.73	234.62
		<b>CIVIL NON-SCHEDULE</b>			
26	NSI	Supplying Labour and Tools for cleaning of filled up and choked manhole chamber and different size sewer line including disposal silt with all necessary arrangement .	cum	70.00	.....



**Quoted Rates:for schedule item**

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í í ..
- 2- Full postal address :-
- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

Superintending Engineer  
I.G.I.M.S., Patna

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

**BILL OF QUANTITY-09**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair, Painting and Other Miscellaneous Work in Different Location of Hospital Area at IGIMS</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 3,16,609/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 6,300/-</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 750/-</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>30 Days</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	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	65.00	237.20
2	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.	500.00	81.10
3	13.80.	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	1,666.00	9.70
4	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	1,666.00	33.20
5	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	1,666.00	38.70
6	13.81.4	Applying priming coat:With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel work (second coat)	Sqm.	250.00	19.30
7	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.	800.00	54.30
8	9.46	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete			
a	9.46.2	20 mm dia metre	meter	35.00	397.70
9	17.11	Providing and fixing white vitreous china laboratory sink with C.I brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete,			

		including painting of fittings and brackets, cutting and making good the wall wherever required :			
a	17.11.2	Size 600x450x200 mm each	each	1.00	5,085.90
10	9.115	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer-incharge	each	6.00	355.00
11	14.5	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:			
a	14.5.2	Float glass panes of thickness 5.5 mm sqm 1026.90	sqm	4.00	1,026.90
12	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	3.00	205.30
b	18.9.4	32 mm nominal outer dia Pipes	mtr.	6.60	359.10
13	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	2.00	185.60
b	18.46.4	32 mm nominal bore	each	3.00	306.00
14	18.50	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	2.00	715.10
15	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete			
a	17.28.1.1	Semi rigid pipe 32 mm dia	each	20.00	91.00
16	9.101	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.			
a	9.101.2	Twin rubber stopper	each	48.00	60.80
17	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	ltr.	2,000.00	9.70
18	18.62	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball			
19	18.62.3	25 mm nominal bore, 152mm long, weighing not less than 440gms	each	1.00	459.40
20	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.			
21	17.70.2	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	each	2.00	325.10
22	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete			
a	18.18.3	25 mm nominal bore	each	1.00	399.20
23	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 162.70	metre	22.30	162.70
24	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	12.79.3	Single tee with door			
i	12.79.3.1	75x75x75 mm	each	4.00	141.60
b	12.79.5	Band 87.50			
<u>i</u>	<u>12.79.5.1</u>	<u>75 mm bend</u>	<u>each</u>	<u>3.00</u>	<u>91.80</u>
<u>c</u>	<u>12.79.4</u>	<u>Single tee without door</u>	=	=	=
<u>i</u>	<u>12.79.4.1</u>	<u>75x75x75mm</u>	<u>each</u>	<u>5.00</u>	<u>124.20</u>
		Non Schedule Items			
25	NSI Vide Cat. Page-40	Providing and Fixing Two way angle Cock with flange all Complete. PRAYAG Model no-PIS-11 H or equivalent.	Each	4.00	í í í í í ..
26	NSI Vide Cat. Page-11	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	5.00	í í í í í ..

**Quoted Rates:for schedule item**

- a- í í í í í í % above  
b- í í í í í í % below  
c- í í í í at estimated cost.

NOTE:-

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í ..  
2- Full postal address :-  
3- Earnest money deposited :-  
4- Registration No. :-  
5- Time of completion :-

Signature of Contractor

Superintending Engineer  
I.G.I.M.S., Patna

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

**BILL OF QUANTITY-10**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Brick Seating Bench New Vaccination Centre and OPD Block at IGIMS, Patna-14.</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 2,82,951/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>Rs. 5,700/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>Rs. 750/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>15 Days</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 withing 50 metres lead:	Cum	2.00	1,411.20
2	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
3	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	19.34	287.30
4	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of ng,shuttering,finishing and reinforcement-All work puto 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	3.50	4,688.30
5	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	303.85	94.50
6	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	10.00	404.70
7	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	1.00	3,998.10
8	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.	46.80	599.30
9	6.19B	Extra for half Brick masonry in superstructure above pinth level upto floor V level.	sqm.	46.80	89.70

10	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.	16.00	176.40
11	13.26	Neat cement punning	Sqm.	16.00	40.50
12	7.38	Stone tile work for wall lining upto 10.0m height with special adhesive like araldite or equivalent over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade			
a	7.38.1.1	8 mm thick (mirror polished and machine cut edge) Granite black stone	sqm.	80.03	1,900.90
13		Extra cost for carriage of Material			
a		Local Sand	Cum	25.00	310.47
b		Sone Sand (45 km from Koelwar)	Cum	6.00	1,132.90
c		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	4.00	2,464.45
d		Bricks (7P+ 1K)	%o	3.15	840.43
e		Difference of Cost of Bricks	%o	3.15	1,420.51
f		Difference of Cost of Cement	tonn	5.10	234.62

**Quoted Rates:for schedule item**

- a- í í í í í í % above  
b- í í í í í í % below  
c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í í í ..  
2- Full postal address :-  
3- Earnest money deposited :-  
4- Registration No. :-  
5- Time of completion :-

Signature of Contractor

Superintending Engineer  
I.G.I.M.S., Patna

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

**BILL OF QUANTITY-11**

**Short Notice Inviting Tender for Civil Work ,**

**NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>		<b>Repair and painting work of old D-3/6, New E-3/4 and New D-4/1 at IGIMS, Patna</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>		<b>Rs. 2,73,505/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>		<b>Rs. 5,500/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>		<b>Rs. 750/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>		<b>15 Days</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>
		CIVIL SCHEDULE			
1	15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.		0.00	
a	15.23.1	For thickness of tiles 10 mm to 25 mm	sqm	38.88	30.70
2	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	5.06	3998.10
3	9.82	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	60.00	108.10
4	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.	26.91	283.30
5	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	3.36	287.30
6	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	30.00	237.20
7	13.80.	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	249.48	9.70

8	13.77.2	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade. New work (two or more coats) over and including priming coat with cement primer	sqm	249.48	102.30
9	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface: Distemper primer	Sqm.	249.48	38.70
10	13.80.A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm.	174.24	105.40
11	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	25.00	35.40
12	21.3	Providing and fixing glazing in aluminium 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 aluminium snap beading shall be paid in basic item.)			
a	21.3.2	Float glass panes. 5.5 mm thick glass pane.	sqm	8.24	1115.10
13	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	Sqm.	30.16	84.50
		WATER SUPPLY & SANITATION			
14	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	30.00	91.00
15	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	10.00	162.70
b	12.78.2	110 mm diameter	metre	10.00	257.50
16	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	12.79.1	Coupler			
I	12.79.1.2	110 mm	each	3.00	120.00
b	12.79.3	Single tee with door			
I	12.79.3.2	110 mm	each	2.00	193.40
c	12.79.5	Band 87.5°			
I	12.79.5.1	75mm bend	each	2.00	91.80
II	12.79.5.2	110mm bend	each	2.00	132.00
d	12.79.6	Shoe plain			
I	12.79.6.2	110 mm shoe	each	3.00	115.95
17	18.65	Providing and fixing PTMT soap dish holder having length of 138mm, breadth 102 mm height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	10.00	96.80
18	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	20.00	45.20
19	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	6.00	1068.50
20	22.22A	Providing and applying fibre reinforced elastomeric liquid water proofing membrane with resilient acrylic polymers having Sun Reflectivity Index (SRI) of 105 on top of concrete roof in three coats @10.76 litre/ 10 sqm. One coat of self-priming of elastomeric waterproofing liquid (dilution with water in the ratio of 3:1) and two coats of undiluted elastomeric waterproofing liquid (dry film thickness of complete application/system not less than 500 microns). The operation shall be carried out after scrapping and properly cleaning the surface to remove loose particles with wire brushes, complete in all respect as per the direction of Engineer-in-Charge.	sqm	30.06	415.90
21	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	36.00	795.00
22	21.1.1.1	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.	46.00	386.10
23	21.30	Providing and fixing glazing in aluminium 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 aluminium snap beading shall be paid in basic item.)			
a	21.3.2	Float glass panes.5.5 mm thick glass pane.	sqm	8.00	1115.10
24	11.26	Kota stone slab flooring over 20 mm (average ) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete . Base with 1:1:1 (1lime : 1 surkhi: 1 coarse sand ) / 1:4 (1 cement: 4 coarse sand )			
a	11.26.1	20 to 25 mm thick -	sqm	26.91	1252.70
25	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	sqm	2.70	625.10

		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.			
26	10.16.1	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:Hot finished welded type tubes	kg	70.99	123.90
27	13.13	20 mm cement plaster of mix ;			
28	13.13.2	1: 4(1 cement: 4 coarse sand)	sqm	30.06	209.90
29	18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve,with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominalsize ) , i/c necessary excavation, foundation concrete 1:5:10(1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsize) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design			
a	18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 100A	each	2.00	13559.90
30		Extra cost for carriage of Material			
a		Local Sand	Cum	3.76	310.47
b		Sone Sand (45 km from Koelwar)	Cum	4.62	1132.90
c		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	4.49	2464.45
d		Bricks (7P+ 1K)	%o	0.88	840.43
e		Difference of Cost of Bricks	%o	0.88	1420.51
f		Difference of Cost of Cement	tonn	2.73	234.62
		<b>CIVIL NON-SCHEDULE</b>			
31	NSI	Supplying Labour and Tools for cleaning of filled up and choked manhole chamber and different size sewer line including disposal silt with all necessary arrangement .	cum	70.00	í í í .

**Quoted Rates:for schedule item**

- a- í í í í í í % above
- b- í í í í í í % below
- c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í ..
- 2- Full postal address :-

- 3- Earnest money deposited :-
- 4- Registration No. :-
- 5- Time of completion :-

Signature of Contractor

Superintending Engineer  
I.G.I.M.S., Patna

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

**BILL OF QUANTITY-12**

**Short Notice Inviting Tender for Civil Work ,  
NIT No. :- 08/IGIMS/Engg.Cell /CW/2023-24**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Provision of additional water supply line for New Medical College Building wall at IGIMS, Patna-14</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 1,57,290/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 3,100/-</b>
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 500/-</b>
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>15 Days</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	2.8.1	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of Soil	cum	20.00	360.70
2	2.27	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead			
a	2.27.1	Ali kinds of soil.	Cum	20.00	49.40
3	18.71	Providing and laying Double Flanged (screwed / welded) Centrifugally (Spun) Cast Iron, Class B (IS : 1536) :			
a	18.71.1	100 mm dia C.I. Double Flanged Pipe	meter	5.00	1,797.90
4	18.67	Providing and laying S&S C.I. Standard specials suitable for mechanical jointing as per IS : 13382 :			
a	18.67.1	Up to 300 mm dia	quintal	0.50	11,867.90
5	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.			
a	18.9.6	50 mm nominal outer dia Pipes	meter	125.00	730.30
b	18.9.4	32 mm nominal outer dia Pipes	meter	24.00	359.10
6	14	Providing, installation, testing and commissioning of non-return valve of following sizes conforming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required :			

a	14.2	50 mm nominal bore	each	2.00	5,390.00
7	18.47	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	18.47.6	50 mm nominal bore	each	2.00	857.00
b	18.47.4	32 mm nominal bore	each	8.00	519.70
8	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	18.17.4	50 mm nominal bore	each	2.00	878.20
9	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc			
a	18.12.6	50 mm dia nominal bore	meter	4.00	572.60
10	18.34	Constructing masonry Chamber 90x90x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve,with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep ( inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominalsized ) , i/c necessary excavation, foundation concrete 1:5:10(1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominalsized) and inside plastering with cement mortar 1:3 (1 cement : 3coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :			
a	18.34.1	With common burnt clay F.P.S.(non modular) bricks of class designation 100A	each	1.00	13,559.90

**Quoted Rates:for schedule item**

- a- í í í í í í % above  
b- í í í í í í % below  
c- í í í í at estimated cost.

**NOTE:-**

Contractors are requested to quote their rates % above / % below / at estimated rate for Schedule Items and Item wise rate for non schedule item as mention in above.

- 1- Issued to :í í í í í í í í í í í í í í ..  
2- Full postal address :-  
3- Earnest money deposited :-  
4- Registration No. :-  
5- Time of completion :-

Signature of Contractor

Superintending Engineer  
I.G.I.M.S., Patna