

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-01

SHORT URGENT TENDER NOTICE NO.- Engg. /12/ CW/Tender/2021-22

Sl. No.	Name of the Work :-	Construction of G.I sheet shade for storage of Organic/General waste near Herbal Garden at IGIMS,patna-14		
1	Estimated Cost (In Rs.) :-	Rs. 13,78,300/-		
2	Earnest Money (In Rs.) :-	Rs. 27,600/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2,500/-		
4	Time of completion :- (In Days)	30 Days		
5	Date, time & place for submission of Complete tender-	As Per NIT		
6	Date and time for opening of tender- (Technical Bid)-	As Per NIT		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT		
Sl. No.	Item Description	Unit	Qty.	Rate
	CIVIL SCHEDULE			
1	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	12.89	360.70
2	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	cum	109.91	281.40
3	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	209.60	285.20
4	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
a	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	32.25	3,832.50
5	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of tring,shuttering,finishing and reinforcement-All work puto plinth level			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)c	cum	24.71	4,630.90
6	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			

a	Thermo-Mechanically Treated bars TMTC-500-8mm dia	kg	550.00	70.60
b	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	320.00	69.20
7	Centring and shuttering including strutting,propping etc. and removal of form for.		-	
a	Foundations, footings, bases of columns etc. for mass concrete.	sqm	71.50	203.00
b	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	52.75	362.90
8	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :			
a	Cement mortar 1:6 (1 cement: 6 coarse sand)	Cum	13.28	4,853.80
9	Extra tor Brick work in superstructure above plinth level upto floor V	Cum	3.38	791.80
10	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand)	Sqm.	21.00	168.50
11	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	56.85	146.00
12	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coar of approved steel primer, welded and bolted including special shaped washers etc. complete:Hot finished welded type tubes	kg	2,457.82	117.70
13	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to steel windows by welding	kg	1,387.47	116.90
14	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.			
a	Made of G.I. wire of dia 4 mm	sqm	75.00	642.80
15	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	127.60	586.10
16	Painting with synthetic enamel paint of approved brand and	Sqm.	100.00	80.30

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-02

SHORT URGENT TENDER NOTICE NO.- Engg. /12/ CW/Tender/2021-22

Sl. No.	Name of the Work :-	Modernization work of RIO library for Teleophthalmology and lecture theater and making showcase and Office table in Principal chamber in new medical college building at IGIMS,Patna-14		
1	Estimated Cost (In Rs.) :-	Rs. 6,14,800/-		
2	Earnest Money (In Rs.) :-	Rs. 12,500/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1,250/-		
4	Time of completion :- (In Days)	15 Days		
5	Date, time & place for submission of Complete tender-	As Per NIT		
6	Date and time for opening of tender- (Technical Bid)-	As Per NIT		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT		
Sl. No.	Item Description	Unit	Qty.	Rate
	CIVIL SCHEDULE			
1	Providing and fixing 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	With float glass panes of 8 mm thickness	sqm	14.04	1,276.20
2	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	2.00	806.90
3	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	1.5 mm thick	sqm	210.85	759.70
4	Providing and fixing bright finished brass handles with screws etc. complete:			
a	100mm	each	20.00	201.90
5	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	50 mm	each	20.00	211.70
6	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	15.00	14.80
7	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with	each	20.00	56.20
8	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete			
a	Overall width 50 mm	Rmt.	35.00	170.40
9	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:			
a	100x10 mm	each	20.00	35.10
10	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete .			
a	Triple strip vertical type	each	20.00	39.10
11	Providing and fixing factory made single extruded WPC (WoodPolymer Composite) solid plain white color board for backing of cup boards and bathroom/kitchen cabinets etc. of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/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	7 mm thick	sqm	20.00	1,529.50
12	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL antitermites' treatment(including the cost of chemical emulsion			
a	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling and plugging 12 mm diameter holes with cement mortar 1:2 (1 cement: 2 coarse sand) to match the existing floor.			
(i)	With Chlorpyrifos EC 20% with 1% concentration	sqm	81.00	233.10
13	Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS :14862 with suitable fibre cement screw 8 mm thick. (everest Havy duty or its	sqm	27.89	817.10

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-03

SHORT URGENT TENDER NOTICE NO.- Engg. /12/ CW/Tender/2021-22

Sl. No.	Name of the Work :-	Repair, painting, Aluminum and water supply fitting at Different Location in Hospital area at IGIMS,Patna-14		
1	Estimated Cost (In Rs.) :-	Rs. 4,52,877/-		
2	Earnest Money (In Rs.) :-	Rs. 9,100/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 750/-		
4	Time of completion :- (In Days)	15 Days		
5	Date, time & place for submission of Complete tender-	As Per NIT		
6	Date and time for opening of tender- (Technical Bid)-	As Per NIT		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT		
Sl. No.	Item Description	Unit	Qty.	Rate
	CIVIL SCHEDULE			
1	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 aluminium snap beading shall be paid in basic item.)			
a	Float glass panes. 5.5 mm thick glass pane.	sqm	2.50	1,110.20
2	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	54.00	1,609.32
3	Providing and fixing vertical blind with rolling track etc all completed	Sqft.	209.28	235.73
4	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 fasteners 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	kg	223.23	382.40

	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)			
5	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			
	Kitchen sink without drain board			
a	470x420 mm bowl depth 178 mm	each	2.00	2,169.50
6	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	5.00	208.30
7	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	300x10 mm	Each	5.00	111.00
b	150x10 mm	Each	5.00	71.20
8	Providing and fixing aluminium handles anodised (anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with necessary screws etc. complete 100mm	Each	6.00	56.80
10	Supply and fixing IS : 3564 bright finished brass hydraulic door closer (best make of approved quality) with necessary accessories and screw etc. Complete.	Each	10.00	958.80
11	Providing and fixing PTMT pillar cock of approved quality and colour .20 mm nominal bore, 89 mm long, weighing not less than 88 gms	each	10.00	151.30
12	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	16.00	618.80
13	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore	each	5.00	606.30
14	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.			
a	Semi rigid pipe 32 mm dia	each	50.00	87.70
15	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	978.90
16	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	12.00	372.10
17	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	10 litre capacity - White	each	12.00	897.30

18	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	Sqm.	100.00	51.50
19	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 Sqm and under including cutting the patch in proper ing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			
a	With cement mortar 1:4	Sqm	50.00	225.60
20	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	952.20	9.10
21	Distemping with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	952.20	31.60
22	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	952.20	36.80
23	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.	50.00	77.70
24	Providing and fixing fitting aluminium glazed sliding window with 4 mm thick glazing of frost glass fitted on aluminium rail all complete as per specification and direction of E/S.	sqm	2.25	2,959.00
25	Providing and fixing uplasticised PVC connection pipe with brass ions45 cm length			
a	20 mm nominal bore each	each	30.00	100.40
26	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.			
27	25 mm nominal bore, 152mm long, weighing not less than 440 gms	each	12.00	474.30
28	Providing and laying vitrified floor tiles in different sizes {thickness to be specified by the manufactruer) with water absorption's less than 0.08 % and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joint with white cement and matching pigments etc., complete.Size of Tile 60x60 cm	sqm	21.00	1,731.40
29	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles	sqm	21.00	-459.40
30	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	21.00	424.20
31	Providing and fixing on wall face unplastidsed-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	110 mm diameter	rmt	21.34	252.60

b	75 mm diameter	rmt	36.59	158.60
32	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	Single tee with door			
i	110 x110 x110 mm dia PVC	each	4.00	191.20
ii	75x75x75 mm dia PVC	each	4.00	139.80
b	Single tee without door			
i	110 x110 x110 mm dia PVC	each	5.00	188.60
c	Band 87.5			
i	110 mm dia PVC	each	4.00	129.80
ii	75 mm dia PVC	each	4.00	89.90
a	Coupler			
i	110 mm	each	4.00	117.80
33	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.			
b	20 mm nominal outer dia Pipes	m	5.00	336.10
34	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)			
a	20 mm dia nominal bore.	Each	2.00	170.80
35	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.	20.00	521.00

