

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-01

SHORT URGENT TENDER NOTICE NO. Engg./07/CW/Tender/2021-22

Sl. No.	Name of the Work :-	Miscellaneous work in OPD Block, Polyclinic Building, SCI Building, New Medical College and Laying of R.C.C Hume Pipe Near Sub-Station etc. at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	Rs. 11,57,000/-
2	Earnest Money (In Rs.) :-	Rs. 23,150/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 25,00/-
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
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	177.50	360.70
2	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :			
a	300 mm dia. R.C.C. pipe	mtr.	68.00	757.00
3	Constructing brick masonry manhole in cement mortar 1:4 (1cement : 4 coarse sand) with 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 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :			
a	Inside size 90x80 cm and 45 cm deep including C.I. cover with	each	6.00	7,564.90

	frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5			
4	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg),R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :			
a	Inside dimensions 455x610 mm and 45 cm deep for single pipe line : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	3.00	4,228.40
b	Inside dimensions 500x700 mm and 45 cm deep for pipe line with one or two inlets : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2.00	4,892.60
5	Extra for depth beyond 45 cm of brick masonry chamber			
a	For 500x700 mm size With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	mtr.	1.10	4,304.80
6	Extra for depth for manholes :			
a	Size 90x80 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	mtr.	3.30	5,661.00
7	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	25 mm nominal outer dia Pipes	mtr.	40.00	265.30
b	40 mm nominal outer dia Pipes	mtr.	19.00	470.70
c	50 mm nominal outer dia Pipes	mtr.	69.00	725.60
d	62.50 mm nominal inner dia Pipes	mtr.	10.00	1,470.10
10	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	50 mm nominal bore	Each	2.00	869.20
11	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	40mm dia nominal bore.	Each	2.00	362.10
b	50 mm dia nominal bore.	Each	15.00	474.90

c	25 mm nominal bore	Each	20.00	249.70
12	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.			
a	40 mm nominal bore, 152mm long, weighing not less than 440 gms	Each	7.00	728.50
13	Providing and fixing on wall face unplastidsed-VC(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	45.00	252.60
b	75 mm diameter	rmt	167.20	158.60
14	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	10.00	191.20
ii	75x75x75 mm dia PVC	each	8.00	139.80
b	Single tee without door			
i	110 x110 x110 mm dia PVC	each	10.00	188.60
c	Band 87.5			
i	110 mm dia PVC	each	10.00	129.80
ii	75 mm dia PVC	each	5.00	89.90
a	Coupler			
i	110 mm	each	6.00	117.80
15	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after serton of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	each	376.00	204.30
16	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls bcomplete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.			
a	With cement mortar 1:4 (1cement: 4 coarse sand) each	sqm.	571.00	225.60
18	Providing and fixing double scaffolding system (cup lock type) on the exterior side of building/structure, upto 25 metre height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal &vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube challis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/	sqm.	318.87	167.40

	or applying chemical and removing it thereafter. The folding system shall be stiffened with bracings,runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per rections and approval of Engineer-in-charge.			
19	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 allplete.	kg	415.00	116.90
20	Extra cost for carriage of Material			
a	Sone Sand (45 km from Koelwar)	Cum	11.55	877.70
b	Difference of Cost of Cement	tonn	3.63	236.95
	CIVIL NON SCHEDULE ITEM			
21	Providing and fixing on wall face unplasticised-PVC rain water pipes leaving 10 mm gap for thermal expansion.			
a	150 mm diameter	mt.	455.20
22	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes. leaving 10 mm gap for thermal expansion.			
a	Band 87.5			
(i)	150 mm dia PVC	each	111.00
23	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: 4corsa sand and making good the wall etc complete			
a	150 mm	each	422.00

Quoted Rates:for schedule item

- a- % above
- b- % below
- c- 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 : ..
- 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-02

SHORT URGENT TENDER NOTICE NO. Engg./07/CW/Tender /2021-22

Sl. No.	Name of the Work :-	Fencing of Footpath in front of SCI Building and Water Proofing work of Mortuary at IGIMS,Patna-14		
1	Estimated Cost (In Rs.) :-	Rs. 10,42,900/-		
2	Earnest Money (In Rs.) :-	Rs. 20,900/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2,500/-		
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
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			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	8.63	4,630.90
2	Reinforcement for R.C.C. work including straightening,C10cutting, bending, placing in position and binding all complete.			
a	Thermo-Mechanically Treated bars TMTC-500-8mm dia	kg	381.57	70.60
b	Thermo-Mechanically Treated bars TMTC-500-10mm dia	kg	502.20	69.20
3	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	Foundations, footings, bases of columns etc. for mass concrete.	sqm	34.50	203.00
4	12 mm Cement plaster in course sand of mix:1:4(1 cement :4 coarse sand)	Sqm.	57.50	146.00
5	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.	kg	3,848.22	116.90
6	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	138.00	642.80
7	Providing and laying in suit five course water proofing treatment with glass fibre tissue reinforced bitumen over roof consisting of first coat of bitumen primer @ 0.40 kg. per sqm, 2nd & 4th courses of bonding material@ 1.60 kg. per sqm which shall consist of blown type bitumen of grade 85/25 conforming to IS: 702, third layer of glass fibrestissue course as specified, fifth, the top most layer of stone grit 6 mm and down size or pea-sized gravel sprad @ 6 dmJ per sqm including preparation of surface excluding grading for slope etc. complete.	sqm	815.63	407.90
8	Cement plaster in course sand 20 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	81.50	200.80
9	Extra cost for carriage of Material			
a	Sone Sand (45 km from Koelwar)	Cum	21.20	877.70
b	Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	9.35	1,865.91
c	Difference of Cost of Cement	tonn	9.25	236.95

Quoted Rates:for schedule item

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

NOTE:-

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Signature of Contractor

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

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-03

SHORT URGENT TENDER NOTICE NO. Engg./07/CW/Tender/2021-22

Sl. No.	Name of the Work :-	Provision of Water tank and PHED work in A-type Quarter at IGIMS, Patna		
1	Estimated Cost (In Rs.) :-	Rs. 8,24,300/-		
2	Earnest Money (In Rs.) :-	Rs. 16,500/-		
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
1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls bcomplete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.			
a	With cement mortar 1:4 (1cement: 4 coarse sand) each	sqm.	250.00	225.60
2	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 pipewith clamps at 1.00 m spacing. This includes jointing of pipes &fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
a	20 mm nominal outer dia Pipes	metre	240.00	224.10
b	32 mm nominal outer dia Pipes	metre	70.00	386.10
c	40 mm nominal outer dia Pipes	metre	70.00	527.40
d	50 mm nominal outer dia Pipes	metre	210.00	782.30
3	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 nominal	each	48.00	170.80

b	32 mm nominal	each	16.00	293.90
c	40 mm nominal	each	16.00	362.10
d	50 mm nominal	each	16.00	474.90
4	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	20 mm nominal bore.	each	16.00	463.70
b	50 mm nominal bore.		16.00	869.20
5	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.	12,000.00	8.80
6	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.			
a	1:2:4 (1 Cement: 2 coarse sand : 4 graded stone aggregate 40 mm nominal size)	cum	2.40	3,832.50
7	Cutting holes up to 30x30 cm in walls including making good the same:			
a	With common burnt clay F.P.S. (non modular) bricks	each	42.00	193.70
8	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	cum	39.00	281.40
9	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.	405.83	657.20
10	Carrage of the following material			
a	Local Sand / Earth soil (3 Km)	Cum	40.00	260.70
b	Sone Sand (45 km from Koelwar)	Cum	24.90	877.70
c	Stone Aggregate ,Gaya manpur	Cum	2.15	1,865.91
d	Difference of Cost of Cement	tonn	5.74	236.95

Quoted Rates:for schedule item

- a- 0 0 0 0 0 0 % above
- b- 0 0 0 0 0 0 % below
- c- 0 0 0 0 at estimated cost.

NOTE:-

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Signature of Contractor

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

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-04

SHORT URGENT TENDER NOTICE NO. Engg./07/CW/Tender/2021-22

Sl. No.	Name of the Work :-	Construction of Bio-Waste Storage House and Aluminium Partition Work in Dhanvantri at IGIMS Patna-14
1	Estimated Cost (In Rs.) :-	Rs. 7,19,900/-
2	Earnest Money (In Rs.) :-	Rs. 14,500/-
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
1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.			
a	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	1.00	3,832.50
2	Distemping 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	32.40	97.20
3	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.	32.40	77.70
4	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	Sqm.	55.00	80.30
5	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:			
a	Hot finished welded type tubes	kg	2,054.73	117.70
6	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	Sqm.	90.40	586.10

	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.			
7	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm (+0.05 %) total coated thickness, Zinc coating 120grams 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	Flashings/ Aprons.(Upto 600 mm)	meter	6.00	376.20
8	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. (everestHavy duty or its equavalant.)	sqm	188.12	817.10
8	Providing and fixing 1st quality ceramic glazed wall tiles conforming toIS : 15622 (Thickness to be specified by the manufacture) of approvedmake in all colours, shades except burgundy , bottle green , black ofany size as approved by Engineer-in-charge in skirting , risers of stepsand dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqmincluding pointing in white cement mixed with pigment of matchingshade complete.	sqm.	32.40	797.50
9	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such as white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	Sqm.	14.58	712.20
10	Providing and fixing anodised aluminium work for doors,windows, ventilator and partitions with extruded built up standard tubular and other sections of approved make conforming to IS : 733 and IS : 1285,anodised trasparent or dyed to required shade according to IS : 1868, (Minimum anodic coating of grade AC 15), fixed with .rawl plugs and screws or with fixing clips , or 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 fre straight, mitred and jointed mechanically wherever required including cleat angle,Aluminium snap beading tor glazing/paneling, C.P. rass/stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (GlazingFor fixed portion and panelling to be paid for separately	kg	386.64	382.40

11	Providing and fixing 4mm thick ACP of approved brand and manufacture in panelling fixed in aluminium doors, window shutters and partition frames, with stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge	sqm	42.26	1,198.89
12	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick:			
a	Float glass panes. 5.5 mm thick glass pane.	sqm	11.06	1,505.60
13	Extra cost for carriage of Material			
a	Sone Sand (45 km from Koelwar)	Cum	1.20	877.70
b	Stone Aggregate, (110 Km From Gaya Manpur)	Cum	0.86	1,865.91
e	Difference of Cost of Cement	tonn	1.07	236.95

Quoted Rates: for schedule item

- a- 0 0 0 0 0 0 % above
b- 0 0 0 0 0 0 % below
c- 0 0 0 0 at estimated cost.

NOTE:-

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Signature of Contractor

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