

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

**BILL OF QUANTITY-01**

**SHORT URGENT TENDER NOTICE NO.- Engg. /02/ CW/Tender/2021-22**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair and Renovation of Electric Sub-Station Near DAV School at IGIMS, Patna-14.</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 12,02,100/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 24100/-</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>30 Days</b>		
<b>5</b>	<b>Date, time &amp; place for submission of Complete tender-</b>	As Per NIT		
<b>6</b>	<b>Date and time for opening of tender-(Technical Bid)-</b>	As Per NIT		
<b>7</b>	<b>Date &amp; Time for opening of Price Bid of Technically Suitable bidders.</b>	As Per NIT		
<b>Sl. No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 meters lead.			
a	Of area beyond 3 sqm	each	15.00	<b>73.10</b>
2	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead:			
a	In cement mortar	cum	3.00	<b>773.50</b>
3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50 metres lead.			
a	1:3:6 or richer mix. (Over hade water tank)	cum	2.00	<b>911.40</b>
4	Excavation in dumped stones or malba including stacking of serviveable and unserviceable material separately and disposal of unserviceable material lead upto 50 m and lift upto 1.5 m disposed material to be neatly dressed.	cum	51.30	<b>274.40</b>
5	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	33.77	<b>281.40</b>
6	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	90.00	<b>285.20</b>
7	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	10.38	<b>3,832.50</b>
8	Providing and laying factory made chamfered edge Cement Concrete paver blocks of required strength,thickness & size/shape, made by table vibratory method , to attain superior smooth finish using PU or equivalent moulds, laid in required Grey colour & pattern over 50mm thick compacted bed of coarse sand,compacting and proper embedding / laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with jamuna sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in footpath, parks,lawns, drive ways or light traffic parking etc. all complete as per manufacturer's			
a	(a) 80 mm thick c.c. paver block of M-35 grade with approved colour design and pattern.	sqm	192.00	<b>915.10</b>
9	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	cum	1.52	<b>7,831.10</b>
10	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 (1 lime : 1 surkhi: 1 coarse sand ) / 1:4 (1 cement: 4 coarse sand )			
a	20 to 25 mm thick -	sqm	67.00	<b>1,153.80</b>
11	Reinforced cement concrete work in wall (any thickness), including attached plasters, utresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upt floor five level excluding cost of centring, shuttering, finishin and reinforcement			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20mm nominal size)	Cum	14.80	<b>5,555.20</b>
12	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all omplete.		-	
a	Thermo-Mechanically Treated bars TMTC-500-8mm	kg	500.00	<b>70.60</b>

b	Thermo-Mechanically Treated bars TMTC-500-10mm	kg	745.00	<b>69.20</b>
c	Thermo-Mechanically Treated bars TMTC-500-12mm	kg	95.00	<b>67.60</b>
13	Centring and shuttering including strutting,propping etc. and removal of form for.		-	
a	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	82.40	<b>362.90</b>
14	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :4 (1 cement: 4 coarse sand ).	Cum	8.91	<b>5,048.20</b>
15	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand )	Sqm.	74.85	<b>168.50</b>
16	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	100.00	<b>225.60</b>
17	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	455.50	<b>9.10</b>
18	Distempering with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	455.50	<b>31.60</b>
19	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	455.50	<b>36.80</b>
20	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.	100.00	<b>77.70</b>
21	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade			
a	New work (Two or more coat applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior	sqm	342.85	<b>123.70</b>
22	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on old work	Sqm	96.57	<b>51.50</b>
23	Painting With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works	sqm	96.57	<b>32.40</b>
24	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	Sqm.	10.58	<b>797.50</b>

	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			
25	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	4.00	<b>712.20</b>
26	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	9.00	<b>2,959.00</b>
27	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats, square or round bars etc. All complete.	kg	1,155.68	<b>116.90</b>
28	Providing and fixing factory made P.V.C. door frame of size 50x47 mmwith a wall thickness of 5 mm,made out of extruded 5 mm rigid PVCfoam sheet, mitred at corners and joined with 2 Nos. of 150 mm longbrackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge,EPDM rubber gasket weather seal to be provided through out theframe. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specification and direction of Engineer-in-Charge	mtr.	5.00	<b>366.10</b>
29	Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x19 mm for styles and 15x15 mm for top & bottom rails. M.S.frame shall have a coat of steel primers of approved make and manufacture . M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick,95 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading on			

	inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification &			
a	30 mm thick plain PVC door	sqm.	1.58	<b>2,280.60</b>
30	Providing and fixing flush door shutter of century board or greenply or kitply have non decorative type core of block board 32 mm thick including anodised aluminium butt highest with necessary screws aluminium handle, l-drope, twoer bold etc as per specification of E/S.	Sqm.	6.30	<b>2,750.92</b>
31	Supply and fixing IS : 3564 bright finished brass hydraulic door closer (best make of approved quality) with necessary accessories and screw etc. Complete.	Each	2.00	<b>958.80</b>
32	Supply and fixing bright finished brass hanging type floor door stopper with necessary screws etc complete.	Each	10.00	<b>105.30</b>
33	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	10.00	<b>208.30</b>
34	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	10.00	<b>111.00</b>
b	150x10 mm	Each	10.00	<b>71.20</b>
35	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	15.00	<b>56.80</b>
36	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm.	32.40	<b>586.10</b>

37	Supplying and fixing-rolling shutters of approved make.made of required size of M.S.laths interlocked together through their intire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arragements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.			
a	80x1.25mmM.S. Laths with 1.25mm thick top cover.	sqm.	11.88	<b>2,650.20</b>
38	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	metre	25.00	<b>265.30</b>
b	20 mm nominal outer dia	metre	15.00	<b>197.40</b>
b	32 mm nominal outer dia	metre	40.00	<b>352.30</b>
39	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	5.00	<b>170.80</b>
b	25 mm nominal bore	Each	5.00	<b>249.70</b>
b	32 mm nominal bore	Each	5.00	<b>293.90</b>
40	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25 mm dia nominal bore.	Each	2.00	<b>497.20</b>
	32 mm nominal bore.	Each	2.00	<b>581.30</b>
41	Providing and fixing PTMT grating of approved quality and colour.Circular type125 mm nominal dia with 25 mm waste hole.	each	3.00	<b>51.30</b>
42	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	3.00	<b>419.00</b>
43	Providing and fixing C.P. brass stop cock (concealed) of	each	3.00	<b>606.30</b>

	standard design and of approved make conforming to IS:8931.			
44	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	1.00	<b>130.50</b>
45	Providing and fixing on wall face unplasticised-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	110 mm diameter	rmt	65.00	<b>252.60</b>
46	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	110 mm	each	32.00	<b>174.06</b>
47	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	<b>191.20</b>
b	Single tee without door			
i	110 x110 x110 mm dia PVC	each	4.00	<b>188.60</b>
c	Band 87.5			
ii	110 mm dia PVC	each	20.00	<b>129.80</b>
48	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe			
a	32 mm dia	each	1.00	<b>87.70</b>
49	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.			
a	15 mm nominal bore with 45 cm length	each	1.00	<b>112.40</b>
50	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	each	1.00	<b>4,090.60</b>

	floors wherever required :			
51	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	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	1.00	<b>2,230.60</b>
52	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 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 12 mm 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 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) :			
53	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2.00	<b>7,564.90</b>
54	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	150 mm dia. R.C.C. pipe metre	Rmt.	40.00	<b>390.80</b>
55	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	<b>8.80</b>
56	Extra cost for carriage of Material			
a	Local Sand / Earth soil (3 Km)	Cum	40.00	<b>260.70</b>
b	Sone Sand (45 km from Koelwar)	Cum	29.85	<b>877.70</b>
c	Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	22.00	<b>1,865.91</b>
d	Bricks (7P+ 1K)	%o	7.24	<b>682.47</b>
e	Difference of Cost of Bricks	%o	7.24	<b>1,463.49</b>
f	Difference of Cost of Cement	tonn	12.05	<b>236.95</b>



**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. /02/ CW/Tender/2021-22**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Construction of Morgue at IGIMS Patna</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 11,19,580/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 22500/-</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>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
<b>01</b>	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	20.74	360.90
<b>2</b>	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			
<b>a</b>	Ali kinds of soil.	cum	16.32	46.30
<b>3</b>	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	41.00	281.40
<b>4</b>	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/l,	sqm	68.00	285.20
<b>5</b>	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
<b>a</b>	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20,mm nominal size)	cum	5.00	3,832.50

6	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement-All work upto plinth level			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	9.60	4,630.90
7	Reinforced cement concrete work in wall (any thickness), including attached plasters, uttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc. upt floor five level excluding cost of centring, shuttering, finishin and reinforcement			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20mm nominal size)	Cum	22.73	5,555.20
8	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all omplete.		-	
a	Thermo-Mechanically Treated bars TMTC-500-8mm	kg	889.75	70.60
b	Thermo-Mechanically Treated bars TMTC-500-10mm	kg	458.00	69.20
c	Thermo-Mechanically Treated bars TMTC-500-12mm	kg	1,093.00	67.60
9	Centring and shuttering including strutting,propping etc. and removal of form for.		-	
a	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	199.16	362.90
10	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :4 (1 cement: 4 coarse sand ).	Cum	28.91	5,048.20
11	Extra for Brick work in superstructure above plinth level upto floor V	Cum	27.00	791.80
12	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand )	Sqm.	135.00	168.50
13	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	115.64	146.00
14	6 mm cement plaster to ceiling of mix :			

a	1:3(1 cement: 3 coarse sand)	Sqm.	69.31	124.80
15	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade			
a	New work (two or more coats ) over and including priming coat with cement primer sqm 97.20	Sqm.	184.95	97.20
16	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.	319.95	77.70
17	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade			
a	New work (Two or more coat applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior	sqm	150.00	123.70
18	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on new work	Sqm	19.45	80.30
19	Painting With ready mixed zinc chromate yellow primer of approved brand and manufacture on steel galvanized iron/steel works	sqm	30.33	32.40
20	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand ) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete	Sqm.	30.00	797.50
21	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	4.00	712.20

22	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	537.13	116.90
23	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	9.81	2,959.00
24	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1mcement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	sqm	54.00	430.60
25	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	metre	25.00	265.30
b	20 mm nominal outer dia	metre	15.00	197.40
26	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	5.00	170.80
b	25 mm nominal bore	Each	5.00	249.70
27	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25 mm dia nominal bore.	Each	1.00	497.20

28	Providing and fixing PTMT grating of approved quality and colour. Circular type 125 mm nominal dia with 25 mm waste hole.	each	2.00	51.30
29	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	each	2.00	419.00
30	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	each	2.00	606.30
31	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	1.00	130.50
32	Providing and fixing on wall face unplasticised-PVC (working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	110 mm diameter	rmt	55.00	252.60
33	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 corsa sand and making good the wall etc complete			
a	110 mm	each	24.00	174.06
34	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 x 110 x 110 mm dia PVC	each	4.00	191.20
b	Single tee without door			

i	110 x110 x110 mm dia PVC	each	4.00	188.60
c	Band 87.5			
ii	110 mm dia PVC	each	18.00	129.80
35	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe			
a	32 mm dia	each	1.00	87.70
36	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.			
a	15 mm nominal bore with 45 cm length	each	1.00	112.40
37	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 :	each	1.00	4,090.60
38	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	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	1.00	2,230.60

39	Providing and laying in situ 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 fibre tissue course as specified, fifth, the top most layer of stone grit 6 mm and down size or pea-sized gravel spread @ 6 dm <sup>2</sup> per sqm including preparation of surface excluding grading for slope etc. complete.	Sqm	75.00	407.90
40	Cement plaster in course sand 20 mm cement plaster of mix: 1:4 (1 cement : 4 coarse sand)	Sqm.	75.00	200.80
41	Extra cost for carriage of Material			
a	Local Sand	Cum	42.00	260.70
b	Sone Sand (45 km from Koelwar)	Cum	31.00	877.70
c	Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	33.00	1,865.91
d	Bricks (7P+ 1K)	%o	16.40	682.47
e	Difference of Cost of Bricks	%o	16.40	1,463.49
f	Difference of Cost of Cement	tonn	21.00	236.95

**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-03**

**SHORT URGENT TENDER NOTICE NO.- Engg. /02/ CW/Tender/2021-22**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Development of footpath In front of SCI and Trauma Centre Building at IGIMS, Patna</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 7,58,980/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 15200/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 1250/-</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>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
1	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	64.00	281.40
2	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :4 (1 cement: 4 coarse sand ).	Cum	7.25	5,048.20
3	12 mm Cement plaster in course sand of mix:1:4(1 cement :4 coarse sand)	Sqm.	35.00	146.00
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	31.68	3,832.50
5	Finishing walls with water proofing cement paint of approved brand and manufacture and of required shade to give an even shade New work (three or more coats).	Sqm.	316.80	77.90
6	Applying one coat of cement primer of approved brand and manufacture on wall surface:			
a	Cement primer	Sqm.	52.80	36.70
7	Painting with synthetic enamel paint of approved brand and manufacture to give an even hade:Two or more coats on new work	Sqm.	52.80	80.30
8	Chequerred precast cement concrete tiles 22 mm thick			

	with marbie chips of size 6 mm in footpath & coutyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning tec. Complete on 20 mm thick bed of cement mortar 1:4(1 cement:4 coarse sand)			
a	Light shade using white cement	sqm	316.80	1,075.10
9	Providing and laying tactile tile (for vision impaired persons as per standards) of size 300x300x9.8mm having water absorption less than 0.5% and conforming to IS: 15622, of approved make in all colours and shades in outdoor floors such as footpath, court yard,multi modals location etc., laid on 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand) in all shapes & patterns including grouting the joints with white cement mixed with matching pigments etc. complete as per direction of Engineer-in-Charge.	sqm	59.27	1,712.10
10	Extra cost for carriage of Material		-	
a	Local Sand	Cum	64.00	260.70
b	Sone Sand (45 km from Koelwar)	Cum	25.98	877.70
c	Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	28.48	1,865.91
d	Bricks (7P+ 1K)	%o	4.00	682.47
e	Difference of Cost of Bricks	%o	4.00	1,463.49
f	Difference of Cost of Cement	tonn	15.70	236.95

**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-04**

**SHORT URGENT TENDER NOTICE NO.- Engg. /02/ CW/Tender/2021-22**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair and Painting Work of ward Block Internal Portions at IGIMS, Patna.</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 7,00,000/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 14000/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 1250/-</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>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
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	With cement mortar 1:4	Sqm	200.00	225.60
2	Removing dry or oil bound distemper by Scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	7,636.00	9.10
3	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	7,636.00	36.80
4	Distemping with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	7,636.00	31.60
5	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.	763.60	77.70
6	Extra cost for carriage of Material			
a	Sone Sand (45 km from Koelwar)	Cum	3.90	877.70
b	Difference of Cost of Cement	tonn	1.39	236.95

**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-05**

**SHORT URGENT TENDER NOTICE NO.- Engg. /02/ CW/Tender/2021-22**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair and Modernization of Water Supply System of Boys Hostel, C-Type Quarter Old Medical College and Trauma Center at IGIMS, Patna-14.</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 5,51,800/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 11100/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 1250/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>10 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>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
<b>1</b>	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			
<b>a</b>	25 mm nominal outer dia Pipes	meter	10.05	265.30
<b>b</b>	32 mm nominal outer dia Pipes	meter	24.39	352.30
<b>c</b>	50 mm nominal outer dia Pipes	meter	121.95	725.60
<b>2</b>	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work)			
<b>a</b>	20 mm dia nominal bore.	Each	2.00	170.60
<b>b</b>	25 mm nominal bore	Each	1.00	249.70
<b>c</b>	32 mm nominal bore	Each	5.00	293.90
<b>d</b>	50 mm nominal bore	Each	40.00	474.90
<b>3</b>	Providing and fixing gun metal non- return valve of approved quality (screwed end) :			

a	25 mm nominal bore			
	Horizontal	each	1.00	477.70
4	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	25 mm dia nominal bore.	Each	2.00	497.20
5	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS:1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :			
a	100 mm Dia	meter	0.60	1,298.00
b	150 mm Dia	meter	6.15	1,835.00
6	Providing, laying, testing & commissioning of 'B' class heavy duty G.I. pipe conforming to IS 1239 including welding, fittings like elbows, tees, flanges, tapers, nuts, bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :			
a	50 mm dia	meter	6.15	704.00
b	150 mm dia	meter	1.00	20,417.00
7	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	65 mm dia	set	1.00	5,995.00
8	Providing and fixing C.I. sluice valves (with cap) complete with bolts, nuts, rubber insertions etc. (the tail pieces if required will be paid separately) :			
a	100 mm diameter (Class I)	each	3.00	3,800.40
b	150 mm diameter (Class I)	each	5.00	5,605.40
9	Providing and laying D.I. Specials of Class K - 12 suitable for mechanical jointing as per IS : 9523 :			

a	Up to 600 mm dia	quintal	5.90	17,829.90
10	Providing flanged joints to double flanged C.I./ D.I. pipes and specials,including testing of joints :			
a	100 mm diameter pipe	each	15.00	206.10
b	150 mm diameter pipe	each	6.00	260.40
11	Any Other category of semi skilled worker not mentioned above	each	44.00	265.00
12	Supplying Highly skilled workers	each	45.00	392.00
13	Constructing masonry Chamber 120x120x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm 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 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :			
a	With common burnt clay F.P.S.(non modular) bricks of class designation 100A	Each	5.00	17,540.00
14	Providing and laying Double Flanged (Screwed / Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K - 9 conforming to IS : 8329 :			
a	100 mm dia Ductile Iron Double Flanged	rmt	50.00	1,505.40
b	150 mm dia Ductile Iron Double Flanged	rmt	20.00	2,258.50

**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-06**

**SHORT URGENT TENDER NOTICE NO.- Engg. /02/ CW/Tender/2021-22**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Repair, Painting and P.C.C Work and Other Miscellaneous Work in Hospital and Residential Area at IGIMS, Patna.</b>		
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 5,22,000/-</b>		
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 10500/-</b>		
<b>3</b>	<b>Cost of B.O.Q. (In Rs.) :-</b>	<b>Rs. 1250/-</b>		
<b>4</b>	<b>Time of completion :- ( In Days)</b>	<b>10 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>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
<b>1</b>	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.			
<b>a</b>	With cement mortar 1:4	Sqm	50.00	225.60
<b>2</b>	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	50.00	360.70
<b>3</b>	Supplying and filling in plinth with local sand under floors including, watering, ramming consolidating and dressing complete.	cum	62.89	281.40
<b>4</b>	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
<b>a</b>	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	8.00	3,832.50

5	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring,shuttering,finishing and reinforcement-All work upto plinth level			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	0.80	4,630.90
6	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	Foundations, footings, bases of columns etc. for mass concrete.	sqm	65.64	203.00
7	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	50.00	70.60
8	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	18.00	285.20
9	Brick work with bricks of class designation 100A in foundations and plinth Cement mortar 1:6 (1 cement: 6 coarse sand )	cum	1.00	4,849.20
10	Half brick masonry with bricks of class designation 100A in foundation sand plinth in :			
a	Cement mortar 1:4 (1 cement: 4 coarse sand)	sqm	12.00	601.10
11	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	797.50
12	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such as white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand ) including pointing the joints with white cement and matching pigment etc., complete.	Sqm.	3.00	712.20
13	12 mm cement plaster of mix 1:4(1 cement :4 coarse sand) sqm 146.00	sqm	30.00	146.00
14	Removing dry or oil bound distemper by Scrapping, sand paper and preparing the surface smooth including necessary repair scratches tec. Complete	Sqm	500.00	9.10

15	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	500.00	36.80
16	Distemping with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	500.00	31.60
17	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.	79.97	77.70
18	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	5.00	211.70
19	Providing and fixing M.S. grills of requirement pattern in frames of windows etc. with M.S. flats, square or round bars etc. All complete.	kg	110.00	116.90
20	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low 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 : White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	2.00	4,251.10
21	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.			
a	40 mm dia nominal bore	metre	51.00	518.40
22	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	3.00	2,538.80
23	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe			
a	32 mm dia	each	3.00	87.70
24	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.			
a	20 mm nominal outer dia Pipes	meter	6.00	271.10
b	40 mm nominal outer dia Pipes	meter	52.80	527.40

25	Providing and fixing on wall face unplasticised-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	110 mm diameter	rmt	23.80	252.60
26	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	110 mm	each	6.00	174.06
27	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	Coupler			
	110mm	each	7.00	117.80
b	Single tee with door			
	110 x110 x110 mm dia PVC	each	8.00	191.20
c	Single tee without door			
	110 x110 x110 mm dia PVC	each	3.00	188.60
d	Band 87.5			
	75 mm bend	each	4.00	89.90
	110 mm dia PVC	each	9.00	129.30
28	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design :			
a	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	6.00	4,892.60

29	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 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 12 mm 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 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) :			
30	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2.00	7,564.90
31	Providing and fixing PTMT angle stop cock 15 mm nominal bore,weighing not less than 85 gms	each	6.00	155.40
32	<b>Extra cost for carriage of Material</b>			
a	Local Sand / Earth soil (3 Km)	Cum	63.15	260.70
b	Sone Sand (45 km from Koelwar)	Cum	7.14	877.70
c	Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	11.00	1,865.91
d	Bricks (7P+ 1K)	%o	2.70	682.47
e	Difference of Cost of Bricks	%o	2.70	1,463.49
f	Difference of Cost of Cement	tonn	4.30	236.95
	<b>Non-Scheduled Item</b>			
33	Supplying Labour and tools for cleaning filled up and choked manhole and services etc.	cum	183.89	.....

**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-07**

**SHORT URGENT TENDER NOTICE NO.- Engg. /02/ CW/Tender/2021-22**

<b>Sl. No.</b>	<b>Name of the Work :-</b>	<b>Partition Work for CTU in CTVS ICU-B and Aluminium Partition Work in Cochlear Implant Center at IGIMS, Patna.</b>
<b>1</b>	<b>Estimated Cost (In Rs.) :-</b>	<b>Rs. 4,53,900/-</b>
<b>2</b>	<b>Earnest Money (In Rs.) :-</b>	<b>Rs. 9100/-</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>10 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>Item Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>
	<b>CIVIL SCHEDULE</b>			
1	Providing and fixing factory made uPVC white colour casement/Casement cum fixed glazed door comprising of uPVC multi-chambered frame, sash and mullion (where ever required) extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), uPVC extruded glazing beads of appropriate dimension, EPDM gasket, zinc alloy (white powder coated) 3D hinges and one handle on each side of panels along with zinc plated mild steel multi point locking having transmission gear, cylinder with keeps and one side key, G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws, etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealent over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge.			

	(Single / double glass panes and silicon sealant shall be paid separately). Note: For uPVC frame, sash and mullion extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be			
a	Casement door with 3D hinges made of (big series) frame 67 x 64 mm & sash 67 x 110 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door upto 2.00 sqm)	sqm.	20.83	9,021.80
2	Renewing glass panes, with wooden fillets wherever necessary:			
a	Float glass panes of thickness 5.5 mm	sqm.	10.39	1,185.70
3	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 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			
a	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	256.21	382.40
4	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 5.5 mm thickness	sqm	6.48	1,110.20
5	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	82.50	1,609.32
6	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
7	Supply and fixing bright finished brass hanging type floor	Each	10.00	105.30



	door stopper with necessary screws etc complete.			
8	Providing and fixing alluminium sliding door bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete: 250x 16 mm	Each	10.00	208.30
9	Providing and fixing alluminium sliding tower bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete:			
a	300x10 mm	Each	10.00	111.00
b	150x10 mm	Each	10.00	71.20
10	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	20.00	56.80

**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