

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-01

SHORT URGENT TENDER NOTICE NO.- Engg. /04/ EC/CW/Tender/2022-23

Sl. No.	Name of the Work :-	Repair, painting Work of Recovery area, Neuro OT ,Uro OT, Corridor and Doctor's Chamber at First Floor of Diagnostic Block at IGIMS patna-14
1	Estimated Cost (In Rs.) :-	Rs. 14,67,980/-
2	Earnest Money (In Rs.) :-	Rs. 29,500/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2500/-
4	Time of completion :- (In Days)	45 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.	BSR-2022	Item Description	Unit	Qty.	Rate
1	14.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5sqm and under including cutting the patch in proper shape and preparing and plastering the surface of the walls complete including disposal of rubbish to the dumping ground within 50 metres lead.			
a	14.1.2	With cement mortar 1:4(1 cement:4 coarse sand)	sqm	200.00	237.20
2	13.80.A.1	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	Sqm.	200.00	81.10
3	13.93.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work	sqm	968.66	54.30
4	13.77.3	Distemping with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	sqm	1,151.24	33.20

5	13.78.2	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm.	1,151.24	38.70
6	13.8	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repari scratches tec. Gmplete	Sqm	1,151.24	9.70
7	21.1.1.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standardtubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle,Aluminium snap beading for glazing / aneling,C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg.	150.00	386.10
8	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.			
a	21.2.2	Pre-laminated particle board with decorative lamination on both sides	sqm	32.00	826.90
9	21.3	Providing and fixing glazing in alumnum door, window,Ventilator shutter and partition etc.with EPDM rubber/neoprene gasket etc. Complete as per the architectural drawings and the direction of engineering-in-charge.(cost of alluminium snap beading shall be paid in basic item.)			
a	21.3.2	Float glass panes.5.5 mm thick glass pane.	sqm	6.00	1,115.10
10	9.127	Providing & Fixing decorative high pressure laminated sheet of plain /wood grain in gloss / matt / suede finish with high density protectivesurface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.			
a	9.127.2	1.0 mm thicky	sqm	205.00	669.00

11	9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.			
a	9.79.2	50 mm	each	10.00	222.00
12	9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. Complete			
a	9.114.2	Double strip (horizontal type)	each	10.00	34.10
13	9.80.	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with	each	20.00	56.70
14	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete			
a	9.74.4	100x10mm	each	20.00	155.30
15	17.7	Providing and fixing wash basing with C.I. brackets 15mm C.P. brass pillar taps 32mm C.P. brass waste of standard pattern, including painting of fitting and brackets, cutting and making good the walls wherever require.			
a	17.7.1	White vitreous china wash basing size 630X450 mm with a pair of 15 mm C.P. brass pillar taps.	Each	5.00	2,764.40
17	18.9	Providing and fixing chlorinated polyvinyl chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fitting this includes jointing of pipes & fitting with one step CPVC solvent cement, trenching, refilling & testing of joints complete as direction of engineer in charge. (External work)			
a	18.9.3	25 mm nominal outer dia pipes	metre	80.00	294.70
b	18.9.2	20 mm nominal outer dia pipes	metre	70.00	205.30
18	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :			
a	18.46.2	20 mm nominal bore	each	10.00	185.60
b	18.46.3	25 mm nominal bore	each	10.00	265.90

21	12.78	Providing and fixing on wall face unplasticised - PVC (working pressure 4 kg per sqm) rain water pipes conforming to IS:4985 including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.			
a	12.78.1	75 mm diameter	metre	45.00	162.70
b	12.78.2	110 mm diameter	metre	90.00	257.50
22	12.79	Providing and fixing on wall face unplasticised - PVC molded fitting/accessories for unplasticised PVC rain water pipes conforming to S: 4985 including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion.			
a	12.79.2	Coupler			
	12.79.2.2	110 mm	each	10.00	374.60
b	12.79.3	Single tee with door			
	12.79.3.2	110 mm	each	10.00	193.40
c	12.79.5	Band 87.5°			
	12.79.5.1	75mm bend	each	10.00	91.80
	12.79.5.2	110mm bend	each	10.00	132.00
16	17.28	Providing and fixing P.V.C. Waste pipe for Kitchen sink or wash basin including P.V.C. waste fitting complete.			
	17.28.1	Semi rigid pipe			
a	17.28.1.1	32 mm dia	Each	50.00	91.00
23	18.58	Providing and fixing PTMT grating of approved quality and colour.			
a	18.58.1.2	125mm nominal dia with 25 mm waste hole.	Each	10.00	45.20
19	18.52.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.	each	10.00	594.80
20	18.18	Providing and fixing ball valve (brass)of approved quality High or Low Pressure, with plastic floats complete.			
a	18.18.3	25 mm nominal bore (3 no. of floor)	Each	5.00	399.20

24	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass(of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	each	5.00	1,068.50
25	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS : 13983 with C.I. brackets and stainless steel plug 40 mm,including painting of fittings and brackets, cutting and making good the walls wherever required :			
a	17.10.2.2	Kitchen sink without drain board 610x460 mm bowl depth 200 mm each	each	8.00	2,812.90
26	17.11	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :			
a	17.11.2	Size 600x450x200 mm	each	2.00	5,085.90
27	9.1.2	Providing sal wood work in frame of doors(choukhats) and fixed in position.	cum	0.18	95,670.70
28	6.18.4A	Half brick masonry with bricks of class designation 100A in foundations and plinth in : cement mortar 1:4 (1 cement: 4 coarse sand)	sqm	5.25	599.30
29	13.11.2	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	10.50	152.90
30	9.83	Supply and fixing IS : 3564 bright finished brass hydraulic door closer (best make of approved quality) with necessary accessories and screw etc. Complete.	Each	25.00	979.50
31	9.82	Supply and fixing bright finished brass hanging type floor door stopper with necessary screws etc complete	Each	80.00	108.10
32	9.96.2	Providing and fixing alluminium sliding door bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete: 250x 16 mm	Each	25.00	210.10
33	9.97	Providing and fixing alluminium sliding tower bolt anodised(anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour and shade with nuts and screws etc. complete:			

a	9.97..1	300x10 mm	Each	25.00	111.40
b	9.97.4	150x10 mm	Each	25.00	71.60
34	9.100.	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	80.00	50.30
35	18.74	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.			
a	18.74.2	15 mm nominal bore with 45 cm length	Each	45.00	108.00
36	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm,breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	each	8.00	96.80
37	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.			
a	17.73.1	450 mm long towel rail with total length of 495 mm,78 mm wide and effective height of 88 mm, weighing not less than 170 gms	Each	8.00	397.30
38	9.21	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type,core of block board construction with frame of 1 st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:			
a	9.21.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	21.60	1,775.30
39	17.1	Providing and fixing water closet squatting pan (Indian type W.C.pan)with 100 mm sand cast Iron P or S trap, 10 litre low fixtures complete,including cutting and making good the walls andlevel white P.V.C.flushing cistern, including flush pipe, with manually controlled device(handle lever) conforming to IS : 7231, with all fittings and floorswherever required :			

a	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	2.00	4,470.90
40	17.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :			
a	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	Each	2.00	4,230.00
41	10.36	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes,channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless stel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).	kg.	550.00	546.80
42	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size,approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1cement : 4coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.granite			
a	8.2.2.1	Area of slab upto 0.50 sqm	sqm	10.50	4,242.90

43	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (Thickness to be specified by the manufacture) of approved make in all colours, shades except burgundy , bottle green , black of any size as approved by Engineer-in-charge in skirting , risers of steps and dados over 12 mm thick bed of cement Motar 1:3(1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	40.00	795.00
44	11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of ist quality conforming to IS : 15622 of approved make in colours such as white , Ivory , Grey , Fume Red , Brown , laid on 20 mm thick Cement motar 1:4 (1 cement: 4 coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	sqm	17.28	686.80
45	9.47	Providing and fixing nickel plated M.S. pipe curtain rods with nickel plated brackets			
a	9.47.2	25 mm dia (heavy type)	mtr.	50.00	159.30
46	17.18	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.			
a	17.18.1	10 litre capacity - White	each	8.00	905.50
47	18.56	Providing and fixing PTMT pillar cock of approved quality and colour			
a	18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	15.00	180.80
48	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	Each	33.00	434.20
49	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931			
a	18.53.1	15 mm nominal bore	each	8.00	500.40
50	11.41.2	Providing and laying vitrified floor tiles in different sizes {thickness to be specified by the manufactruer) with water absorption's less than 0.08 % and conforming to IS : 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joint with white cement and matching pigments etc.complete.Size of			

a		Tile 600x600 mm.	sqm	47.52	1,638.80
51	11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles	sqm.	47.52	-480.60
52	11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.	sqm.	47.52	446.80
53		Carrage of the following material			
a		Sone Sand (45 km from Koelwar)	Cum	6.68	1,132.90
b		Difference of Cost of Cement	tonn	3.80	234.62
		Civil Non Schedule Item			
54	NSI	Providing and fixing 12mm thick Centutuary/Green ply of approved brand. For cup-board , ward robe , partition / panelling Etc. All complete as per archiectural drawings and directions of engineer-incharge	sqm	15.00
55	NSI	Providing and fixing 19 mm thick Centutuary/Green ply of approved brand. For cup-board , ward robe , partition / panelling Etc. All complete as per archiectural drawings and directions of engineer-incharge	sqm	73.42	í í í í í í .
56	NSI Vide Cat. Page-40	Providing and Fixing Jet spray with 1 meter PVC Tube (Stainless steel) all complete. ESSCO Model ALE-547 or equivalent.	Each	5.00	í í í í í í .
57	NSI Vide Cat. Page-40	Providing and Fixing Two way angle Cock with flange all Complete. PRAYAG Model no-PIS-11 H or equivalent.	Each	5.00	í í í í í í .
58	NSI Vide Cat. Page-11	Providing and Fixing Hand shower (Health Faucet) with 8mm Dia,1 Meter Long Flexible Tube & Wall Hook all complete. Jaguar Model ALD-CHR-573 or equivalent.	Each	5.00	í í í í í í .
59	NSI Vide Cat. Page-85	Providing and Fixing Florenitine Bib Cock with Extented Lever Handle and Wall Flange All copleted . Jaquar Modle FLR-5043N or equivalent.	Each	10.00	í í í í í í .


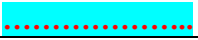

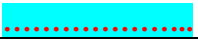
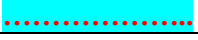
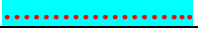




INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-02

SHORT URGENT TENDER NOTICE NO.- Engg. /04/ EC/CW/Tender/2022-23

Sl. No.	Name of the Work :-	Annual Maintenance Contract (AMC) of fire Extinguisher ,Fire Alarm, Smock Detector, Glow sign Board & Fire Hydrant System for Different Hospital Building at IGIMS Patna-14
1	Estimated Cost (In Rs.) :-	Rs. 11,08,442/-
2	Earnest Money (In Rs.) :-	Rs. 22,200/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2500/-
4	Time of completion :- (In Days)	365 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.	BSR-2022	Item Description	Unit	Qty.	Rate
		PART-A (AMC)			
1	NSI	ABC dry powder stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (+5)° C to (+55)° C for Class 2A & 21B type of Fire filled with MAP ABC Powder, Complete in all respect, Capacity – 6 Kg.	Each	146.00	
2	NSI	ABC Clean Agent store pressure squeeze grip Type Fire Extinguisher, filled with NAF P-IV, Complete in all respect, Capacity – 2 Kg.	Each	24.00	
3	NSI	CO₂ stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (-30)° to (55)° C for Class 13B type of Fire, fitted with 1 Mt. Hose & PVC Horn, Complete in all respect, Capacity – 4.5 Kg.	Each	68.00	
4	NSI	CO₂ stored pressure wheel Type vale Fire Extinguisher, ISI Mark (IS 2878), fitted with 1 Mtr. Hose, Horn & Trolley Handle, Complete in all respect, Capacity – 6.5 Kg.	Each	15.00	
5	NSI	Water CO₂ Type Fire Extinguisher, ISI Mark (IS:13385), Mounted on Trolley Wheel	Each	14.00	

		Complete with G.M. Cap Hose, Gas Cartridge 300 Gms, Complete in all respect, Capacity – 50 Ltrs.			
6	NSI	Mechanical Foam (AFFF) Type Fire Extinguisher, ISI Mark (IS:13386), Mounted on Trolley Wheel, Complete with 300 Gms Gas Cartridge, ISI Mark (IS:4947) and IS Mark Refill (IS:4989) Part-II, Complete in all respect, Capacity ó 50 Ltrs.	Each	3.00	
7	NSI	Fire Bucket, Capacity ó 9 Ltr.	Each	20.00	
8	NSI	M.S. Fire Bucket Stand with G.I. sheet stand shade (Four bucket hanging facility in each stand)	Each	5.00	
9	NSI	Conventional automatic Fixed cum rate of rise temperature type Heat Detector, 12 / 24 volt D.C., visual alarm indicator (LEDø) öBlink-Greenö in stand by and öStudy-Redö in alarm complete in all respect with base as required, EN / LPCB listed / approved	Each	28.00	
10	NSI	Conventional automatic Optical / Photoelectric type Smoke Detectors of photo-optic sensing chamber, 12 / 24 volt D.C., visual alarm indicator (LEDø) öBlink-Greenö in stand by and öStudy-Redö in alarm complete in all respect with base as required, EN / LP	Each	732.00	
11	NSI	Providing, fixing, testing and commissioning of response indicators with dual LED suitable for operation on 12/24 volts D.C., sheet steel / Polymer housing suitable for surface/recess mounting including making connections with wires complete in all respect	Each	390.00	
12	NSI	Addressable type Manual Call Points as per specifications. The manual call point should have an indicator, which should öblink" in stand by condition.	Each	87.00	
13	NSI	(Make : Agni Suraksha (ASES), Safeway, System Sensor or its equivalent.)			
A		Electronic Hooters housed in sheet steel / Polymer housing suitable for wall / ceiling and surface / recess mounting including making connections with wires complete in all respects and as per specifications . (Make : Agni Suraksha (ASES), Safeway, Sys	Each	72.00	
14	NSI	Digitally addressed having addressable features (Capable of giving individual address of each detector) Fire Alarm Control and indicating panel, microprocessor based with RS 485 communication, pulser, timer for dual stage alarm facility complete with ind			
a		4 Zone Panel	Each	1.00	
b		8 Zone Panel	Each	6.00	


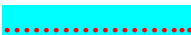


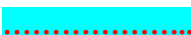

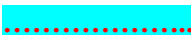





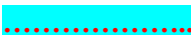
c		16 Zone Panel	Each	1.00	
<u>Fire Hydrant System</u>					
1	NSI	AMC of M.S. Pipe including all fittings like coupling, bends, elbows, offsets, blind flanges, plugs, tees, flanges, etc. welding joints (all type) as required, supports, cutting holes and chases in brick or RCC walls or floors, with painting and making good complete. Pipes should be welded joint (all type), Pipes conforming to I.S.:1239			
a		80 mm dia.	Mtr.	12.00	
b		100 mm dia.	Mtr.	130.92	
c		150 mm dia.	Mtr.	145.01	
2	NSI	AMC of S. S. Landing Valve (hydrant valve) conforming to IS:5290 with 63 mm dia instantaneous female coupling on the outlet blank cap and chain necessary companion flanges, nuts, bolts, washer and gasket complete as per specification. (ISI marked), Single Outlet.	Nos.	20.00	
3	NSI	AMC of First aid fire hose reel wall mounting swinging type fitted with 20 mm dia x 30 m long high pressure hose with PVC shut-off nozzle conforming to IS:884-1969	Nos.	20.00	
4	NSI	AMC of 63 mm dia 15 mtr. Long Rubberized fabric lined hose (RRL) including G.M. male and female instantaneous type coupling, machine wound with copper wire complete in all respects. Hose shall confirm to IS:636 Type A (ISI marked)	Nos.	40.00	
5	NSI	AMC of standard short size S. S. Short Branch Pipe with nozzle 16 mm dia outlet with standard instantaneous type 63 mm dia Male coupling. (ISI marked)	Nos.	20.00	
6	NSI	AMC of Fire hose cabinet fabricated from M.S. Sheet with single or double front door and locking arrangement, Red painted including suitable supports to place 900 mm above ground level, approximately size 30ö x 24ö x 10ö (to house two length of canvas hose with couplings & branch pipe for external / internal hydrants)	nos	20.00	
7	NSI	AMC of cast iron dual plate wafer type Non return valves of PN. 1.0 including nuts, bolts. 1.5 mm thick compressed asbestos gasket including matching flanges etc. complete.			
a		80 mm dia.	Nos.	2.00	
b		100 mm dia.	Nos.	3.00	

c		150 mm dia.	Nos.	2.00	
8	NSI	AMC of C.I. Butter fly valves PN 1.0 complete with bolts, nuts 1.5 mm thick compressed asbestos gasket companion flange etc. complete.			
a		80 mm dia.	Nos.	2.00	
b		100 mm dia.	Nos.	3.00	
c		150 mm dia.	Nos.	2.00	
9	NSI	AMC of resilient rubber lined single arch vibration eliminators suitable for raw water up to 45°C temperature, working pressure 8.8 kg/cm ² and test pressure of 14 kg./cm ² for :-.			
		· 80 mm dia.	Nos.	1.00	
		· 100 mm dia.	Nos.	1.00	
10	NSI	AMC of C. I. Two way Fire brigade inlet breaching head as per IS:904 specification tested for 20 kg/cm ² with 63 mm dia instantaneous type inlet and 150 / 100 mm dia flanged outlet with built-in check valve for Fire brigade connection to fire risers including companion flanges, including nuts, bolts & washers etc.	Nos.	2.00	
11	NSI	AMC of dial type Pressure gauge IPS 100, with isolation cock and copper pipe at hydrant point	Nos.	21.00	
12	NSI	AMC of dial type Pressure gauge and pressure switch IPS 200, with isolation cock and copper pipe at hydrant station and hydrant point	Set	1.00	
13	NSI	Providing & fixing M.S. 150 mm dia. Air cushion tank with air release valve, complete in all respect.	Nos.	1.00	
14	NSI	AMC of heavy duty PVC insulated, PVC Armored aluminum conductor cable including necessary support clamps and connection lugs complete in all respects.			
		a) Power Cable 4 core x 25 Sqmm	Mtr.	129.80	
15	NSI	Terrace Pump : Supplying and fixing -Kirloskarø make horizontal end suction Pump, Model : DB ó 50/16 with Bronze Impeller, S. S. Shaft head, 3 Phase 415 Volt TEFC AC Motor, Mechancial Seal coupling & Base plate AVM Pads			
a		a. Capacity : 900 L.P.M.	Nos.	1.00	
		b. Head : 35 Mtr.			

		c. HP : 12.5 HP			
		d. RPM : 2900			
16	NSI	AMC of dust & vermin proof cubicle type Motor control panel fabricated form powder coated 18 SWG MS sheet complete with incoming main MCCBs, fully taped aluminum bus bar, volt meter, rotary selector switch for reading voltage between phases. Amp. Meter with selector, 3 phase indication light, 3 phase preventions of suitable, auto / manual off selector, color coded internal wiring form main to bus bar, complete in all respect.			
		Panel for Terrace Fire Pump	Nos.	1.00	
17	NSI	AMC of of PVC Water Tank of Capacity ó 2000 Ltr., complete in all respect.	Nos.	12.00	
18	NSI	AMC of of G.I. Tata pipe for filling water in PVC Water Tank, complete in all respect :-			
A		· 50 mm dia.	Mtr.	13.20	
B		· 40 mm dia.	Mtr.	33.00	
18	NSI	AMC of gun metal gate valve with C.I. wheel of			
		approved quality (screwed end) :			
a		40 mm nominal bore	each	1.00	
b		50 mm nominal bore	each	1.00	
19	NSI	AMC of ball valve (brass) of approved quality,			
		High or low pressure, with plastic floats complete :			
		25 mm nominal bore	each	10.00	
		SUBHEAD-V (B) : FIRE FIGHTING WORKS (NON-SCHEDULED ITEMS)			
		NOTE : Contractor shall obtain, from the local fire authority, completion certificate with respect to his work as required for occupation of the building without any extra cost.			
		TERRACE LEVEL - FIRE PUMP			
				-	

1	NSI	AMC of INSTALLED , storing, handling, shifting, installation, testing and commissioning, supervision of testing of electric driven terrace pump suitable for automatic operation of horizontal end section centrifugal type synchronous speed of 2900 rpm TEFC confirm			
		Capacity 450 LPM at 3.5 Kg./Cm2 delivery pressure for fire hydrant network.			
		, installation, testing and commissioning of following integrated, cubicle type, dead front, extensible, sheet steel control panel. The panel shall be suitable for 440 volts, 50 cycles, 4 wire supply			
		The following components and accessories shall be mounted with ineach control panel.			
		One no 60 amps TP incoming MCCB with the following:			
		0-500 volts 96 x96 square mm voltmeter with selector switch and control fuses- 1 SET			
		0-100 amps 96 x96 square mm ammeter with CT's and selector switch- 1 SET			
		Phase indicating lamp with toggle switches.			
		Indication lamps for ON/OFF/TRIP status			
		Outgoing Feeders / Starters as below:			
		60 ATP MCCB with star / delta as starter suitable for 15 HP motor for Downcomer Pump - 1 Set			
		Provision in control panel to connect flow switch for autmatic operation of roof fire pumps.	Set	1.00	
2	NSI	AMC of resilient rubber lined single arch vibration eliminators suitable for raw water up to 45 deg. C temperature, working pressure 8.8 Kg/cm2 and test pressure 14 Kg/cm2 for :-			
a		150 mm dia	Each	2.00	
3	NSI	AMC of fire brigade inlet connection (fire department connection) consisting of 4 Nos. 63 mm dia instantaneous inlet arranged on a 50 mm dia header, 1 No. 150 mm diameter sluice valve, 1 No. 150mm dia. Non-return	set	1.00	
4	NSI	Supply, installation, testing, trial run and commissioning of hydrants all complete as required and as approved			
		Internal hydrants / landing valves generally as specified and all complete with:			

		63mm dia single outlet landing valve IS marked with suitable size bolts, nuts, washers and gaskets. Landing valve shall be as per IS code.			
		First aid hose reel with 25 mm dia, 30 m long rubber hose, ball valve, piping, nozzle and pressure guage as per IS code.			
		63mm reinforced rubber hoses (RRL) with male and female SS coupling, IS marked- 15 m. as per IS code.			
		standard short size SS branch pipe with nozzle of 20mm nominal bore outlet with instantaneous type 63 mm dia coupling complete as per IS code.	Each	2.00	
5	NSI	AMC of of hydrants all complete as required and as approved (at roof level).			
		Internal hydrants/landing valves generally as specified and all complete with:			
		63mm dia single outlet landing valve IS marked with suitable size bolts, nuts, washers and gaskets. Landing valve shall be as per IS code.			
		63mm reinforced rubber hoses (RRL) with male and female SS coupling, IS marked- 15 m as per IS code.			
		standard short size SS branch pipe with nozzle of 20mm nominal bore outlet with instantaneous type 63 mm dia coupling complete as per IS code.	Each	2.00	
6	NSI	AMC for, fabrication & laying heavy grade IS marked black mild steel piping complete with all fittings, pipe supports, clamps etc. as approved with welded jointing for external hydrant system. These pipes shall be provided with 2mm thick weather proof tree			
		100 nominal bore	Meter	25.00	
7	NSI	AMC of Butterfly Valves with mating flanges generally as specified all complete.			
a)		150 nominal bore	Each	1.00	
8	NSI	AMC for laying cast iron non-return valve IS marked with flanges generally as specified complete.		-	
a)		150 nominal bore	Each	1.00	
9	NSI	AMC of C.I. flanged single air valves size 25mm with 25mm SS isolation valve etc. all complete.	Each	2.00	
10	NSI	AMC of heavy grade (Class C) IS marked black mild steel piping complete with all forged fittings, pipe supports, clamps, painting etc. as approved with threaded and welded jointing for Wet Riser System.		-	
		Note: a. Threaded joint upto 50mm diameter pipe. Welded joint above 50mm diameter pipe.		-	

a		150 mm nominal bore (Class C)	Rm	5.00	
b		100 mm nominal bore (Class C)	Rm	165.00	
c		80 mm nominal bore (Class C)	Rm	18.50	
SUBHEAD-VI(B) : PORTABLE FIRE EXTINGUISHERS & EXIT SIGNAGES WORKS (NON-SCHEDULED ITEMS)					
1	NSI	AMC of portable fire Extinguishers as described below:			
a	NSI	4.5 kg carbon dioxide extinguisher, IS marked, with high pressure discharge tube, horn, control valve, CCE approved cylinder	Each	8.00	
b	NSI	6 kg Mono ammonium phosphate (ABC) type cartridge operated extinguishers	Each	6.00	
c	NSI	2 kg Mono ammonium phosphate (ABC) type cartridge operated extinguishers	Each	4.00	
SUBHEAD-VI-FIRE ALARM SYSTEM					
1	NSI	AMC of microprocessor based Networkable Analogue Addressable upto 200 nodes 4 Loop with 4 loop card Fire Alarm Control Panel with 640 character LCD Display, the Panel Should be equipped with sufficient nos. of loop	Nos	1.00	
2	NSI	AMC of Analogue Addressable Heat sensor having removable high performance chamber with Twin fire LED's allow 360 degree veiwing, lock mechanism (sensor to base), Variable sestivity, Electronically addressed, appr	Nos	1.00	
3	NSI	AMC of electronically Addressable multi sensor detector with microprocessor in head and including the base with LED etc. as required. (CEASE FIRE Cat no-CF-ACA-E)	Nos	235.00	
4	NSI	AMC of Analogue Addressable Loop powered Wall Sounder providing 8 Volume levels & 51 Tones with a maximum o/p of upto 102 dB(A) with low current consumption, can be fitted on Isolator Type Base which is fully comp	Nos	2.00	
5	NSI	AMC of Analogue Addressable Manual Call Point ESP Analogue Addressable Protocol having status LED for Alarming & standby mode,Electronically addressed, approved by LPCB. (CEASE FIRE CAT NO- CF-HCP-E)	Nos	2.00	
7	NSI	AMC of Analogue Addressable Response Indicator, approved by LPCB.	Nos	1.00	
8	NSI	AMC of ABC Clean Agent store pressure squeeze grip type fire exisingusher filled with NAF P-IV, complete in all respect	Each	40.00	
-		PART-B			

1	NSI	Refilling of ABC dry powder stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (+5)° C to (+55)° C for Class 2A & 21B type of Fire filled with MAP ABC Powder, Complete in all respect, Capacity ó 6 Kg.	each	25.00	
2	NSI	Refilling of CO2 stored pressure squeeze grip Type Fire Extinguisher, ISI Mark (IS:15683), operating temperature (-30)° to (55)° C for Class 13B type of Fire, fitted with 1 Mt. Hose & PVC Horn, Complete in all respect, Capacity ó 4.5 Kg.	each	68.00	
3	NSI	Refilling of CO2 stored pressure wheel Type vale Fire Extinguisher, ISI Mark (IS 2878), fitted with 1 Mtr. Hose, Horn & Trolley Handle, Complete in all respect, Capacity ó 6.5 Kg.	each	15.00	
4	NSI	Refilling of Water CO2 Type Fire Extinguisher, ISI Mark (IS:13385), Mounted on Trolley Wheel Complete with G.M. Cap Hose, Gas Cartridge 300 Gms, Complete in all respect, Capacity ó 50 Ltrs.	each	14.00	
5	NSI	Refilling of Mechanical Foam (AFFF) Type Fire Extinguisher, ISI Mark (IS:13386), Mounted on Trolley Wheel, Complete with 300 Gms Gas Cartridge, ISI Mark (IS:4947) and IS Mark Refill (IS:4989) Part-II, Complete in all respect, Capacity ó 50 Ltrs.	each	3.00	
6	NSI	Refilling of ABC Clean Agent store pressure squeeze grip type fire exisingusher filled with NAF P-IV, complete in all respect	Each	10.00	
		PART-C			
		Providing and Fixing of fire Extinguishers Accessories Rate :-			
1	NSI	Safety Lock for fire extinguishers	each	120.00	
2	NSI	Discharge horn for CO2 fire extinguishers	each	8.00	
3	NSI	Discharge pipe for CO2 fire extinguishers	each	8.00	
4	NSI	Discharge pipe for ABC dry powder fire extinguishers	each	15.00	
5	NSI	Wall Bracket for portable fire extinguishers	each	25.00	
6	NSI	Trolley for CO2 fire extinguishers	each	3.00	
7	NSI	Trolley for Water CO2 & Mechanical Foam 50 Ltrs. Capacity fire extinguishers	each	3.00	
8	NSI	Discharge pipe for Water CO2 & Mechanical Foam 50 Ltrs. Capacity fire extinguishers	each	4.00	

9	NSI	Squeeze grip valve for ABC & Clean Agent fire extinguishers	each	20.00	
10	NSI	Valve for CO2 fire extinguishers	each	8.00	
11	NSI	Smoke Detector & Fire Alarm System Rate :-			
12	NSI	Conventional automatic Optical / Photoelectric type Smoke Detectors of photo-optic sensing chamber, 12 / 24 volt D.C., visual alarm indicator (LED) Blink-Green in stand by and Study-Red in alarm complete in all respect with base as required, EN / LPCB listed / approved. (Make : System Sensor)	each	10.00	
13	NSI	Conventional automatic Fixed cum rate of rise temperature type Heat Detector, 12 / 24 volt D.C., visual alarm indicator (LED) Blink-Green in stand by and Study-Red in alarm complete in all respect with base as required, EN / LPCB listed / approved (Make : System Sensor)	each	2.00	
14	NSI	Addressable type Manual Call Points as per specifications. The manual call point should have an indicator, which should "blink" in stand by condition .			
15	NSI	(Make : Agni Suraksha or ASES or equivalent)	each	10.00	
16	NSI	Electronic Hooters housed in sheet steel / Polymer housing suitable for wall / ceiling and surface / recess mounting including making connections with wires complete in all respects and as per specifications . (Make : Agni Suraksha -ASES)	each	6.00	
17	NSI	Response indicators with dual LED suitable for operation on 12/24 volts D.C., sheet steel / Polymer housing suitable for surface/recess mounting including making connections with wires complete in all respects. (Make : Agni Suraksha - ASES)	each	10.00	
18	NSI	Supply, Installation, Testing & Commissioning of 25 mm dia. PVC Conduit pipe ISI marked, complete with all fittings viz. Tees, Bends, Junction Boxes, Clamps / Supports etc. to be concealed in slabs / brick work as required or surface laid.	each	50.00	
19	NSI	Supply, Installation, Testing & Commissioning of Solid copper, conductor, PVC insulated ISI marked twin core FRLS wire :			
a		2 x 1.5 sq mm	Rmt.	50.00	
b		4 x 1.5 sq mm	Rmt.	25.00	

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-03

SHORT URGENT TENDER NOTICE NO.- Engg. /04/ EC/CW/Tender/2022-23

Sl. No.	Name of the Work :-	Proposed Aluminum Partition and lab table in Pathology Lab at 1st Floor of SCI Building at IGIMS, Patna-14
1	Estimated Cost (In Rs.) :-	Rs. 9,28,111/-
2	Earnest Money (In Rs.) :-	Rs. 18,600/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1250/-
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.	BSR-2022	Item Description	Unit	Qty.	Rate
1	21.1.1.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / aneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg.	224.48	386.10

2	21.2	Providing and fixing 12 mm thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.			
a	21.2.2	Pre-laminated particle board with decorative lamination on both sides	sqm	37.50	826.90
3	21.3	Providing and fixing glazing in aluminum door, window, Ventilator shutter and partition etc. with EPDM rubber/neoprene gasket etc. Complete as per the architectural drawings and the direction of engineering-in-charge.(cost of alluminium snap beading shall be paid in basic item.)			
a	21.3.2	Float glass panes.5.5 mm thick glass pane.	sqm	4.25	1,115.10
4	12.78	Providing and fixing on wall face unplasticised-PVC(working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	12.78.2	110 mm diameter	rmt	20.00	257.50
	12.78.1	75 mm diameter	rmt	50.00	162.70
5	12.79	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
b	12.79.3	Single tee with door			
	12.79.3.1	75x75x75 mm	each	5.00	141.60
i	12.79.3.2	110 x110 x110 mm dia PVC	each	5.00	193.40
c	12.79.4	Single tee without door			
	12.79.4.1	75x75x75mm	each	5.00	124.20
i	12.79.4.2	110 x110 x110 mm dia PVC	each	5.00	190.70
d	12.79.5	Band 87.5			
	12.79.5.1	75 mm bend	each	5.00	91.80
i	12.79.5.2	110 mm dia PVC	each	5.00	132.00

6	18.8.	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the.			
a	18.8.2	20 mm nominal outer dia Pipes	metre	50.00	350.80
b	18.8.3	25 mm nominal outer dia Pipes	metre	82.00	463.10
7	18.58	Providing and fixing PTMT grating of approved quality and colour			
a	18.58.1.2	125 mm nominal dia with 25 mm waste hole	each	4.00	45.20
8	18.47	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :			
a	18.47.2	20 mm nominal bore	each	8.00	399.30
b	18.47.3	25 mm nominal bore	each	4.00	479.60
9	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :			
a	18.17.1	25 mm nominal bore	each	2.00	532.30
10	18.52.1	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	594.80
11	18.65	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	each	5.00	96.80
12	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (Cement : 4coarse sand), joints treated with white cement, mixed with			

		matching pigment, epoxy touch ups,including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.granite			
a	8.2.2.1	Area of slab upto 0.50 sqm	sqm	17.35	4,242.90
13	9.133.2.1	Non-asbestos multipurpose cement board reinforced with cellulose fibre manufactured through autoclaving process (high pressure steam cured) as per IS :14862 with suitable fibre cement screw 8 mm thick. (everest Havy duty or its equavalant.)	sqm	17.35	853.10
14	17.11	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required :			
a	17.11.2	Size 600x450x200 mm	each	5.00	5,085.90
15	9.127	Providing & Fixing decorative high pressure laminated sheet of plain /wood grain in gloss / matt / suede finish with high density protectivesurface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.			
a	9.127.2	1.0 mm thicky	sqm	225.50	669.00
16	10.41	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet,joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of			
a	10.41.1	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate kg 211.60	Kg.	1,261.51	211.60
17	9.79	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.			

a	9.79.2	50 mm	each	6.00	222.00
18	9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. Complete			
a	9.114.2	Double strip (horizontal type)	each	14.00	34.10
19	9.80.	Providing and fixing 50 mm bright finished brass cup board or wardrobe knob of approved quality with	each	20.00	56.70
20	9.61.2	Providing M.S. Piano hinges ISI marked IS : 3818 finished with nickel plating and fixing with necessary screws etc., complete Overall width 50 mm	mtr.	28.24	177.50
21	13.93.2	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on old work	Sqm.	43.50	54.30
22	19.1	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m			
a	19.10.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	mtr.	2.00	4,917.95
23	6.1.12/1	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :4 (1 cement: 4 coarse sand).	Cum	1.00	5,017.90
24	11.19	Chequered terrazo tiles 22 mm thick with marble chips of sozes upto 6mm in floors jointed with neat cement slurry mixed with pigment tomatch the shade of the tiles, including rubbing and polshing complete on20 nm thick bed of cement mortar 1:4 (1 cement:4 coarse sand)			
a	11.19.1	Light shade using white cement	sqm	4.92	970.20
		Civil Non Schedule Item			
25	NSI	Providing and fixing 12mm thick Centuuary/Green ply of approved brand. For cup-board , ward robe , partition / panelling Etc. All complete as per archiectural drawings and directions of engineer-incharge	sqm	25.90	í í í í í í í í .
26	NSI	Providing and fixing 19 mm thick Centuuary/Green ply of approved brand. For	sqm	86.85	í í í í í í í í .

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-04

SHORT URGENT TENDER NOTICE NO.- Engg. /04/ EC/CW/Tender/2022-23

Sl. No.	Name of the Work :-	Drain Cleaning Work in Hospital Campus Area at IGIMS, Patna-14
1	Estimated Cost (In Rs.) :-	Rs. 8,39,337/-
2	Earnest Money (In Rs.) :-	Rs. 16,800/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1250/-
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.	BSR-2022	Item Description	Unit	Qty.	Rate
1	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead:	cum	4.25	1,411.20
2	2.8.1	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of Soil	cum	81.38	360.70
3	2.13	Excavating trenches of required width for pipes cables, etc, including excavation for sockets, depth upto 1.5 m including getting out the excavated materials , returning the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering,etc. stacking serviceable material for measurements and disposed ' of unserviceable material as directed,			

		within a lead of 50 m:			
a	2.13.1.3	Ordinary rock Pipes, cables etc exceeding 300 mm dia m length of pipe	per meter	20.00	1,279.30
4	2.27	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead			
a	2.27.1	Ali kinds of soil.	Cum	23.40	49.40
5	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	8.23	287.30
6	11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	sqm	82.30	283.30
7	4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
a	4.1.3	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	10.11	3,998.10
8	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of entring,shuttering,finishing and reinforcement-All work puto plinth level			
a	5.1.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)c	Cum	8.44	4,688.30
9	6.1C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :			
a	6.1.14C	Cement mortar 1:6 (1 cement: 6 coarse sand)	Cum	25.60	4,923.00
10	19.6	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	19.6.2	150 mm dia. R.C.C	per meter	25.00	410.70
11	19.35	Providing and laying Non Pressure NP-3 class (Medium duty)R.C.C. pipes including			

		collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand)including testing of joints etc. completed.			
a	19.35.1	450 mm dia RCC pipes.	per meter	10.00	2,167.10
12	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
a	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm	kg	138.65	94.50
b	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	370.26	92.60
13	5.9	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	5.9.5	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	39.00	404.70
14	13.11.2	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	190.40	152.90
15	13.26	Neat cement punning	Sqm.	190.40	40.50
16	12.78	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	12.78.2	110 mm diameter	rmt	19.62	257.50
17	19.3	Constructing brick masonry chamber for underground C.I.inspection chamber and bends with bricks in cement mortar 1:4 (1cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design			
a	19.30.1	Inside dimensions 455x610 mm and 45 cm deep			

		for single pipe line :			
i	19.30.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2.00	5,942.00
18	19.31.1.1	Extra for depth beyond 45 cm of brick masonry chamber For 455x610 mm size With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	meter	1.20	3,946.20
19	19.19.1	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality L D- 2.5			
a	19.19.1.1	Rectangular shape 600x450 mm internal dimensions	each	10.00	1,120.60
b	19.19.1.2	Square shape 450 mm internal dimensions	each	5.00	946.80
20	2.25	Pumping out water caused by springs, tidal or river seepage, broken water mains or drains and the like.	kl.	105.00	107.20
21		Extra cost for carriage of Material			
a		Local Sand / Earth soil (3 Km)	Cum	9.46	310.47
b		Sone Sand (45 km from Koelwar)	Cum	17.77	1,132.90
c		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	16.17	2,464.45
d		Bricks (7P+ 1K)	%o	15.32	840.43
e		Difference of Cost of Bricks	%o	2.67	1,420.51
f		Difference of Cost of Cement	tonn	9.67	234.62
		CIVIL NON-SCHEDULE			
22	NSI	Supplying Labour and Tools for cleaning of filled up and choked manhole chamber and different size sewer line including disposal silt with all necessary arrangement .	cum	330.89	í í í í í í í

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-05

SHORT URGENT TENDER NOTICE NO.- Engg. /04/ EC/CW/Tender/2022-23

Sl. No.	Name of the Work :-		Extension of Compound wall and Development Area Near R.C.C Sub-Station at IGIMS,Patna-14		
1	Estimated Cost (In Rs.) :-		Rs. 8,38,288/-		
2	Earnest Money (In Rs.) :-		Rs. 16,800/-		
3	Cost of B.O.Q. (In Rs.) :-		Rs. 1250/-		
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.	BSR-2022	Item Description	Unit	Qty.	Rate
1	15.7	Demolishing brick work including stacking of serviceable material and disposal of unserviceable material within 50 meters lead:			
a	15.7.4	In cement mortar	cum	25.00	823.70
2	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead:	cum	10.00	1,411.20
3	2.32	Clearing jungle including uprooting of rank vegetation ,grass, brush wood,trees and saplings of girth upto 30 cm measured at a height of 1 m aboveground level and removal of rubbish upto a distance of 50 m outside theperiphery of the area cleared.	Sqm.	240.00	6.97

4	20.2	Boring, providing and installing bored cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring, with bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).			
a	20.2.1	300 mm dia piles	Meter	57.00	902.60
5	2.8.1	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of Soil	cum	5.30	360.70
6	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	11.10	287.30
7	11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	Sqm.	14.00	283.30
8	4.1	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level.			
a	4.1.3	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	19.80	3,998.10
9	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of entring,shuttering,finishing and reinforcement-All work puto plinth level			

a	5.1.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)c	Cum	3.30	4,688.30
10	5.2	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	5.2.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20mm nominal size)	Cum	3.59	5,670.00
11	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.		-	
a	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm dia	kg	427.00	94.50
b	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	440.56	92.60
c	5.22.7C	Thermo-Mechanically Treated bars TMTC-500-12mm dia	kg	150.00	90.80
12	5.9	Centring and shuttering including strutting,propping etc. and removal of form for.		-	
a	5.9.5	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	75.10	404.70
13	6.1C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in :			
a	6.1.14C	Cement mortar 1:6 (1 cement: 6 coarse sand)	Cum	13.20	4,923.00
14	6.3C	Extra tor Brick work in superstructure above plinth level upto floor V	Cum	13.20	842.20
15	13.12.2	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand)	Sqm.	61.30	176.40
16	13.11.2	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	72.35	152.90
17	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade :		-	

a	13.46.1	New work (Two or more coat applied @ 1.67 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	Sqm.	133.70	137.00
18	13.82.1	Painting with ready mixed paint of approved brand and manufacture in all shades to give an even shade new steel work	Sqm.	50.00	83.50
19	9.48.1	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	738.65	144.50
20	11.77	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.	240.00	721.10
21		Extra cost for carriage of Material		-	
a		Local Sand / Earth soil (3 Km)	Cum	11.31	310.47
b		Sone Sand (45 km from Koelwar)	Cum	19.16	1,132.90
c		Stone Aggregate ,(110 Km From Gaya Manpur)	Cum	26.90	2,464.45
d		Bricks (7P+ 1K)	%o	6.97	840.43
e		Difference of Cost of Bricks	%o	0.50	1,420.51
f		Difference of Cost of Cement	tonn	12.36	234.62

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-06

SHORT URGENT TENDER NOTICE NO.- Engg. /04/ EC/CW/Tender/2022-23

Sl. No.	Name of the Work :-	Aluminum Partition and S.S Railing of Registration Counter of Radiology Department and False Ceiling work Ground Floor in New Blood Bank Building at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	Rs. 6,93,732/-
2	Earnest Money (In Rs.) :-	Rs. 13,900/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1250/-
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.	BSR-2022	Item Description	Unit	Qty.	Rate
1	21.1.1.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / aneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :For fixed portion Anodised aluminium (anodised transparent or dyed to	kg.	59.40	386.10

		required shade according to IS: 1868, Minimum anodic coating of grade AC 15)			
2	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade 1 Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.			
a	21.2.2	Pre-laminated particle board with decorative lamination on both sides	sqm	9.00	826.90
3	21.3	Providing and fixing glazing in aluminum door, window, Ventilator shutter and partition etc. with EPDM rubber/neoprene gasket etc. Complete as per the architectural drawings and the direction of engineering-in-charge.(cost of alluminium snap beading shall be paid in basic item.)			
a	21.3.2	Float glass panes.5.5 mm thick glass pane.	sqm	3.60	1,115.10
4	10.36	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes,channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts,fasteners etc.).	KG.	670.46	546.80
5	12.54x	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip and main carrier bracket at 1000 mm c/c. Inverted triangle shaped Spring Tee having			

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-07

SHORT URGENT TENDER NOTICE NO.- Engg. /04/ EC/CW/Tender/2022-23

Sl. No.	Name of the Work :-		Construction of R.C.C Drain Line from polyclinic to 11KVA Electric Sub-Station at IGIMS,Patna-14		
1	Estimated Cost (In Rs.) :-		Rs. 5,31,462/-		
2	Earnest Money (In Rs.) :-		Rs. 10,700/-		
3	Cost of B.O.Q. (In Rs.) :-		Rs. 1250/-		
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.	BSR-2022	Item Description	Unit	Qty.	Rate
1	15.3	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material withing 50 metres lead:	cum	6.53	1,411.20
2	2.8.1	Earth work in excavation in foundation trenches or drains(not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m . including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of Soil	cum	65.63	360.70
3	2.26	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	cum	25.75	123.90
4	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete	Cum	5.25	287.30

5	11.72	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I,	Sqm.	52.50	283.30
6	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level.			
a	4.1.4	1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	cum	5.25	3,879.40
7	5.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of ntring,shuttering,finishing and reinforcement-All work puto plinth level			
a	5.1.2	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)c	Cum	22.05	4,688.30
8	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
a	5.22.7A	Thermo-Mechanically Treated bars TMTC-500-8mm	kg	885.00	94.50
b	5.22.7B	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	1,245.00	92.60
9	5.9	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	5.9.2	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	sqm	186.00	375.10
10	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete . Base with 1:1:1 (1lime : 1 surkhi: 1 coarse sand) / 1:4 (1 cement: 4 coarse sand)			
a	11.26.1	20 to 25 mm thick -	sqm	3.68	1,252.70
11		Extra cost for carriage of Material			
a		Local Sand / Earth soil (3 Km)	Cum	6.04	310.47
b		Sone Sand (45 km from Koelwar)	Cum	12.24	1,132.90

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-08

SHORT URGENT TENDER NOTICE NO.- Engg. /04/ EC/CW/Tender/2022-23

Sl. No.	Name of the Work :-	Drain Cleaning in Residential Campus Area at IGIMS, Patna-14
1	Estimated Cost (In Rs.) :-	Rs. 3,60,769/-
2	Earnest Money (In Rs.) :-	Rs. 7,300/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 750/-
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.	BSR-2022	Item Description	Unit	Qty.	Rate
		CIVIL SCHEDULE			
1	2.13	Excavating trenches of required width for pipes cables, etc, including excavation for sockets, depth upto 1.5 m including getting out the excavated materials , returning the soil as required in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering,etc. stacking serviceable material for measurements and disposed ' of unserviceable material as directed, within a lead of 50 m:			
a	2.13.1.3	Ordinary rock Pipes, cables etc exceeding 300 mm dia m length of pipe	per meter	20.00	1,279.30
2	19.60	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	19.6.2	150 mm dia. R.C.C	per meter	20.00	410.70

3	19.35	Providing and laying Non Pressure NP-3 class (Medium duty)R.C.C. pipes including collars/spigot jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand)including testing of joints etc. completed.			
a	19.35.1	450 mm dia RCC pipes.	per meter	10.00	2,167.10
4	6.1.12/1	Brick work with bricks of class designation 100A in foundations and plinth in Cement mortar 1 :4 (1 cement: 4 coarse sand):	cum	3.00	5,017.90
5	13.17.1	12 mm cement plaster 1:3(1 cement: 3 coarse sand) finished with a floating coat of neat cemen	sqm.	50.00	203.60
6	19.30	Constructing brick masonry chamber for underground C.I.inspection chamber and bends with bricks in cement mortar 1:4 (1cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design			
a	19.30.1	Inside dimensions 455x610 mm and 45 cm deep for single pipe line :			
i	19.30.3.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2.00	5,942.00
7	19.31.1.1	Extra for depth beyond 45 cm of brick masonry chamber For 455x610 mm size With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	meter	1.00	3,946.20
8	19.19.1	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality L D- 2.5			
a	19.19.1.1	Rectangular shape 600x450 mm internal dimensions	each	15.00	1,120.60
b	19.19.1.2	Square shape 450 mm internal dimensions	each	5.00	946.80

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-09

SHORT URGENT TENDER NOTICE NO.- Engg. /04/ EC/CW/Tender/2022-23

Sl. No.	Name of the Work :-	Plumbing work in Neurology Department, Wardrobe in Guest House and Making Aluminum Cubical and False Ceiling in Room no-64 at IGIMS, Patna
1	Estimated Cost (In Rs.) :-	Rs. 2,35,758/-
2	Earnest Money (In Rs.) :-	Rs. 4,800/-
3	Cost of B.O.Q. (In Rs.) :-	Rs. 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.	BSR-2022	Item Description	Unit	Qty.	Rate
1	12.78	Providing and fixing on wall face unplasticised-PVC (working pressure 4 kgf per sqm) rain water pipes conforming to IS :4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	12.78.1	75 mm diameter	rmt	63.00	162.70
2	12.79	Providing and fixing on wall face unplasticised -PVC molded fittings/accessories for unplasticised-PVC rain water pipes conforming to (S:4985 including jointing with seal ring conforming to IS: 5382 leaving 10 mm gap for thermal expansion.			
a	12.79.4	Single tee without door			
i	12.79.4.1	75x75x75 mm dia PVC	each	23.00	124.20

b	12.79.5	Band 87.5			
i	12.79.5.1	75 mm bend	each	23.00	91.80
3	12.8	Providing and fixing unplasticised -PVC pipe clip of approved design to unplasticised PVC rain water pipe by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing on cement mortar(1:4) 1 cement: 4corsa sand and making good the wall etc complete			
a	12.80.1	75 mm	each	22.00	184.10
4	18.8.	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement nd testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the.			
a	18.8.2	20 mm nominal outer dia Pipes	metre	12.00	350.80
5	18.58	Providing and fixing PTMT grating of approved quality and colour			
a	18.58.1.2	125 mm nominal dia with 25 mm waste hole	each	5.00	45.20
6	17.7	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass taps 32mm, C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the wall and floor wherever required.			
7	17.7.2	White Vitreous china wash basin minimum size 630 mm x 400 mm single 15mm CP brass pillar tap	Each	6.00	2,369.90
8	17.28.1.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Semi rigid pipe 32 mm dia	Each	6.00	91.00
9	18.74	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.			
a	18.74.2	15 mm nominal bore with 45 cm length	Each	7.00	108.00
10	18.56	Providing and fixing PTMT pillar cock of approved quality and colour			

a	18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110gms	each	2.00	180.80
11	18.49	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :	Each	2.00	434.20
12	18.50	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms			
a	18.50.1	15 mm nominal bore	Each	2.00	715.10
13	18.52.	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.			
a	18.52.1	15 mm nominal bore	Each	2.00	594.80
14	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) :			
a	18.46.2	20 mm nominal bore	Each	8.00	185.60
15	18.55.2	Providing and fixing PTMT stop cock of approved quality and colour 1 20 mm nominal bore, 89 mm long, weighing not less than 88 gms	Each	4.00	113.80
16	9.12	Providing and fixing powder coated telescopic drawer channels 300 mm long with necessary screws etc. complete as per directions of Engineer-incharge	Each	3.00	355.00
17	9.96	Providing and fixing aluminium sliding door bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete			
a	9.96.1	300x16 mm	Each	24.00	235.50
18	9.127	Providing & Fixing decorative high pressure laminated sheet of plain/ wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality			
a	9.127.2	1.0 mm thick	Sqm	22.00	669.00
19	21.30	Providing and fixing glazing in aluminum door, window, Ventilator shutter and partition etc. with			

		EPDM rubber/neoprene gasket etc. Complete as per the architectural drawings and the direction of engineering-in-charge.(cost of alluminium snap beading shall be paid in basic item.)			
a	21.3.2	Float glass panes.5.5 mm thick glass pane.	sqm	5.76	1,115.10
20	21.1.1.1	Providing and fixing anodised aluminium work for doors,windows, ventilator and partitions with extruded built up standard tubular and other sections of approved make conforming to IS : 733 and IS : 1285,anodised 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. brass/stainless steel screws, all complete as per architecttural drawings and the directions of Engineer-in-charge. (GlazingFor fixed portion and panelling to be paid for separately	kg	102.96	386.10
21	21.2	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.			
a	21.2.2	Pre-laminated particle board with decorative lamination on both sides	sqm	33.94	826.90
22	12.54x	Providing and fixing GI Clip in Metal Ceiling System of 600x600 mm module which includes providing and fixing 'C' wall angle of size 20x30x20 mm made of 0.5 mm thick pre painted steel along the perimeter of the room with help of nylon sleeves and wooden screws at 300 mm center to centre, suspending the main C carrier of size 10x38x10 mm made of G.I steel 0.7 mm thick from the soffit with help of soffit cleat 37x27x25x1.6 mm, rawl plugs of size 38x12 mm and C carrier suspension clip			

4- Registration No. :-

5- Time of completion :-

Signature of Contractor

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