

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-01

SHORT URGENT TENDER NOTICE NO. Engg./ 05(Civil) /2019-20

Sl. No.	Name of the Work :-	Annual Maintenance Contract (AMC) of Fire Extinguishers, Fire Alarm, Smoke Detector, Glow Sign Board & Fire Hydrant System for different Hospital Building at IGIMS, Patna		
1	Estimated Cost (In Rs.) :-	Rs. 11,08,500/-		
2	Earnest Money (In Rs.) :-	Rs. 22,200/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 2,500/-		
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.	Item Description	Unit	Qty.	Rate quoted by bidder

	Non Schedule Items			
	PART-A (AMC)			
1	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	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	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	CO₂ stored pressure wheel Type 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	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 – 50 Ltrs.	Each	14.00	

6	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 ISI Mark Refill (IS:4989) Part-II, Complete in all respect, Capacity – 50 Ltrs.	Each	3.00	
7	Fire Bucket, Capacity – 9 Ltr.	Each	20.00	
8	M.S. Fire Bucket Stand with G.I. sheet stand shade (Four bucket hanging facility in each stand)	Each	5.00	
9	Conventional automatic Fixed cum rate of rise temperature type Heat Detector, 12 / 24 volt D.C., visual alarm indicator (LED's) "Blink-Green" in stand by and "Study-Red" in alarm complete in all respect with base as required, EN / LPCB listed / approved	Each	28.00	
10	Conventional automatic Optical / Photoelectric type Smoke Detectors of photo-optic sensing chamber, 12 / 24 volt D.C., visual alarm indicator (LED's) "Blink-Green" in stand by and "Study-Red" in alarm complete in all respect with base as required, EN / LP	Each	732.00	
11	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	Addressable type Manual Call Points as per specifications. The manual call point should have an indicator, which should "blink" in stand by condition.	Each	87.00	
	(Make : Agni Suraksha (ASES), Safeway, System Sensor or its equivalent.)			
13	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	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	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	a. 80 mm dia.	Mtr.	12.00	
b	b. 100 mm dia.	Mtr.	130.92	
c	c. 150 mm dia.	Mtr.	145.01	
2	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	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	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	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	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 30+ x 24+ x 10+ (to house two length of canvas hose with couplings & branch pipe for external / internal hydrants)	nos	20.00	
7	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	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	AMC of 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 :-.			

a	· 80 mm dia.	Nos.	1.00	
b	· 100 mm dia.	Nos.	1.00	
10	AMC of C. I. Two way Fire brigade inlet breaching head as per IS:904 specification tested for 20 kg/cm2 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	AMC of dial type Pressure gauge IPS 100, with isolation cock and copper pipe at hydrant point	Nos.	21.00	
12	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	Providing & fixing M.S. 150 mm dia. Air cushion tank with air release valve, complete in all respect.	Nos.	1.00	
14	AMC of heavy duty PVC insulated, PVC Armored aluminum conductor cable including necessary support clamps and connection lugs complete in all respects.			
a	a) Power Cable 4 core x 25 Sqmm	Mtr.	129.80	
15	Terrace Pump : Supplying and fixing Kirloskar make horizontal end suction Pump, Model : DB . 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	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.			
a	Panel for Terrace Fire Pump	Nos.	1.00	
17	AMC of of PVC Water Tank of Capacity . 2000 Ltr., complete in all respect.	Nos.	12.00	
18	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	
19	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	
20	AMC of ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :			
a	25 mm nominal bore	each	10.00	
Advance Cardiac Centre				
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.			
1	TERRACE LEVEL - FIRE PUMP			
i	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./Cm ² delivery pressure for fire hydrant network.			
2	, 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 in each control panel.			
	One no 60 amps TP incoming MCCB with the following:			
i	0-500 volts 96 x96 square mm voltmeter with selector switch and control fuses- 1 SET			
ii	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 automatic operation of roof fire pumps.	Set	1.00	
2.1	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 :-			
2.1.1	150 mm dia	Each	2.00	
3	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	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 gauge 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	AMC 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	
5.1	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 trea			
	100 nominal bore	Meter	25.00	
5.4	AMC of Butterfly Valves with mating flanges generally as specified all complete.			
a)	150 nominal bore	Each	1.00	
6	AMC for laying cast iron non-return valve IS marked with flanges generally as specified complete.		-	
a)	150 nominal bore	Each	1.00	
7	AMC of C.I. flanged single air valves size 25mm with 25mm SS isolation valve etc. all complete.	Each	2.00	
8	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.		-	
a)	Note: a. Threaded joint upto 50mm diameter pipe.		-	

b)	Welded joint above 50mm diameter pipe.		-	
8.1	150 mm nominal bore (Class C)	Rm	5.00	
8.2	100 mm nominal bore (Class C)	Rm	165.00	
8.3	80 mm nominal bore (Class C)	Rm	18.50	
	SUBHEAD-VI(B) : PORTABLE FIRE EXTINGUISHERS & EXIT SIGNAGES WORKS (NON-SCHEDULED ITEMS)			
1	AMC of portable fire Extinguishers as described below:			
1.1	4.5 kg carbon dioxide extinguisher, IS marked, with high pressure discharge tube, horn, control valve, CCE approved cylinder	Each	8.00	
1.2	6 kg Mono ammonium phosphate (ABC) type cartridge operated extinguishers	Each	6.00	
1.3	2 kg Mono ammonium phosphate (ABC) type cartridge operated extinguishers	Each	4.00	
	SUBHEAD-VI-FIRE ALARM SYSTEM		-	
1	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	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	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	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	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	AMC of Analogue Addressable Response Indicator, approved by LPCB.	Nos	1.00	
34	AMC of ABC Clean Agent store pressure squeeze grip type fire exisingusher filled with NAF P-IV, complete in all respect	Each	40.00	
-	<u>Sub Total Amount Part (A)</u>	-	-	
-	<u>PART-B</u>	-	-	
1	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	each	25.00	

	ABC Powder, Complete in all respect, Capacity . 6 Kg.			
2	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 . 4.5 Kg.	each	68.00	
3	Refilling of CO2 stored pressure wheel Type 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	
4	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 . 50 Ltrs.	each	14.00	
5	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 . 50 Ltrs.	each	3.00	
6	Refilling of ABC Clean Agent store pressure squeeze grip type fire extinguisher filled with NAF P-IV, complete in all respect	Each	10.00	
	PART-C			
	Providing and Fixing of fire Extinguishers Accessories Rate :-			
1	Safety Lock for fire extinguishers	each	120.00	
2	Discharge horn for CO2 fire extinguishers	each	8.00	
3	Discharge pipe for CO2 fire extinguishers	each	8.00	
4	Discharge pipe for ABC dry powder fire extinguishers	each	15.00	
5	Wall Bracket for portable fire extinguishers	each	25.00	
6	Trolley for CO2 fire extinguishers	each	3.00	
7	Trolley for Water CO2 & Mechanical Foam 50 Ltrs. Capacity fire extinguishers	each	3.00	
8	Discharge pipe for Water CO2 & Mechanical Foam 50 Ltrs. Capacity fire extinguishers	each	4.00	
9	Squeeze grip valve for ABC & Clean Agent fire extinguishers	each	20.00	
10	Valve for CO2 fire extinguishers	each	8.00	
11	Smoke Detector & Fire Alarm System Rate :-			

- 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./ 05(Civil) /2019-20

Sl. No.	Name of the Work :-	Repair and Painting work of PG Hostel No. 01 & 02 and Boy's Hostel 03 at IGIMS, Patna		
1	Estimated Cost (In Rs.) :-	Rs. 6,94,000/-		
2	Earnest Money (In Rs.) :-	Rs. 13,900/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1,250/		
4	Time of completion :- (In Days)	30 Days		
5	Date, time & place for submission of Complete tender-	As Per NIT		
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT		
Sl. No.	Item Description Schedule items	Unit	Qty.	Rate
1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 meters lead. Of area 3 sqm and below .	Each	28.0	64.67
2	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	213.30
3	Supplying and filling in plinth with local sand under floors including, watering, ramming consolidating and dressing complete.	cum	30.00	238.60
4	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	140.00	277.50
5	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	14.00	4,033.00
6	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement :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	140.00	417.60

7	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	82.80
8	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repair scratches etc. Complete	Sqm	1487.53	8.10
9	Distempering with oil bound washable Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	Sqm	1487.53	27.20
10	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm	1487.53	31.70
11	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on old work	Sqm	221.48	45.20
12	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete:100 mm each 54.60	Each	10.00	47.50
13	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	195.50
14	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	150.20
b	150x10 mm	Each	10.00	67.80
15	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 Mortar 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	739.80
16	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS :15622 of approved make in colours such as white , Ivory , Grey , FumeRed , Brown, laid on 20 mm thick Cement mortar 1:4 (1 cement: 4coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	sqm	40.00	671.00
17	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	Sqm.	2.00	2,750.92

	per specification of E/S.			
18	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	20.00	2,959.00
19	Brick work with bricks of class designation 100A in foundations and plinth in : Cement mortar 1 :4 (1 cement: 4 coarse sand).	Cum	2.00	5,037.20
20	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	25.00	139.90
21	Providing and fixing factory made P.V.C. door frame of size 50x47 mm with a wall thickness of 5 mm, made out of extruded 5 mm rigid PVC foam sheet, mitred at corners and joined with 2 Nos. of 150 mm long brackets 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 the frame. 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	m	74.75	462.00
22	25 mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm X 25 mm or less as per requirement with an average wall thickness of 1 mm (\pm 0.3 mm). PVC foam end cap of size 23x10 mm are provided on both vertical edges to ensure the overall thickness of 25 mm. An M.S. tube having dimensions 19 mm x 19 mm and 1.0 mm (\pm 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutter are covered with an end-cap of the size 25mm X 11 mm. Door shutter shall be reinforced with special polymeric reinforcements as per manufacturer's specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the locations of hardware will be pasted at appropriate places	sqm.	13.50	2,263.20
23	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 (1 cement : 4 coarse 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	Area of slab over 0.50 sqm	Sqm.	4.97	3,699.10
24	Half brick masonry with bricks of class designation 100A in foundations and plinth in : cement mortar 1:4 (1 cement: 4 coarse sand)	Sqm.	8.40	596.80
25	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement-All work puto			

	plinth level			
a	1:1:5:3(1 cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	1.25	4,902.30
26	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	80.00	77.40
b	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	80.00	76.70
27	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	Lintels, beams, plinth bams, griders, bressumers and contilevers.	Sqm.	8.40	335.30
	WATER SUPPLY & SANITATION			
28	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap. 10 liters low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS:7231, with all fittings and fistures complete including cutting and making good they walls and floors wherever required.			
a	White Vitreous china orissa pattern W.C. pan of size 580x440mm with integral typepe foot rests.	Each	1.00	3,390.90
29	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	White vitreous china wash basing size 630X450 mm with a pair of 15 mm C.P. brass pillar taps.	Each	2.00	2,307.10
30	Providing and fixing P.V.C. Waste pipe for Kitchen sink or wash basin including P.V.C. waste fitting complete.			
	Semi rigid pipe			
a	32 mm dia	Each	50.00	86.20
31	Providing and fixing PTMT bib cock of approved quality and colour.			
a	15 mm nominal bore, 165 mm long, weighing not less than 110 gms	each	50.00	171.30
32	Providing and fixing PTMT pillar cock of approved quality and colour .			
a	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	23.00	183.50
33	Providing and fixing PTMT stop cock of approved quality and colour.			
a	15 mm nominal bore, 86 mm long, weighing not less than 88 gms	each	14.00	112.80
34	Providing and fixing uplasticised PVC connection pipe with brass ions			
a	45 cm length 15 mm nominal bore each	each	50.00	76.10
35	Providing and fixing P.V.C. low level flushing cistern with manually			

	controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.			
a	10 litre capacity - White	Each	3.00	860.40
36	Providing and fixing PTMT grating of approved quality and colour.Circular type125 mm nominal dia with 25 mm waste hole.	each	16.00	49.90
	Kitchen sink without drain board			
	470x420 mm bowl depth 178 mm each 2024.40	each	4.00	2,024.40
37	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	75 mm diameter	metre	70.25	147.40
38	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	Coupler			
i	75mm	each	10.00	246.20
b	Single tee with door			
i	75 mm	each	10.00	450.50
c	Band 87.5°			
i	75mm bend	each	10.00	85.10
ii	110mm bend	each	10.00	124.70
39	Providing and fixing PTMT soap dish holder having length of 138mm, breadth 102 mm height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	Each	16.00	122.10
40	Providing and fixing PTMT grating of approved quality and colour.			
a	125mm nominal dia with 25 mm waste hole.	Each	16.00	49.90
41	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.	25.00	359.30
42	Extra cost for carriage of Material			
a	Local sand (lead 2km P+1km K)	cum	32.10	262.05
b	Sone Sand (45 km from Koelwar)	Cum	12.84	878.40
c	Stone Aggregate ,(156 Km From Domchch, Koderma	Cum	18.51	2,564.53
d	Bricks (7P+ 1K)	%o	5.02	767.08
e	Difference of Cost of Bricks	%o	5.02	1,470.46
f	Difference of Cost of Cement	tonn	9.74	636.50

Quoted Rates:for schedule item

- a- ò ò ò ò ò ò % above
b- ò ò ò ò ò ò % below
c- ò ò ò ò 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 | :õ õ õ õ õ õ õ õ õ õ õ õ õ õ .. |
| 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./ 05(Civil) /2019-20

Sl. No.	Name of the Work :-	Repair and painting work of inside area of 100 Rooms of Girls Hostel at IGIMS, Patna		
1	Estimated Cost (In Rs.) :-	Rs. 6,13,700/-		
2	Earnest Money (In Rs.) :-	Rs. 12,500/-		
3	Cost of B.O.Q. (In Rs.) :-	Rs. 1,250/		
4	Time of completion :- (In Days)	30 Days		
5	Date, time & place for submission of Complete tender-	As Per NIT		
6	Date and time for opening of tender-(Technical Bid)-	As Per NIT		
7	Date & Time for opening of Price Bid of Technically Suitable bidders.	As Per NIT		
Sl. No.	Item Description Schedule Items	Unit	Qty.	Rate
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	213.30
2	Removing dry or oil bound distemper by scrapping, sand paper and preparing the surface smooth including necessary repari scratches tec. Gmplete	Sqm	5900.00	8.10
3	Distempering with oil bound washa ble Distemper of approved brand and manufacture to give an even shade .Old work (one or more coats)	Sqm	5900.00	27.20
4	Applying one coat of distemper primer of approved brand and manufacture on wall surface:Distemper primer	Sqm	5900.00	31.70
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.	200.00	82.80
6	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:One or more coats on old work	Sqm	968.58	45.20
7	Providing and fixing aluminium handles, ISI marked,	Each	30.00	47.50

	anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete: 100 mm each 54.60			
8	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	30.00	195.50
9	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	30.00	105.20
b	150x10 mm	Each	30.00	67.80
10	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868)transparent or dyed to required colour and shade, with necessary screwsetc.			
a	Twin rubber stopper	each	30.00	40.40
11	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931	Each	18.00	401.40
12	Providing and fixing brass stop cock of approved quality,			
a	20 mm nominal bore	Each	12.00	303.00
13	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:			
a	Float glass panes of thickness 4 mm	sqm.	10.00	620.30
14	Providing and fixing brass curtain rods of wall thickness 1.25 mm with two brass brackets fixed with brass screws and wooden plugs etc. wherever necessary complete			
a	20 mm diameter.	metre	269.50	236.10
15	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.			
a	10 litre capacity - White	Each	8.00	860.40
16	Providing and fixing PTMT grating of approved quality and colour. Circular type 125 mm nominal dia with 25 mm waste hole.	each	18.00	49.90
17	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	12.00	122.10

INDIRA GANDHI INSTITUTE OF MEDICAL SCIENCES, PATNA-14

BILL OF QUANTITY-04

SHORT URGENT TENDER NOTICE NO. Engg./ 04(Civil) /2019-20

Sl. No.	Name of the Work :-	Construction of Store Room for Gas Manifold in North Side of Mortuary Building at IGIMS, Patna		
1	Estimated Cost (In Rs.) :-	Rs. 4,93,600/-		
2	Earnest Money (In Rs.) :-	Rs. 9,900/-		
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.	Item Description	Unit	Qty.	Rate

Schedule Items

1	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)	<i>Cum</i>	8.82	4,902.30
2	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)	<i>cum</i>	4.20	4,033.00
3	Supplying and filling in plinth with local sand under floors including, watering, ramming consolidating and dressing complete.	<i>cum</i>	25.20	238.60
4	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,	<i>sqm</i>	42.00	277.50
5	Brick work with bricks of class designation 100A in foundations and plinth in :			

a)	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	15.25	4,799.20
6	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.			
a	Thermo-Mechanically Treated bars TMTC-500-8mm dia	kg	95.00	77.40
b	Thermo-Mechanically Treated bars TMTC-500-10mm dia.	kg	150.00	76.70
c	Thermo-Mechanically Treated bars TMTC-500-12mm dia.	kg	150.00	75.20
5	Centring and shuttering including strutting,propping etc. and removal of form for.			
a	Lintels, beams, plinth bams, griders, bressumers and contilevers.	sqm	43.00	335.30
6	Cement plaster in course sand 12 mm cement plaster of mix:1:4(1 cement :4 coarse sand)	Sqm.	195.00	139.90
7	15 mm cement plaster on rough side of single or half brick wall of mix1:4(1 cement: 4 coarse sand)	Sqm.	195.00	161.90
8	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	245.00	114.20
10	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coar of approved steel primer, welded and bolted including special shaped washers etc. Complete 10.16.1 Hot finished welded type tubes	Kg.	624.00	88.60
11	PProviding and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm.	56.00	575.80
12	Distempering with oil bound washa ble distemper of approved brand and manufacture to give an even shade .New work (two or more coats) over and including priming coat with cement primer	sqm	195.00	83.40

