

## **MAHATMA GANDHI MISSION TRUST** MGM INSTITUTE OF HEALTH SCIENCES, CENTRAL PURCHASE DEPARTMENT (CPD)

Plot 1 & 2, Sector -1 Kamothe, Navi Mumbai 410209

eTender of Chiller Plant Relocation from 7th Floor Terrace to Ground Floor at MGM Hospital & Reasarch Centre, CBD Belapur

Tenders invited from reputed Manufactures or their authorised distributors / dealers of Chiller Plant Relocation from 7th Floor Terrace to Ground Floor at MGM Hospital & Reasarch Centre, CBD Belapur, in the format given below:

Name & Address of Vendor:		

## SCHEDULE OF QUANTITIES (BOQ) FOR CHILLER PLANT RELOCATION WORKS

SR. NO.	DESCRIPTION OF WORKS	Required Make	Make & Model	Total Qty	UNIT	Unit Supply (Rs.)	Total Amount Supply (Rs.)	Unit Rate Labour ( Rs.)	Total Amount Labour(Rs.)	Total Amount Supply + Labour(Rs.)	GST %
E	ELECTRICAL WORKS FOR HVAC:										
	New Electrical Panel for Chillers, Pumps, Fans at Ground Level										
	Supply, Installation, Testing & Commissioning of Power Distribution										
	Panel for HVAC comprising of fully compartmentalised cubicle type										
	panel, as per specifications and complete with :										
	i) Tinned Al. Busbars										
	ii) 7 tank pre-treatment, Panel with <b>IP 65</b> construction with canopy										
	iii) Oven baked epoxy paint finish or powder coated										
	iv) Incoming and outgoing feeders										
	v) Indicating and measuring instruments										
	vi) Interconnections, interlocking, earthing etc.										
	vii) Starters & control panel										
	viii) Incomer to this panel shall have a changeover switch before the main MCCB for accepting two separate incoming power supply.										
	Panel Cost should include also OLP, SPP, On/ Off push buttons with										
	On / Off / Trip indications, 3nos. non polarised NO-NC contacts tripping on signal from fire dampers / fire alarm panel & BMS.										
1.1	HVAC Main MCC Panel with IP 65 construction (suitable for locating			1	Set		0				
	exposed at GF & provided with Canopy)			=							
	(Incoming Power with earthing shall be provided by Elec.contractor. Incomer suitable for 480 KW / 1000 A ACB TPN / 50 KA $$ x 1no.)										

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	(ii) Outgoing										
	a) Feeders for Air cooled chillers 210 kW, 400 A TPN MCCB 36 KA X 3										
	Nos. (2 working + 1 Stand by).										
	b) Feeders with Starter & Control Panel for Primary Pumps 11.0 kW, 63 A TPN MCB 10KA X 3 Nos.(2 working + 1 Stand by).										
	c) Feeders with Starter & Control Panel for Secondary Pumps 30 kW, 100 A TPN MCB 10KA X 3 Nos.(2 working + 1 Stand by). Feeders to include / house the secondary pump controller as well.										
	d) Feeder for Fans 3 kW, 25 A TPN MCB 10KA X 1 No.										
	e) Feeder for Fans 2.2 kW, 20 A TPN MCB 10KA X 1 No.										
	f) Feeder for Fans 2.2 kW, 20 A TPN MCB 10KA X 2 Nos.										
	g) Spare feeder 400 A TPN MCCB 36 KA X 1 No.										
	h) Spare feeder 100 A TPN MCB 10KA X 1 No.										
	i) Spare feeder 63 A TPN MCB 10KA X 1 No.										
	i) Spare feeder 25 A TPN MCB 10KA X 1 Nos.										
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2.0	Electrical Cabling	Polycab									
	Cabling, Earthing, Terminations & Lugging for Chillers, Pumps, AHUs & Fans										
	Cables shall be as per Technical Specifications and XLPE insulated type										
	armoured with overall PVC sheath unless otherwise stated.										
	Power cabling of copper armoured cable from control panel to motor										
	with double compression gland & Copper armoured Control cabling										
	with hookup to its controller. (i.e Control cabling for 2 way valve										
	operation between sensor, controller, transformer and actuator to be included)										
	Cabling rate to include end terminations, termination, lugging etc. as per specifications.										
	(All structural / supporting work to be included in vendors scope of work.)										
	All remote Control Cabling from Remote Panel to each HVAC										
	equipment. Fire Cable shall be provided upto each AHU Panel by FAS										
	agency, further looping to respective AHU motor and fire dampers shall be in HVAC scope.										
	Control Cabling & Termination for each Chiller upto the control panel.										
	Control Cabling & Termination for each Pump upto the control panel.										
	Control Cabling & Termination for each AHU, heater bank & humdifier field mounted accessories upto the control panel.										
	Power cabling from panel upto respsective Chiller.										

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	Power cabling from panel upto respsective pump.										
	Power cabling from each AHU, Heater & Humidifier Panel to each AHU motor / heater bank / humdifier.										
	Cabling & looping for fire damper and tripping of AHU / Fan motors based on fire signal from FAS panel.										
2.1	Power Cabling (XLPE)										
5.1.1	3.5C x 400 sq.mm Al. armoured conductor cable, as per specs.			0	RMT		0				
5.1.2	3.5C x 300 sq.mm Al. armoured conductor cable, as per specs.			90	RMT		0				
5.1.3	3.5C x 240 sq.mm Al. armoured conductor cable, as per specs.			0	RMT		0				
5.1.4	3.5C x 185 sq.mm Al. armoured conductor cable, as per specs.			0	RMT		0				
	4C x 25 sq.mm Cu. Armoured conductor cable, as per specs.			40	RMT		0				
5.1.5	4C x 16 sq.mm Cu. armoured conductor cable, as per specs.			75	RMT		0				
5.1.6	4C x 10 sq.mm Cu. armoured conductor cable, as per specs.			0	RMT		0				
5.1.7	4C x 6 sq.mm Cu. armoured conductor cable, as per specs.			0	RMT		0				
5.1.8	4C x 4 sq.mm Cu. armoured conductor cable, as per specs.			0	RMT		0				
5.1.9	4C x 2.5 sq.mm Cu. armoured conductor cable, as per specs.			0	RMT		0				
5.1.10	3C x 2.5 sq.mm Cu. armoured conductor cable, as per specs.			0	RMT		0				
2.2	Control cabling										
	All Cabling rates to include End terminations as per specifications. Cables shall be as per Technical Specifications and XLPE insulated type unless otherwise stated.										
5.2.1	2C x 1.5 sq.mm Cu. Armoured conductor cable, as per specs.			200	RMT		0				
5.2.2	2C x 2.5 sq.mm Cu. Armoured conductor cable, as per specs.			0	RMT		0				
5.2.3	5C X 2.5 sq.mm Cu. Armoured conductor cable, as per specs			0	RMT		0				
2.3	Earthing										
2.3	Supply, Installation, Testing and Commissioning of:										
E 2 1	6 / 8 / 10 SWG GI double earthing			60	RMT		1				
	25 x 3 mm GI double earth strip			0	RMT		0				
	50 x 6 mm GI double earth strip			50	RMT		0				
3.3.3	30 x 0 mm or double earth strip			30	KIVII		0				
2.4	Cable Trays										
	Supply and installation of GI perforated type cable trays of the following sizes fabricated out of perforated hot dip galvanised MS sheets of minimum 2 mm thick with 75 mm flange to be installed										
	horizontally or vertically.  The cable tray shall be complete including cost of bends, elbows, cross, tees, reducers etc as per drawings/ site condition and rate shall include cost of anchor fasteners, screws, nuts, bolts and misc. other fixing hardware painting of support structure etc as required.										

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	i) Structural steel such as ISMC, ISA, flats, rods etc to be used for support shall be included in this item.										
	ii) The cable tray shall be factory built. Bidder shall include in his price, required numbers of Tees, Crosses, Bends, Elbows etc as required as per actual site conditions.										
	Ladder Type G.I. Cable Tray with GI Supports :										
5.4.1	600 mm wide			60	RMT		0				
5.4.2	450 mm wide			30	RMT		0				
5.4.3	300 mm wide			20	RMT		0				
5.4.4	200 mm wide			60	RMT		0				
5.4.5	150 mm wide			150	RMT		0				
5.4.6	100 mm wide			50	RMT		0				
	TOTAL OF 'E' ELECTRICAL WORK CARRIED OVER TO SUMMARY						0				
	TOTAL OF EXCISE DUTY ( %)			To be included in respective items as applicable							
	TOTAL OF GST AMOUNT ( %)										
	TOTAL OF ANY OTHER TAXES AMOUNT ( %)										
					ALI	. INCL. TOTAL					

Note: Rates quoted shall be basic rates inclusive of Excise Duty\* and shall be inclusive of overheads and profit, All taxes, duties, levies etc. shall be