

PROJECT: CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI								
BOQ FOR BMS WORKS								
Sl. No.	DSR 2012 Item No. / NDSR	Description	Qty	Unit	Rate (In Rs.)	Rate (In Rs.)	Amount (In Rs.)	Amount (In Rs.)
					In Figures	In Words	In Figures	In Words
		Central Works Station :						
1	NDSR	Supply,Installation,testing and commissioning of Central Works Station and as per manufacturer's specifications & as directed by Engineer-in-charge.						
1.1	NDSR	Intel I core machine with 3.0 GHz speed, 2 GB RAM 1 TB HDD, Multimedia extenal modem as per manufacturer's specifications & as directed by engineer-in-charge. This should be server base suitable for data points as required.	1	No.				
1.2	NDSR	Colour Monitor SVGA - 21 inch	1	No.				
1.3	NDSR	132 column 240 CPS printer (Alarm and report)	1	No.				
1.4	NDSR	Optical Mouse	1	No.				
1.5	NDSR	1KVA UPS with 20 minutes battery backup	1	No.				
2	NDSR	Software and System Interface Units :						
2.1	NDSR	Supply,Installation,testing and commissioning of the following Web Based software for BAS as per specifications. Developing,testing and commissioning of the software for the building automation system.	1	No.				

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2.2	NDSR	Supply,Installation,testing and commissioning of all necessary software and hardware for the interface of the following system/equipment including providing necessary integrators/modules (modbus Bacnet/Lonworks output to be provided by other vendors)						
a)	NDSR	Chilling Machines	1	Lot				
b)	NDSR	VAV Boxes	1	Lot				
c)	NDSR	AHU VFDs	1	Lot				
3		Supply,Installation,testing and commissioning of following controllers as per the manufacturer's specifications & as directed by Engineer -in-charge:. Standalone intelligent lonworks based controllers with 32 bit microprocessor, real time clock and EEPROM as per the specifications. The controller shall be housed in a vandal proof, lockable and secure MS cabinets to be supplied along with controllers.						
3.1	NDSR	DDC For HVAC System (Chillers, Cooling Tower, AHUs, Ventilation Fans, Tanks)	1	Lot				
4	NDSR	Supply, Installation, testing & commissioning of Web Based system interface modules consisting of gateways, other interface units as required as per specifications. The units shall be housed in vandal proof lockable and secure wall mounted MS cabinets to be supplied along with the controllers.	1	Lot				

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5	NDSR	Supply, Installation, testing & commissioning of Hand Held Portable Operator Terminals Sensors and Field Devices	1	Lot				
6	NDSR	Supply, Installation, testing and commissioning of the following sensors/transmitters/transducers/ field devices as per the manufacturer's specifications & as directed by engineer-in-charge.						
6.1	NDSR	Immersion type temperature sensors for measuring chilled water supply and return /condensate water supply & return temperature in the Range 32F-160F	6	Nos.				
6.2	NDSR	Duct type temperature sensor for measuring supply air temperature at the AHUs/HRV units of the (Range 45°F-150°F)	14	Nos.				
6.3	NDSR	Out side air temperature and RH sensor for measuring the outside air temperature (35°F-130°F) and humidity	1	Nos.				
6.4	NDSR	Differential Pressure switch across the AHUs & Basement Ventilation Fans for indicating the filter status (pressure differential 2mm-15mm)	18	Nos.				
6.5	NDSR	Differential Pressure switch across the AHUs & Ventilation Fans for indicating the fan status of pressure differential range 10mm-50mm.	18	Nos.				
6.6	NDSR	Level switches for indicating water levels in sumps /tanks/Cooling Tower	4	Nos.				
6.7	NDSR	Differential Pressure switch for pumps status	4	Nos.				
6.8	NDSR	Room Temperature + RH Sensor	1	Nos.				

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6.9	NDSR	Modulating typer Damper Actuators - 5 Nm	5	Nos.				
6.10	NDSR	Duct type Cabon Dioxide (CO2) Sensors for AHUs	5	Nos.				
6.11	NDSR	Occupancy Sensor suitable for controlling of VAV Boxes & with one extra auxiliary output	11	Nos.				
6.12	NDSR	Cabon Monoxide (CO) Sensors for Basements	12	Nos.				
6.13	NDSR	Water Flow Switch	2	Nos.				
6.14	NDSR	Differential Pressure Sensor	11	Nos.				
7	NDSR	Cable & Conduits						
	NDSR	Supply,Installation,testing and commissioning of the following cables as per manufacturer's specifications & as directed by Engineer-in-charge :						
7.1	NDSR	Signal cable (2 Core 1.5 Sqmm, FR PVC Insulated, PVC sheathed ATC conductor multistranded).	3000	Rmt				
7.2	NDSR	Communication cable (2 x 1.5 Sq. mm., stranded tinned Cu conductor, flexible, PVC Sheilded type).	2000	Rmt				
7.3	NDSR	Power Cable, 3 Core 1.5 Sqmm, FR PVC Insulated, PVC Sheathed ATC conductor multistranded, cable for Powering DDC , Actuators etc. as manufacturer's specifications & as directed by Engineer-in-charge:	100	Rmt				

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7.4	NDSR	Cat 5 / Cat 6 Cable	100	Rmt				
8	NDSR	Supply,Installation,testing and commissioning of the following conduits for running cables manufacturer's specifications & as directed by Engineer-in-charge :						
8.1	NDSR	PVC Conduit (25 mm)	3000	Rmt				
8.2	NDSR	PVC Conduit (20 mm)	1800	Rmt				
9	NDSR	GS Trunking						
		Supply,Installation,testing and commissioning of 2 mm thick galvanised steel trunking of the following complete with angle iron support/hangers etc. manufacturer's specifications & as directed by Engineer-in-charge :						
9.1	NDSR	40x300x40 mm	125	Rmt				
9.2	NDSR	40x200x40 mm	50	Rmt				
9.3	NDSR	40x150x40 mm	50	Rmt				
			Total (In Rs.)					