

Technical Specification & Scope of work for supply, installation and commissioning of 50 CCTV surveillance cameras

S.No.	Make	Description	UoM	Qty	Make offered by Vendor	Bidder acceptance/ Remarks
1.0	CP-Plus/ Axis/Dahua/Verint/Honeywell/Panasonic	3MP/ 1/3" progressive Scan CMOS 3M(2046×1536)1080P(1920×1080) / 720P(1280×720) / D1(704×576/704×480) / CIF(352×288/352×240) 0. 1Lux/F1.6 (Color) ;0Lux/F1.6(IR on), 3.6mm 20-30 Mtrs Range Distance IP based camera	Each	44		
1.1	CP-Plus/ Axis/Dahua/Verint/Honeywell/Panasonic	2MP/1/2.8" CMOS Image Sensor, IP based camera, Powerful 30x optical and 16x Digital zoom, DWDR, Day/Night (ICR), Ultra DNR, upto 255 Presets, 8 Tour, 5 Pattern, 5 Auto Scan, Max 240 Degrees pan speed, 360 Degrees endless pan rotation, IR Range of 100 Mtr, Built-in 2/1 alarm in/out, IP66. Focal Length 4.3mm- 129mm	Each	6		
1.2	CP-Plus/ Axis/Dahua/Verint/Honeywell/Panasonic	8 channel HD NVR with 2 Sata Options supports upto 2 SATA ports (2HDDs) up to 8TB with free DDNS Support	Each	7		
1.3	CP-Plus/ Axis/Dahua/Verint/Honeywell/Panasonic	8 channel HD NVR with 4 Sata Options supports upto 4 SATA ports (4HDDs) up to 16TB with free DDNS Support	Each	2		
1.4	Seagate/Western Digital/Sony	2 TB Hard Disk for storage upto 15 days for 45 cameras	Each	7		

1.5	Seagate/Western Digital/Sony	4 TB Hard Disk for storage upto 90 days for 5 cameras	Each	6		
1.6	D-Link /Net gear/HP	8 port POE Switch	Each	12		
1.7	D-Link/Digilink/Molex/Ponduit/Systimax/Tyco	Cat 6 Lan Cable for Network Installation (In Mtrs)	Mtrs	1000		
1.8	Finolex	Power Supply Cable	Mtrs	600		
1.9	D-Link /Molex	RJ 45 Connectors	Each	100		
2.0	Make:ISI Certified	Supply of HDPE Pipe for Network Establishment	Mtrs	1000		
2.1	Micromax/LG/Samsung	43 Inches LED with Bluetooth Option	Each	6		
2.2	Make:ISI Certified	24 U Rack for Mounting the NVRs into it with required accessories	Each	1		
2.3	Service	Installation & Commissioning Charges of CCTV system	Set	1		
2.4	Service	Digging and re soiling of the land for the Network Establishment	Mtrs	1000		

Other Terms and Conditions			
	Description	Bidders Acceptance Yes/NO	Remarks
3.0	Vendor has to choose one of the makes specified above for the supply of all the material from s.no 1.0 to 2.4 and vendor has to write in the last column provided for that. If Vendors offering other than the above makes , then the offer will be rejected outrightly.		
3.1	Nearest Power supply and Network source will be provided by BHEL. Vendor has to lay the cable from that location to the cameras etc in the HDPE pipe.		
3.2	The scope of works includes successful installation and commissioning of the above CCTV system of 50 cameras completely and vendor will be responsible for inclusion of any necessary material which is required so as to complete the system.		
3.3	The NVR shall come with the provision for scheduled video back up to an external server (external server in BHEL scope) in AVI or MPEG format with time stamp for offline backup.		
3.4	The Monitoring screens to be provided in control room on wall mount structure with required accesories and with the 6 number of monitors as in the scope, with proper software/harware shall be suitable to view all the cameras (50 Nos)at present. It is required that the software provided shall be suitable for future expansion also to view multiple cameras may be upto 100 cameras.		
3.5	Training shall be provided by the vendor to the BHEL or BHEL nominated personnel for reteiving data from NVR's, recording data into CD's, tapes, resolving any technical issues etc.		

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4.0	Pre Qualification Criterion for CCTV system: 1. Only those bidders who have supplied and commissioned CCTV system comprising of minimum 25 number of cameras (50% of the present requirement) or above for two different organizations and working satisfactorily for at least one year after commissioning should quote. Performance certificates of CCTV system 25 number of cameras or above shall clearly indicate satisfactory performance for a minimum period of one year from the date of commissioning. Performance Certificates issued by their own sister concern / bidder's organization shall not be considered. Note : 1) Tender documents will be evaluated based on the above pre qualification criterion. Bidders have to submit performance certificates (from customers where they have supplied and commissioned) with supporting documents like Purchase order etc, to confirm that the order has been executed up to the customers satisfaction. Bidder shall also provide contact number, email etc of customer, from whom performance certificate obtained and produced for tender purpose. BHEL will re verify the certificate. 2) Any offer not satisfying the above criterion, will be technically disqualified.		
5.0	AMC clause : Vendor has to quote a price in the price bid for Annual Maintenance cost (AMC) , which requires to keep the cctv system working to its full efficiency and uptime of 99% for next 3 years after warranty period of 2 years (2 years warranty and 3 years AMC , a total of 5 years) . The price to be quoted in lumpsum amount per year (1st year, 2nd year, 3rd year) plus taxes in the price bid provided as separate row. This AMC price will be considered to decide L1 price in present awardal of work. However two separate orders , i.e, one for purchase order for supply and installation of CCTV system and another for AMC will be given to the successful bidder. All the material required during AMC will be included in the scope of bidder except cables. Penalty will be levied during AMC period if down time is more than 1 week @0.5% per week maximum upto 10% per annum for the items/system effected.		