

### Bid Document

Bid Details	
Bid End Date/Time	08-02-2019 12:00:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	30 (Days)
Ministry/State Name	Ministry Of Steel
Department Name	Na
Organisation Name	N/a
Office Name	Hyderabad
Total Quantity	60
Item Category	Video Recorder for CCTV System , Video Recorder for CCTV System , Camera for CCTV System
Experience with Gov. Required	2 Year (s)
MSE Exemption For Years Of Experience And Turnover	Yes

### Video Recorder For CCTV System ( 15 )

#### Technical Specifications

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Allowed Values
TYPE	<b>Type of Recording Device</b>	DVR	DVR
	<b>IP Camera Support</b>	Yes	Yes
	<b>PTZ Camera control Support</b>	Yes	Yes, No
	<b>Housing construction</b>	Alluminium	Alluminium, Plastic
	Mounting	Rack Mounted	*
	Rack Mount configuration	1U	*
	Capability of Recorder to Work with Other Makes of CCTV Cameras (ONVIF	Yes	*

	support)		
VIDEO	<b>Number of Video Input Channels</b>	16	16
	<b>Number of Non-IP based Video input Channels for HVR</b>	NA	NA
	<b>Number of IP based Video input Channels for HVR</b>	NA	NA
	<b>Number of Video Output Channels</b>	16	16
	<b>Recording Resolution</b>	HD (1280 x 720)	HD (1280 x 720)
	Supported Compression Technique	H.264	*
	Maximum Number of cameras to be viewed on a single display	16	*
	Total number of simultaneous local views	4	*
	Simultaneous Monitoring Connections for All Cameras (Users in Local Network for Client Connection)	16	*
	Recording Speed for all channels (fps)	25	*
	Minimum Through put (Mbps)	96	*
	Display Image Rate	Real time per channel	*
	AUDIO	Audio Support	Yes
Audio Input		1	*
Audio Output		1	*
Audio Compression		G.726,G.711,G.722.1,A-Law,U-Law,MP2L2,AAC,NA	*
Minimum Number of Simultaneous Channels for Two-way Audio Support		1	*
SECURITY	Type of Encryption	HTTPS (SSL/TSL),HTTP (SSL/TSL),WPA,WPA2,TKIP,NA	*
	Multi Level User ID / Password	Yes	*

ALARM	Alarm Support	Yes	*
	Alarm Input	1	*
	Alarm Output	1	*
	Pre / Post Alarm Buffer	Yes	*
	Pre-Alarm Recording	60	*
	Post-Alarm Recording	60	*
	Video Content Analytics (VCA)	Trip-wire Detection, Motion Detection, Crossing line, Intrusion Detection, Face Recognition, Object counting, Tampering, Object Removal, Number Plate Recognition, NA	*
NETWORK PROTOCOLS / INTERFACE / OPERATING SYSTEM	Operating System Supported	Windows, MAC, Linux	*
	Supported Network Protocols	UDP, SNMP, IGMP, DHCP, RTP, RSTP, HTTP, HTTPS, DNS, DDNS, RTSP, RTCP, NTP, UPnP, SMTP, FTP, ICMP, QoS, TCP/IP, NA (for DVR)	*
	Supported Interface	Ethernet, Wifi, HDMI, VGA, CVBS, Bluetooth, USB, RS 232, RS-422, RS-485	*
	Physical Layer of Ethernet	10/100/1000 Base TX, NA	*
	Number of Ethernet Ports	1	*
	Number of HDMI Ports	1	*
	Number of VGA Ports	1	*
	Number of CVBS Ports	1	*
	Number of USB Ports	1	*
	Number of Serial Ports	0	*
	Number of PoE Ports	0	*
	Supported SIM Slot	NA	*
	Number of SIM Slots	0	*
FEATURES	Video Loop Support	Yes	*
	Video Recorder supports recording on NAS Directly	Yes	*
	Remote Administration (Remote Configuration And Status Using Web	Yes	*

	Based Tool)		
	System Update (Remote System Update Over Network Using Web Client)	Yes	*
	PC Client (PC Application Client With A Channel Recording Feature Support)	Yes	*
	Web Client (Viewer through HTTP system configuration)	Yes	*
	On Screen Display (In English)	Yes	*
	Drivers / Compatible Software (Wherever Applicable) Part Of Supply	Yes	*
	Recording schedule support	Yes	*
	Bandwidth Control	Yes	*
	Camera Notification	Spot (POP up Window) on Event,SMS,E-mail	*
	Network transmission Speed	Real time display @ D1 resolution	*
	Other features, if any	HARD DRIVE SURVEILLANCE INCLUDED	*
PLAYBACK / VIEW / MANAGEMENT	Search	Date,Time,Event,Log, Motion,Bookmarks	*
	Bookmarks	Forward,Backward,adjustable playback speed,Full Screen,Next Camera,Previous Camera,Repeat	*
	Page preview	Multi Monitor Support,Video Window,Electronic Map on two separate monitors	*
	Total Management	Group add,Delete,Group management	*
	Camera	Add,Edit,Delete,Use Master account,Use Specific account	*
STORAGE	Internal Hard Drive Interface	SATA II	*

	Number of Hard Disks (inclusive in the scope of supply)	2	*
	Storage Capacity of each Hard Disk (TB)	2	*
	Total Storage Capacity(TB)	2	*
	Internal Storage Expandable upto (TB)	8	*
	Number of Hard Disks supported	2	*
	Redundancy Option	RAID 1	*
POWER SUPPLY	Power Input	230 ± 10%, 50Hz,12 V DC,24 V DC	*
	Power Consumption	12	*
	Suitable Adapter to be Supplied to Make the Equipment Work on 230 V ± 10 %, 50 Hz	Yes	*
	Redundant Power Supply	Yes	*
OPERATING CONDITIONS	Minimum Operating Temperature	0	*
	Maximum Operating Temperature	55	*
	Relative Humidity Non Condensing at 40 deg C	80	*
WARRANTY / SERVICES	<b>Warranty</b>	1	1, 2, 3, 4, 5
	<b>Time for Replacement of Defective Product During Warranty Period</b>	72	12, 24, 36, 48, 72, 96
ENVIRONMENTAL / CERTIFICATION	Availability of facility and infrastructure for verification of all the parameters, features and capability with the Seller	No	*
	Conformity to Dry Heat test at Specified Maximum Operating Temperature for 16 hours as per IS :9000 latest	No	*
	Conformity to Damp heat at 40 degree C -	No	*

	95% RH (cyclic test): two cycles of 16+8 hours as per IS: 9000 latest		
	Conformity to Cold test at Specified Minimum Operating Temperature for 4 hours as per IS: 9000 latest	No	*
	Availability of Test Report from Central Govt/NABL/ILAC accredited lab to prove conformity to specification	No	*
	Test Report Number and Date	NA	*
	Name and Address of Test Lab	NA	*
	Certification	NIL	*
LIST OF ITEMS	List of Items and Quantity of each item included in the offer	1 ADOPTER, 1 DVR	*

\* Bold specifications are the golden parameters.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Venkateswarlu Bandi	494553,NMDC LTD, BACHELI COMPLEX,BAILADILA, BACHELI PO, CHATTISGARH	15	30

#### Video Recorder For CCTV System ( 15 )

##### Technical Specifications

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Allowed Values
TYPE	<b>Type of Recording Device</b>	DVR	DVR
	<b>IP Camera Support</b>	Yes	Yes
	<b>PTZ Camera control Support</b>	Yes	Yes, No
	<b>Housing construction</b>	Plastic	Alluminium, Plastic

	Mounting	Rack Mounted	*
	Rack Mount configuration	NA	*
	Capability of Recorder to Work with Other Makes of CCTV Cameras (ONVIF support)	Yes	*
VIDEO	<b>Number of Video Input Channels</b>	8	8
	<b>Number of Non-IP based Video input Channels for HVR</b>	NA	NA
	<b>Number of IP based Video input Channels for HVR</b>	NA	NA
	<b>Number of Video Output Channels</b>	1	1, 2, 4, 8, 16, 32, 64
	<b>Recording Resolution</b>	HD (1280 x 720)	HD (1280 x 720)
	Supported Compression Technique	H.264	*
	Maximum Number of cameras to be viewed on a single display	8	*
	Total number of simultaneous local views	2	*
	Simultaneous Monitoring Connections for All Cameras (Users in Local Network for Client Connection)	4	*
	Recording Speed for all channels (fps)	25	*
	Minimum Through put (Mbps)	48	*
	Display Image Rate	Real time per channel	*
AUDIO	Audio Support	Yes	*
	Audio Input	1	*
	Audio Output	1	*
	Audio Compression	G.726	*
	Minimum Number of Simultaneous Channels for Two-way Audio Support	1	*

SECURITY	Type of Encryption	HTTPS (SSL/TSL)	*
	Multi Level User ID / Password	Yes	*
ALARM	Alarm Support	Yes	*
	Alarm Input	1	*
	Alarm Output	1	*
	Pre / Post Alarm Buffer	Yes	*
	Pre-Alarm Recording	10	*
	Post-Alarm Recording	20	*
	Video Content Analytics (VCA)	Motion Detection	*
NETWORK PROTOCOLS / INTERFACE / OPERATING SYSTEM	Operating System Supported	Windows,MAC,Linux	*
	Supported Network Protocols	UDP	*
	Supported Interface	Ethernet,HDMI,VGA,USB	*
	Physical Layer of Ethernet	10/100/1000 Base TX	*
	Number of Ethernet Ports	1	*
	Number of HDMI Ports	1	*
	Number of VGA Ports	1	*
	Number of CVBS Ports	0	*
	Number of USB Ports	1	*
	Number of Serial Ports	0	*
	Number of PoE Ports	0	*
	Supported SIM Slot	NA	*
	Number of SIM Slots	0	*
FEATURES	Video Loop Support	Yes	*
	Video Recorder supports recording on NAS Directly	Yes	*
	Remote Administration (Remote Configuration And Status Using Web Based Tool)	Yes	*
	System Update (Remote System Update Over Network Using Web Client)	Yes	*
	PC Client (PC Application Client With	Yes	*



	A Channel Recording Feature Support)		
	Web Client (Viewer through HTTP system configuration)	Yes	*
	On Screen Display (In English)	Yes	*
	Drivers / Compatible Software (Wherever Applicable) Part Of Supply	Yes	*
	Recording schedule support	Yes	*
	Bandwidth Control	Yes	*
	Camera Notification	Spot (POP up Window) on Event,SMS,E-mail	*
	Network transmission Speed	Real time display @ D1 resolution	*
	Other features, if any	8ch dvr with 1tb hard disk & required company authorization certificate	*
PLAYBACK / VIEW / MANAGEMENT	Search	Date,Time,Event,Log, Motion,Bookmarks	*
	Bookmarks	Forward,Backward,adjustable playback speed,Full Screen,Next Camera,Previous Camera,Repeat	*
	Page preview	Multi Monitor Support,Video Window,Electronic Map on two separate monitors	*
	Total Management	Group add,Delete,Group management	*
	Camera	Add,Edit,Delete,Use Master account,Use Specific account	*
STORAGE	Internal Hard Drive Interface	SATA I	*
	Number of Hard Disks (inclusive in the scope of supply)	1	*
	Storage Capacity of each Hard Disk (TB)	1	*
	Total Storage	1	*

	Capacity(TB)		
	Internal Storage Expandable upto (TB)	4	*
	Number of Hard Disks supported	1	*
	Redundancy Option	RAID 0	*
POWER SUPPLY	Power Input	12 V DC	*
	Power Consumption	21	*
	Suitable Adapter to be Supplied to Make the Equipment Work on 230 V $\pm$ 10 %, 50 Hz	Yes	*
	Redundant Power Supply	Yes	*
OPERATING CONDITIONS	Minimum Operating Temperature	-10	*
	Maximum Operating Temperature	55	*
	Relative Humidity Non Condensing at 40 deg C	90	*
WARRANTY / SERVICES	<b>Warranty</b>	1	1, 2, 3, 4, 5
	<b>Time for Replacement of Defective Product During Warranty Period</b>	96	12, 24, 36, 48, 72, 96
ENVIRONMENTAL / CERTIFICATION	Availability of facility and infrastructure for verification of all the parameters, features and capability with the Seller	Yes	*
	Conformity to Dry Heat test at Specified Maximum Operating Temperature for 16 hours as per IS :9000 latest	Yes	*
	Conformity to Damp heat at 40 degree C - 95% RH (cyclic test): two cycles of 16+8 hours as per IS: 9000 latest	Yes	*
	Conformity to Cold test at Specified Minimum Operating Temperature for 4 hours as per IS:	Yes	*

	9000 latest		
	Availability of Test Report from Central Govt/NABL/ILAC accredited lab to prove conformity to specification	Yes	*
	Test Report Number and Date	NWGQ.E483958, 03/08/2017	*
	Name and Address of Test Lab	Under Writers Laboratories, 2600 North west Lake road Camas	*
	Certification	FCC,CE,UL,CB	*
LIST OF ITEMS	List of Items and Quantity of each item included in the offer	na	*

\* Bold specifications are the golden parameters.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Venkateswarlu Bandi	494553,NMDC LTD, BACHELI COMPLEX,BAILADILA, BACHELI PO, CHATTISGARH	15	30

#### Camera For CCTV System ( 30 )

##### Technical Specifications

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Allowed Values
CAMERA TYPE	<b>Type of Camera Housing</b>	BULLET CAMERA	DOME CAMERA, BOX CAMERA, BULLET CAMERA
	<b>IP Camera</b>	No	Yes, No
	<b>PTZ Camera</b>	No	Yes, No
IMAGE SENSOR	<b>Image Sensor Type</b>	CMOS	CMOS
	<b>Image Sensor Size</b>	0.34	1, 0.67, 0.5, 0.34, 0.25, 0.357, 0.37, 0.4 Or higher
	<b>Camera Image Sensing capacity (Picture Mode)</b>	2MP	2MP

	<b>Resolution</b>	Full HD (1920 x 1080 Pixel)	D1 (704 x 480 Pixel), HD (1280 x 720 Pixel), Full HD (1920 x 1080 Pixel), 4K HD (3840 X 2160 Pixel)
	<b>Day/Night Capable</b>	Yes	Yes, No
	<b>IR illumination Range(mtr)</b>	30	15, 30, 50, 80, 100, 120, 150, NA
OPTICS	Lens Type	Fixed	*
	<b>Focal Length(mm)</b>	3.6 - 9	*
	Iris Control	Yes	*
	Focus Mode	Auto,Manual	*
VIDEO	<b>Frame Rate (fps)</b>	30	25, 30, 50, 60
	Video Compression	H.264,MPEG4	*
	<b>Video Streaming</b>	Dual compressed stream	Dual compressed stream, Triple compressed stream, Quad Compressed Stream
PAN / TILT / ZOOM	Panning Range	NA	*
	<b>Pan Speed (deg/sec)</b>	NA	120, 240, 320, NA, 180
	Tilt Range below horizontal (deg)	NA	*
	Tilt Range above horizontal (deg)	NA	*
	<b>Tilt Speed (deg/sec)</b>	NA	90, 120, NA
	<b>Optical Zoom</b>	NA	12X, 20X, 30X, 36X, 44X, NA
	<b>Digital Zoom</b>	NA	10X, 12X, 16X, NA
AUDIO	<b>Audio Support</b>	No	Yes, No
	Audio Compression	NA	*
	Audio Streaming	NA	*
	Number of Audio Input Channel	NA	*
	Number of Audio Output Channel	NA	*
	External Microphone Support	Yes	*
ALARM	<b>Alarm Support</b>	No	Yes, No
	Number of Alarm Digital Input	NA	*
	Number of Alarm Relay Output	NA	*

	Pre/Post Alarm Buffer	No	*
SECURITY	Multi Level User ID/Password	Yes	*
	IP Address Filtering	No	*
	Encrypted Data Transmission	HTTPS (SSL/TSL)	*
PERFORMANCE	<b>Minimum Illumination for Capturing Color Image</b>	0.6	0.6, 0.5, 0.2, 0.1, 0.05, 0.01 Or lower
	Electronic Shutter Speed(sec)	1/3 to 1/10000	*
	<b>WDR (Wide Dynamic Range)</b>	100 dB	80 dB, 100 dB, 120 dB, DWDR
	<b>SNR (Signal to Noise Ratio)</b>	40-50	40-50, 50-60, 60-70, 70-80
	Auto Exposure	Auto Level Control	*
FEATURES	White Balance ( Indoor/Out door/Manual Selectable)	Yes	*
	Auto Gain Control (On/Off selectable)	Yes	*
	Back Light Compensation	Yes	*
	Remote Administration (Remote configuration and status using web based tool)	Yes	*
	Remote System Update Over Network	Yes	*
	PC Client (PC application client with a channel recording feature support)	Yes	*
	Web Client (Viewer through HTTP system configuration)	Yes	*
	On Screen Display in English	Yes	*
	ONVIF Support	Yes	*
	Presets	10	*
	Group Touring	5	*
	Privacy Zones	4	*
NETWORK AND INTERFACE	Supported Protocols	UDP,SNMP,IGMP,DHCP, RTP,RSTP,HTTP,SMTP,FTP,ICMP,HTTPS,DNS,DD	*

		NS,RTSP,RTCP,NTP,UPnP,QoS,TCP/IP	
	IP Support	NA	*
	Signal Processing	Digital Signal Process	*
	IPv6 ready	Yes	*
	Wireless	No	*
	Simultaneous Connections	5	*
STORAGE	On Board SD Card Support	No	*
	SD Card Memory(GB)	NA	*
HOUSING	<b>Installation Type</b>	Outdoor,Indoor	Indoor, Outdoor
	<b>Material of the Housing construction</b>	Alluminium	Alluminium, Plastic
	Protection	IP 66	*
	Vandal Resistant Housing	No	*
	If Yes, IK rating	NA	*
	Mounting bracket	Wall Mounted	*
	Weight	400	*
	Dimensions (mm x mm x mm)	-	*
POWER SUPPLY	Power Input	12 V DC	*
	Power Consumption	20	*
	Suitable Adapter Shall be Supplied to Make the Equipment Work on 230 V (+/- 10 %), 50 Hz	Yes	*
OPERATING CONDITIONS	Operating Temperature Range	-10 to +50 deg C	*
	Relative Humidity Non Condensing (%)	95	*
WARRANTY / SERVICES	<b>Warranty</b>	1	1, 2, 3, 4, 5 Or higher
	<b>Time for Replacement of Defective Product During Warranty Period</b>	72	12, 24, 36, 48, 72 Or lower
	Supply of Compatible drivers and software included	Yes	*
ENVIRONMENTAL / CERTIFICATION	Availability of facility & infrastructure for verification of all	Yes	*

parameters, features, and capability with Seller		
Availability of facility to test signal to noise ratio of camera at 0-01 lux	No	*
Conformity to Dry Heat test at 55 degree C for 16 hours as per IS :9000 latest	No	*
Conformity to Damp heat at 40 degree C - 95% RH (cyclic test): two cycles of 16+8 hours as per IS: 9000 latest	No	*
Conformity to Cold test at -10 / -20 degree C for 4 hours as per IS: 9000 latest, as applicable	No	*
BIS Registration for safety general requirements as per IS 13252 (Part 1):latest	Yes	*
Availability of Type Test Report from Central Govt /NABL/ILAC accredited lab to prove conformity to specification	No	*
Test Report Number and Date	-	*
Name and Address of Test Lab	-	*
Certification	FCC,CE	*

\* Bold specifications are the golden parameters.

#### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Venkateswarlu Bandi	494553,NMDC LTD, BACHELI COMPLEX,BAILADILA, BACHELI PO, CHATTISGARH	30	30

#### EMD Detail

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Required	No
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**ePBG Detail**

Required	No
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**Splitting**

Bid splitting not applied.

**Buyer Specific Additional Terms and Conditions**

1. **Scope of supply (Bid price to include all cost components) :** Only supply of Goods
2. **Availability of service Centres :** Bidder /OEM must have Service Centre In the State of each Consignee's Location
3. **Dedicated toll Free Telephone No. for Service Support :** BIDDER /OEM must have **Dedicated toll Free Telephone No. for Service Support**
4. **Escalation Matrix For Service Support :** Bidder /OEM must provide **Escalation Matrix of Telephone Numbers for Service Support**
5. **Timely Servicing / rectification of defects during warrantee period:** After having been notified of the defects / service requirement during warrantee period, Seller has to complete the required Service / Rectification within time limit specified. If the Seller fails to complete service / rectification with defined time limit, a penalty of defined % of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).
  - (i) Time Limit for Service / Rectification of defects will be as defined in the SLA document for the service.
  - (ii) Penalty per week of delay as % of unit price of product will be as defined in the SLA document for the service.
 Seller to give compliance Yes / No while submitting bid.
6. The Purchaser reserves the right to increase or decrease the ordered quantity up to 25 percent at the time of placement of contract . The purchaser also reserves the right to increase the contracted qty up to 25% during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly
7. Malicious Code Certificate:
 

The seller should upload following certificate in the bid:-

  - (a) This is to certify that the Hardware and the Software being offered, as part of the contract, does not contain Embedded Malicious code that would activate procedures to :-
    - (i) Inhibit the desires and designed function of the equipment.
    - (ii) Cause physical damage to the user or equipment during the exploitation.
    - (iii) Tap information resident or transient in the equipment/network.
  - (b) The firm will be considered to be in breach of the procurement contract, in case physical damage, loss of information or infringements related to copyright and Intellectual Property Right (IPRs) are caused due to activation of any such malicious code in embedded software.

[This Bid is also governed by the General Terms and Conditions](#)

**---Thank You---**