

BNPM/NCB/CCT V/0483/2020- 21 Dated 23.10.2020	BANK NOTE PAPER MILL PRIVATE LIMITED	Sheet 1 of 46
	TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU CORRIGENDUM NO. 4 (CLARIFICATIONS)	

CORRIGENDUM No. 4, DATED 07.01.2021
(CLARIFICATIONS)

FOR

TENDER NO. BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020
TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT,
MYSURU

CLIENT : BANK NOTE PAPER MILL INDIA PRIVATE LIMITED

PROJECT : 12000 TPA BANK NOTE PAPER MILL AT MYSORE

LOCATION : MYSORE, KARNATAKA

BANK NOTE PAPER MILL INDIA PRIVATE LIMITED
CORPORATE OFFICE, ADMINISTRATIVE BUILDING, NOTE MUDRAN NAGAR,
MYSORE- 570003

CORRIGENDUM NO. 4 (CLARIFICATIONS)

1.0 SCOPE OF THIS CORRIGENDUM

- 1.1 This corrigendum dated 07.01.2021, is issued for changes in closing date.
1.2 Except for details mentioned herein, all other details contained in the Tender No. **BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020** shall remain applicable and unchanged.

2.0 CLARIFICATIONS TO THIS TENDER: -

2.1 SECTION 01: (Clarification)

Existing Server and Workstation Specification			
Sl No		Network Management Server	CCTV Client PC
1	Make & Model	HP ProLiant DL380e Gen8	HP proDesk 400 G2 MT
2	Application	Allied Telesis Allied view NMS release 15.0	NA
3	Redundancy	NA	NA
4	Processor	Intel Xeon E5-2407 v2	i7 4th Gen
5	Speed	2.40 gigahertz	3.10 GHz
6	Configuration	NA	NA
7	Operating System	Windows Server 2012 Standard (build 9200)	Windows 7 Professional
8	RAM	8 GB	8GB
9	Hard Disk drive	1 TB	1 TB
10	Optical Drive	hp DVDROM	SATA DVD RW
11	Graphics	NA	NVIDIA Ge Force GT 630
12	Mounting	Rack mount	NA
13	Power Supply	230V 50 Hz input, dual power supply	230V 50 Hz input
14	Ethernet card	HP Ethernet 1Gb 4-port 366i Adapter	2 Port (Intel and Realtek)
15	Communication Ports	1 Nos. Serial Port, 4 Nos. USB, 4 Nos. Ethernet port	COM1 & LPT1
16	Expandable	RAM & HDD Upgradable	NA
17	Data base Software	NA	NA
18	Quantity	1 Nos.	11 Nos

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 3 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

2.2 SECTION 02: (Addition to)

Clarification of **Lead company/Primary bidder** and **Project**(experience) (Page 102 and 103)

Eligibility clause (Experience & Past Performance)	Value of each project	Experience (Similar project) Categories 1. CCTV camera 2. Servers 3. Storage and 4. Networking	Lead Company/Primary bidder (only in case of consortium) Categories 1. CCTV camera 2. Servers 3. Storage and 4. Networking
a) 01 project completed at value of 6.4 crores	6.4 crores	1) All four categories should be covered in the PO/WO/Agreement of project valued at minimum 6.4 crores	Lead Company/Primary bidder must fulfil experience criteria
b)02 projects completed at value of 4 crores	4 crores	1) All four categories experience should be covered consolidated among the PO/WO/Agreement of the 02 projects.	Lead Company/Primary bidder must submit minimum one Project experience (Project value at minimum 04 crores) and the project should cover at-least two categories.
		2) Both the projects should cover minimum two categories each.	
c)03 projects completed at value of 3.2 crores	3.2 crores	1) All four categories experience should be covered consolidated among the PO/WO/Agreement of the 03 projects.	Lead Company/Primary bidder must submit minimum one Project experience (Project value at minimum 3.2 crores) and the project should cover at-least two categories.
		3) All 03 projects should cover minimum two categories each.	

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 4 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

2.3 SECTION 03: (Clarification)

Si No.	Tender Document Reference			Bidder query	BNPM Reply
	Pg No.	Sec. No./Clause No.	Subject		
<u>SET NO. 01</u>					
1.	Page 03	General	EMD	Is tender Fee exempted for National Small Industries Commission (NSIC) registered Bidders, Please Confirm	As per tender terms
2.	Page 03	General	EMD	Is EMD amount of Rs 5,00,000 / - exempted for National Small Industries Commission (NSIC) registered Bidders, Please Confirm	As per tender terms
3.	Page 98	Section VIII	List of approved makes	Please let us know the process for getting the equivalent makes for acceptance and what are the relevant documents to be submitted and the timeframe for the same.	Amendment through addendum of this corrigendum <i>Equivalent model/product's specification document along with satisfactory performance certificate from project's representative where the product/make is already in use.</i>
4.	Page 29	Section V	SCC	As per the tender PBG point & as per our bank limit, we are able to provide you PBG for three years.	As per tender terms

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 5 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				before expiry accordingly we will renew it for the required period. Please confirm.	
5.	General			This tender is online type, is it in any documents need by offline type? please confirm	Only Online mode
6.	Section IX		QUALIFICATION/ELIGIBILITY CRITERIA	We NSIC MSME vendor, kindly confirm for the emd exemption & other benefit,	As per tender terms
7.				Relaxation/reduction in project value under 'Experience & Past Performance'	As per tender terms
8.			Port Density	Considering CCTV operates at 30w PoE+ power, HPoE is no more required on switch, please do relax the requirement of HPoE	As per tender specs
9.	Page 90-92	Edge Switch (Outdoor-Industrial Grade), Section VIII	Resiliency	The 8 Port Industrial Grade switches don't support active-active clustering and no OEM industrywide support clustering/stacking, so please relax the same.	<u>Amended through addendum of this corrigendum</u> VSS not applicable for Industrial Grade switch.
10.			Security	As switch is being asked with 1G Uplinks, so SFF-8472 support on 10G SFP+ slots has no relevance, please relax the same	<u>Amended through addendum of this corrigendum</u>

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 6 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

					only applicable for Optical transceivers of 1G SFP
11.			Power input	The 8 Port Industrial Grade switches are DC powered and supplied with external AC/DC power adapter, so please change the clause as 'Should be equipped with dual redundant DC power inputs for higher availability'	<u>Amended through addendum of this corrigendum:</u> Should be equipped with dual redundant DC power inputs for higher availability. Adaptor should be supplied along with the switch.
12.			Operating Temperature	For smooth operation, we recommend to consider NEMA-TS2 certified switch which certifies a switch under higher temperature, vibration and shocks at outdoor locations due to vehicles movement. Please change the clause as '0 to 70°C in continuous operation of 365 days 24 hrs & NEMA-TS2 certified'	As per tender specs
13.	Page 85-87	Management, Section VIII	Core Switch	Due to increasing cyber threats, network security lies at utmost priority, so we highly recommend	Clause included under management feature of core switch as

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 7 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				to consider the security against cyber threats.	" The Switch shall be able to work with security appliance and upon detection of any threat like malware, viruses or any cyber threat, the switch shall be able to automatically block the communication of edge device detected of feeding cyber threat into the network to avoid further spread in to the network"
14.				Considering the size of the network, we highly recommended Zero touch configuration for ease of management.	Clause included under management feature of core switch as "The Switch shall be able to provide Zero Touch Management with auto back of entire network configuration, auto-firmware upgrade and auto-recovery and centralized management of all the switches"
15.	Page 63	Bullet camera, Section VIII	-	Need a change to 3.2 – 10mm	As per tender specs
16.	Page 64	PTZ camera, Section VIII	-	Need a change to 30 mtr or above	<u>Amended through addendum of this corrigendum:</u> IR range modified as 30 mtr or above

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 8 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

17.	Page 65			Need a change to 2MP or above	<u>Amended through addendum of this corrigendum:</u> Video Resolution of PTZ camera is modified as Minimum 2 MP and above
18.	Page 76,77,78	Servers, Section VIII	Graphics	P40 is EOL, hence please change to either RTX 4000 or higher nVIDIA RTX 4000 or Higher is recommended	The specification sought is minimum, however bidder may propose a better and higher performance graphic card.As per the scope, supplied material should be supported by OEM for 5 years (Warranty + AMC Period)
19.	Page 76,77,78,79	Servers, Section VIII	OS	Windows 2016 is no longer available. Hence change to Windows 2019 or higher Microsoft Windows Server 2019 and above / latest (64 bit) Standard Edition.	<u>Amended through addendum of this corrigendum:</u> Windows Server 2019 (64 bit) or latest standard edition with down-gradable option to lower version. Paper License should be provided in the name of BNPM
20.	Page 76,77,78,79	Servers, Section VIII	Security	Request to add the Security point on all server to have a secure & reliable server: Should have a cyber resilient architecture for a hardened server design for protection,	Clause included against Security feature for all Servers as " Configuration upgrades should only with Cryptographically signed firmware, Secure Boot, Secure Erase etc."

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 9 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

detection & recovery from cyber-attacks, should protect against firmware which executes before the OS boots, should provide effective protection, reliable detection & rapid recovery using:

- Signed firmware updates
- Secure default passwords
- Configuration and firmware drift detection
- Persistent event logging including user activity
- Secure alerting
- Automatic BIOS recovery
- Rapid OS recovery
- System erase, Configuration upgrades should be only with cryptographically signed firmware and software, Should provide system lockdown feature to prevent change (or "drift") in system firmware image(s) & prevent malicious modification of server firmware, Intrusion alert in case chassis being opened.

SET No. 02

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 10 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

	Page 108-128	Section XI	BOQ	Many line items are indicated as LUMPSUMP, can we get the exact quantity	Vendor may assess the requirement and calculate accordingly for fulfillment of project as per the scope and propose accordingly
	Page 38	Section VII	SAN storage	For upgrade the existing CCTV system should we utilize the existing SAN or we should consider new SAN separately.	BNPM doesn't have existing SAN. Vendor should consider new SAN.
	Page 56	Section VII	VMS and Analytics	Is it mandatory that VMS shall Support an integrated Intelligent Video Analytics system preferably from same OEM	It is not mandatory.
	Page 60-68	Section VIII	Camera Spec	PPPOE Protocol is not part of CCTV System hence request you to remove the same	<u>Amended through addendum of this corrigendum:</u> PPPOE is deleted
	Page 61-63	Section VIII	Camera Spec	In the Bullet Camera 12- 40 mm is not a standard hence request you to change to 5 to 50 mm lens	As per tender specs Outdoor Bullet camera is same as BOX camera. The specification sought is minimum, however bidder may propose a better lens.
	Page 65-67	Section VIII	Camera Spec	The tender calls for 3mp PTZ, but it is a not a standard and in peculiar few OEM in the market hence request you to change it to 2mp or 5mp	<u>Amended through addendum of this corrigendum:</u> Video Resolution of PTZ camera is modified as 2 MP or above
	Page 39	Section VII	Specific Requirements	Interfacing of existing Access control System with the new CCTV	Force door open alert is required to be integrated with CCTV

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 11 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				<p>system and providing alert in the VMS. (Approx. 20 Nos. access controllers) As we understood existing VMS is integrated with Access controller system.</p> <ul style="list-style-type: none"> • Can you provide details which type of alert need to be integrate with new CCV system? • Can you provide make & model no of existing controller with SDK API details available for integration? • Is it ACS Software to VMS software integration or ACS controller to VMS software integration? 	<p>system. Make: Godrej Model: IQPEC controller Type: 32-bit microprocessor based</p> <p>BNPM will arrange to provide the SDK API of Access control system.</p>
	Page 39	Section VII	Specific Requirements	<p>Alternatively: Interfacing of existing Access control System with the new CCTV system and providing alert in the VMS. (Approx. 20 Nos. access controllers) Considering these are legacy controller devices and both are separate system can you put this SCOPE to ACS OEM Only. VMS shall provide Open format SDK</p>	<p>Proposed VMS software should accept 3rd party integration with the Access control system.</p> <p>Integration scope lies with the Bidder only, however BNPM will arrange for the SDK of access control system.</p>

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 12 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

General		Servers	Should we utilize existing servers, Monitors & workstation?	<p>Only existing Monitors & Workstations for client view to be used.</p> <p>Existing Network Management Server to be used for configuring the new switches installed.</p> <p>1 No. of existing Video Recording server to be used as Antivirus Server.</p> <p>Rest all existing servers will be removed from the network after the new servers were commissioned. Maintenance of these servers withdrawn from the network will be in BNPM scope.</p>
General		Servers	Server redundancy & Core switch redundancy should be considered or already available	<p>New 2 Nos of core switches were mentioned in BOQ. Redundancy should be configured.</p> <p>Server Redundancy should be available for the VMS/Backup Application Server and Video Recording Servers only.</p>

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 13 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

	Page 58	Section VII	Proof of concept	Proof of concept is required at what stage of tendering process	Document may be submitted along with the bid submission.
	Page 38 to 84 and Page	Section VII and Section VII	Facial recognition and video analytics	1) How many individual licenses required on the cameras listed?	Amended through addendum of this corrigendum "Scope of work related to Video Content Analytics & Facial Recognition System is included through addendum of this corrigendum 1) Licenses as required is mentioned in corrigendum No. 03, part A 2) There is no change in the processor required for analytic server, vendor to access the requirement of servers and its specification for the analytics mentioned in Corrigendum No. 03, part A which includes Facial Recognition. 3) If in a single platform all the analytics mentioned in Corrigendum No. 03, part B, can be achieved, vendor may provide the same.
2) What's the reason for using Intel Gold processor-based machine for Facial recognition when the same accuracy can be achieved using a much lessor hardware configuration?					
3) Why don't we have all analytics on single platform instead of different software's? Reason is when an Intrusion is detected using Perimeter intrusion, we cannot directly search that person using Face search whether that person was there in premises if we have separate software. If each software is on single platform then we can do it without issues.					
4) Camera health monitoring / camera tampering feature should be on server and not edge based since if any camera goes bad then replacing camera with edge-based analytics will be expensive.					

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 14 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

4) The said camera health monitoring feature may be optional.

However, specification for the same is amended as mentioned in Corrigendum No. 03, part B "

SET NO. 04

	Page No. 69	SAN storage, Section VIII	Memory and HDD Support	The Proposed storage Solution should be scalable to 480 drives with the same Storage controllers without upgrading the controllers: With the higher capacity of NLSAS drives availability, more than 50% of the required capacity is achievable with less than 240 drives	As per tender specs
				Request to remove NVMe as this is not required for the proposed surveillance solution	As per tender specs
	Page No. 70		Host Connectivity and Storage Backend Disk Connectivity	The offered Storage solution shall be supplied with at least 8nos of 10G Ethernet Ports (4 X Base- T and 4X SFP+ Ports) and 8nos x 16Gbps FC ports across the offered solution for Host Connectivity.	As per tender specs

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 15 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				<p>Ethernet ports should be available to support Block and File protocols With the higher capacity of NLSAS drives availability, more than 50% of the required capacity is achievable with less than 240 drives</p>	As per tender specs
	Page No. 70		VMS Validation on the Storage System	<p>The Proposed Storage Solution should be validated jointly by the VMS Application OEM & Bidder / SI.</p>	<p><u>Amended through addendum of this corrigendum:</u> System Integrator shall be responsible for the compatibility between VMS OEM and storage proposed. Tested and validated across Servers, Storage and cameras.</p>
	Page No. 72	Section VIII	Remote Application	<p>The Storage array must support capability to replicate data to remote site array in synchronous or asynchronous modes. This license should be configured for entire supported capacity of the array and the proposed storage should be configured to replicate with the DR storage. Among different CCTV solutions available with multiple VMS OEMs in the market, for storage OEM it is not practically possible to test</p>	As per tender specs

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 16 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				each of the solution. System Integrator / Bidder would have in-depth understanding of the complete solution.	
	Page No. 73	Section VIII	Additional features	Request to amend the specification as "proposed array must support traditional (user data) and transaction (Vmware, Oracle) uses cases. Proposed storage solution must support creating multiple NAS file systems with secure authentication with each file system scalable up to 256TB. In a CCTV solution the replication of the data would be addressed by VMS. Storage Synchronous replication is not a use case for CCTV requirement.	As per tender specs
	Page No. 74	Section VIII	Validation of the Storage System	The Proposed Storage System should be validated jointly by the VMS Application OEM & Bidder / SI. Among different CCTV solutions available with multiple VMS OEMs in the market, for storage OEM it is not practically possible to test each of the solution. System Integrator / Bidder would have in-	<u>Amended through addendum of this corrigendum:</u> System Integrator shall be responsible for the compatibility between VMS OEM and storage proposed. Tested and validated across Servers, Storage and cameras.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 17 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				depth understanding of the complete solution.	
	Page No. 86	Section VIII	Layer 3 Core Switch/ Resiliency	Please remove this	As per tender specs
	Page No. 87	Section VIII	Layer 3 Core Switch/ Mounting	Request to amend as 3RU or 4RU	<u>Amended through addendum of this corrigendum:</u> 3RU / 4RU is acceptable
	Page No. 88	Section VIII	Distribution Switch: Gigabit Layer 2	Please remove this	As per tender specs
Set No. 05					
	Page 35	Section VI	List of Requirements, Form B2, Sr. No. 2(b)	Kindly let us know the bifurcation of the analytics licenses.	Video Analytics scope as per the revised scope provided herewith as part A
			List of Requirements, Form B2, Sr. No. 4(b)	We understand that the redundancy is not required for the Video Analytics server. Kindly confirm if our understanding is correct.	Redundancy for Video Analytics server not required.
	Page 39	Section VII	Specific Requirements: Sr. No. 13	We understand that any failed attempt at the access control reader should be recorded as a snap by the Video Management System. We assume that the fixed camera are provisioned near the access control readers for such evidence. We also assume that the necessary	Fixed cameras will be provisioned near to access control readers. Make: Godrej Model : IQPEC controller Type : 32 bit microprocessor based Force door open alert is required

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 18 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				API/SDK would be provided by the access control OEM for such integration. Kindly let us know if our understanding is correct.	to be integrated with CCTV system. BNPM will arrange to provide the SDK API of Access control system.
	Page 39	Section VII	Existing Infrastructure of the CCTV System: Table 2	Kindly confirm if the existing server/workstation would be retained / re-utilised by the customer. In case yes, kindly provide the configuration of the infrastructure such as: CPU Model, Cores, Clock Speed, Memory, Network Card, HDD Capacity and GPU cards.	Only existing Workstations for client view to be used. Existing Network Management Server to be used for configuring the new switches installed. 1 No. of existing Video Recording server to be used as Antivirus Server. Rest all existing servers will be removed from the network after the new servers were commissioned. Maintenance of these servers withdrawn from the network will be in BNPM scope.
	Page No. 41	Section VII	General Requirements of the system, Sr. No. 15	We request you to kindly make the VMS system Operating System agnostic. This will give flexibility to you in terms of deciding on the operating system. This is also in-line with the Govt. of India and the State Government guidelines on the agnosticity of the software platform.	Amended through addendum of this corrigendum The VMS software shall be compatible with windows server 2019 standard edition or similar available software in LINUX operating system.

BANK NOTE PAPER MILL PRIVATE LIMITED**BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020****TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU**

Sheet. 19 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

	Page No. 41	Section VII	General Requirements of the system, Sr. No. 25	In order to confirm the security of the supplied VMS, we request you to kindly incorporate the requirement of the certification by the CERT-In empaneled security auditor for the supplied VMS confirming the server to server, server to camera and server to workstation communications are encrypted, with at least AES 256 bit encryption, wherever applicable.	The specification sought is minimum, however bidder may propose a CERT-In certified VMS application.
	Page No. 41	Section VII	General Requirements of the system, Sr. No. 25	In order to reduce the eventuality of getting the VMS system hacked due to a vulnerability in the operating system, we request you to make it mandatory for the VMS software to be operating system agnostic. This will ensure that the VMS software does not use OS intrinsic and would be secured despite of the OS vulnerabilities.	clarified above.
	Page No. 42	Section VII	Detailed Scope of work, Sr. No. (ii)	List of cameras to be retained on page 39 shows a count of 25 cameras. Kindly confirm.	31 Nos of existing camera will be retained as mentioned in page no. 39. (25+3+2+1)
	Page No. 43	Section VII	C) Scope of work for Servers and Storage, Sr. No. (iii)	We understand the requirement pertains to the on-camera storage which should be synchronized with the VMS storage in case the	128GB SD card is sought for the on-camera storage. Storage on recording servers for 300 nos cameras for minimum 5

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 20 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				camera is not accessible on the network. Kindly confirm if our understanding is correct.	days recording should be available. Data above 5 days to be archived on SAN as per the retention policy.
	Page No. 43	Section VII	C) Scope of work for Servers and Storage, Sr. No. (iv)	We understand that the redundancy should be provided for VMS Management and Database servers in such a manner that the system should function with least interruption in case any server fails. Kindly confirm if our understanding is correct.	Yes, As per tender specs
	Page No. 44	Section VII	D) Scope of work for Video Analytics, Facial Recognition, (ii) Facial Recognition System, Sr. No. (4	In order to confirm the robustness of the FRS, we request you to kindly consider the modified clause: " 4) The Face recognition software offered should be running in minimum 04 projects for Indian faces in any surveillance project from the OEM in India."	As per tender specs
	Page No. 76-79	Section VIII	QUALITY CONTROL REQUIREMENTS, 8. VMS/Backup Application Server 9. Video Recording Server Specification	We request you to kindly allow the server sizing as per the OEM design and the techno-functional requirements of the tender. This will result in the optimized server specifications.	The specification sought is minimum, however bidder may propose a higher performance system as per their requirement fulfilling the minimum criteria sought.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 21 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

			10. Video Analytics Processing/Application Server 11. Facial Recognition System Server		
	Page No. 79	Section VIII	QUALITY CONTROL REQUIREMENTS, 11. Facial Recognition System Server	We request you to kindly allow the choice of the DB and OS as per the OEM solution. This will result in the most optimized system and the cost.	<u>Amended through addendum of this corrigendum:</u> Database License should be Microsoft SQL 2016 standard edition or similar available software in LINUX OS. License copy of the same should be in the name of BNPM.
	Page No. 47	SECTION VII	TECHNICAL SPECIFICATIONS, Video Management Software, Sr. No. 2	We request you to kindly make the VMS system Operating System agnostic. This will give flexibility to you in terms of deciding on the operating system. This is also in-line with the Govt. of India and the State Government guidelines on the agnosticism of the software platform.	<u>Amended through addendum of this corrigendum:</u> The VMS software shall be compatible with windows server 2019 standard edition or similar available software in LINUX operating system. License copy of the same should be in the name of BNPM.
	Page No. 48	SECTION VII	TECHNICAL SPECIFICATIONS, Video Management Software, Sr. No. 13, (j)	This is a camera feature and the VMS is compliant to accommodate the variable frame rate. Kindly confirm if our understanding is correct.	This feature in interoperable with Camera and VMS. VMS should accommodate the sudden change in the variable frame rate.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 22 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

	Page No. 49	SECTION VII	TECHNICAL SPECIFICATIONS, Video Management Software, Sr. No. 14, (d - Recording Administration, ii. Event Activated Recording, Sr. No. 3	The feature is possible for the PTZ cameras. In case of Fixed cameras, the VMS can record the snapshot. Hence, we request you to change the clause as "3. For cameras that support Pan/Tilt/Zoom presets, a specified preset location shall be offered to the user when the alarm/event occurs prior to the event activated recording commencing. For example, when an alarm is detected on a security door, the alarm shall give the user the option to move the PTZ type camera to a preset position, which is pointing at the door subsequent to the software commencing recording."	<u>Amended through addendum of this corrigendum:</u> For cameras that support Pan/Tilt/Zoom presets, a specified preset location shall be offered to the user when the alarm/event occurs prior to the event activated recording commencing. For example, when an alarm is detected on a security door, the alarm shall give the user the option to move the PTZ type camera to a preset position, which is pointing at the door subsequent to the software commencing recording.
	Page No. 49	SECTION VII	TECHNICAL SPECIFICATIONS, Video Management Software, Sr. No. 14, (d - Recording Administration, ii. Event Activated Recording, Sr. No. 5	We request you to add object classification along with the PTZ tracking which happens through the server based analytic. This will ensure that the PTZ tracks the object of interest such as a human being.	Trespassing pertains not only to human being; it might be a drone or any object etc with in the ambit of camera. Once the trespass is detected, the same needs to be tracked.
	Page No. 50	SECTION VII	TECHNICAL SPECIFICATIONS, Video Management Software, Sr. No. 14, (d - Recording Administration, ii. iii.	The allowed log-on times should be flexible and, in any case, the system audit log captures the operator login events. We request	As per tender specs

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 23 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

			Scheduled Recording	you to change the clause to " The schedules may be programmed to provide different record frames rates for day, night & weekend periods as well as special days. Advanced task schedules may also be programmed that could specify when events may trigger alarms and when data backups should occur."	
Page No. 53	SECTION VII	TECHNICAL SPECIFICATIONS, Video Management Software, Sr. No. 17. Graphical Display of Devices	The clause is specific to an OEM. We request you to kindly relax the requirement.	<u>Amended through addendum of this corrigendum:</u> This feature is deleted	
Page No. 55	SECTION VII	TECHNICAL SPECIFICATIONS, Video Management Software, Sr. No., 20. System Configuration, Maintenance & Diagnostics, Sr. No. C	Kindly relax the requirement of running tests. The tests are performed in the background by the application and the status is available to the user.	<u>Amended through addendum of this corrigendum:</u> The Diagnostics applications shall provide a unified user interface for recording system activity, collecting diagnostic information and viewing system log files. Running tests feature is deleted	
Page No. 55	SECTION VII	TECHNICAL SPECIFICATIONS, Video Management Software, Sr. No., 20. System Configuration, Maintenance &	Kindly elaborate the requirement of preview of Video. All the system related reports are available for export. We hope this would be acceptable.	The VMS solution shall support a functionality to generate a PDF that shall document all parts of the system configuration.	

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 24 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

			Diagnostics		
	Page No. 56	SECTION VII	TECHNICAL SPECIFICATIONS, Video Management Software, Sr. No.,21. Video Management System Client, Sr. No. a	This clause is OEM specific. The client should be a unified client for simplicity which incorporates this feature.	It shall also have functions to configure video devices & other additional video functions. This feature is amended as optional.
	Page No. 56	SECTION VII	TECHNICAL SPECIFICATIONS, Sr. No.,22. Video Content Analytics	Removing of the jitter from shaking video sources is a camera feature. Kindly relax the same.	These features can be achieved at camera level, however the image obtained should be free from jitter and blur- free.
	Page No. 81	SECTION VIII	QUALITY CONTROL REQUIREMENTS, Sr. No.,13. Video Analytics Specifications, Sr. No. 6	This is a camera feature, kindly relax the requirement from VA	
	General		Video analytics	The tender has mentioned that minimum video analytics are required - the same has to be elaborated so that an appropriate solution can be proposed.	<u>Amended through addendum of this corrigendum:</u> Video Analytics scope as per the revised scope provided herewith as Corrigendum No. 03, part A
	General		Network for all the Camera Types	In the Tender PPOE Protocol has been mentioned in all camera spec. However, PPOE protocol is part of Network Switch specs & not of CCTV System, hence request	<u>Amended through addendum of this corrigendum:</u> PPOE is Deleted

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 25 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				you to please remove the same from all CCTV camera specs.	
	Page 63	Section VIII	IP Bullet Outdoor Camera	In the specifications of Bullet Camera lens specs are mentioned as 12- 40 mm. This is not a standard lens type hence request you to please change to 5 to 50 mm lens.	No change in tender specification. Outdoor Bullet camera is same as BOX camera. The specification sought is minimum, however bidder may propose a better lens
	Page 65	Section VIII	PTZ Camera	The tender has mentioned resolution of PTZ camera as 3MP, But it is a not a standard resolution and its specific to few OEM in the market hence request you to change it to 2MP, which is a standard resolution for PTZ Cameras.	<u>Amended through addendum of this corrigendum:</u> Video Resolution of PTZ camera is modified as Minimum 2 MP and above
	Page 67	Section VIII	IP 4k camera	The tender has mentioned lens requirement for 4K camera as 4mm to 13 mm, which is not a standard lens type. Request you to please change this to 4 to 9 mm or 9 to 20 mm.	The specification sought is minimum, however bidder may propose a better lens
	Page 35,36,37 of 140		BOQ	Few items in the List of requirements Section VI has Unit of Measurement as Lumpsum for Software, Licenses, Server, Storage, Cables, Trays, HDPE does	Vendor may assess the requirement and calculate for fulfillment of project as per the scope and accordingly propose the solution.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 26 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				it mean bidders are free to quote as per the site survey.	
	Page 43, 53 of 140	Section VII	Storage	Storage is required in Servers at 1080p,25fps for 7 days or 5 days, please confirm because Page 43 says 5 days and page 53 says 7 days	Amended through addendum of this corrigendum: It is amended to 5 days in corrigendum No. 3, part A. 128GB SD card is sought for the on-camera storage. Storage on recording servers for 300 nos cameras for minimum 5 days recording should be available. Data above 5 days to be archived on SAN as per the retention policy.
	Page 43 of 140	Section VII	Storage	Storage Configuration of SAN 250 Cameras for 90 Days, 25 fps , Full HD (1080p) , H.265 + 50 Cameras for 365 Days , 25fps , Full HD (1080p) , H.265 Useable after raid 6 Configuration scalable by 50 % of useable storage. Please Confirm	Yes, with minimum 1500TB usable storage after Raid 6 configuration. If the required usable storage is more than 1500TB, then SAN offered should be scalable by 50% of the offered usable storage. (for example, if the required usable storage is 2000TB, then the SAN offered should be scalabe upto 3000TB). Vendor to provide the storage

BANK NOTE PAPER MILL PRIVATE LIMITED**BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020****TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU**

Sheet. 27 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

					calculation along with the technical bid.
	Page 38 of 140	Section VII	Core switch	We understand the existing Switch of Allied telesis both AT- X908 - 2 Nos and AT- X510-28GPX are in Working Condition with support for 10 G SFP Module and are under warranty, Please Confirm.	Amended through addendum of this corrigendum: Upgradation of Core switch mentioned in page no. 38, 43 stands deleted and same is amended through Part A As the new core switch is considered in Section -XI, Price Schedule 6(C), page No. 117 and Section - VI, ,Sl.No 6 (b), page No. 36
	Page 40 of 140	Section VII	Existing workstaion	We understand that we have to use the existing 11 Nos of Workstation and they are in working condition and are under warranty, please confirm	All the workstations are in good working condition. Presently the said workstations are under Comprehensive AMC of existing CCTV vendor.
	Page 39 of 140	Section VII	Existing servers	We have to use the existing 5 Nos of Servers for Video Management and Recording and 4 Nos. of Servers for Analytics, 1 No. server for NMS. Please Confirm if we can use the same and whether they are in Working condition	Only Existing Network Management Server to be used for configuring the new switches installed. 1 No. of existing Video Recording server to be used as Antivirus Server. Rest all existing servers will be removed from the network after

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 28 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

					the new servers were commissioned.
	Page 39 of 140	Section VII	Access controllers	Please Share the Make and Model Numbers of the existing 20 Nos of Access Controllers along with Make of Software Used. also Let us know what sort of interfacing is required.	Make: Godrej Model : IQPEC controller Type : 32 bit microprocessor based Force door open alert is required to be integrated with CCTV system. BNPM will arrange to provide the SDK API of Access control system.
	Page 37 of 140	Section VI	BOQ	No. of servers and specification of the servers to be used (BOQ table01 (line item 4(a) and (b)) to be provided along with unit price of each item Please Clarify what exactly is meant by this clause as the requirement is lumpsum	Specification and Quantity of each server to be provided along with the price bid for the servers proposed under Line item 3(a) and 3(b),
	Page 41 of 140	Section VII	Nalaytics	Please Confirm if we have to Provide Edge analytics or Server based Analytics	Cameras proposed should have a feature of edge analytics. Further analytics mentioned through addendum of this corrigendum, should be configured as server-based analytics.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 29 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

	Page 39 of 140	Section VII	Camera	Please Provide the Make and Model number of the Existing NMS Software	Clarification provided through addendum of this corrigendum
	Page 61 of 140	Section VIII	Camera	CIFS/SMB Change: CIFS/SMB shall not be mandatory Justification: CIFS/SMB are the features of VMS, and can be complied via VMS also.	Amended through addendum of this corrigendum: CIF/SMB is deleted
	Page 63 of 140	Section VIII	Camera	Change : CIFS/SMB shall not be mandatory Justification : CIFS/SMB are the features of VMS, and can be complied via VMS also.	Amended through addendum of this corrigendum: CIF/SMB is deleted
	Page 63, 65 of 140	Section VIII	Camera	Change : Ament to a standard lens varient, 2.8-12mm /7-22mm. Justification : 12-40mm is not a stsndard lens. What is the range required? Since IR range is 50m, the lens 2.8-12mm is sufficient. Change : CIFS/SMB shall not be mandatory Justification : CIFS/SMB are the features of VMS, and can be complied via VMS also.	Amended through addendum of this corrigendum: Outdoor Bullet camera is same as BOX camera. The specification sought is minimum, however bidder may propose a better lens. IR Range is modified as 30 Mtr and above CIF/SMB is deleted
	Page 66, 67 of 140	Section VIII	Camera	Change : CIFS/SMB shall not be mandatory, ARP as optional Justification : CIFS/SMB are the features of VMS, and can be	Amended through addendum of this corrigendum: CIF/SMB is deleted

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 30 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				<p>complied via VMS also. ARP are intended for CCTV camera control devices and This protocol is used to associate an IP address to a hardware MAC address. A request is broadcast on the local network to discover the MAC address for an IP address same can be achieve from Switch/Router level.</p>	
	Page 67,68 of 140	Section VIII	Camera	<p>Change : Ament to a standard 4K lens , 3-10mm Justification : 4-13mm is not a stsndard lens. Change : CIFS/SMB shall not be mandatory, ARP as optional Justification : CIFS/SMB are the features of VMS, and can be complied via VMS also. ARP are intended for CCTV camera control devices and This protocol is used to associate an IP address to a hardware MAC address. A request is broadcast on the local network to discover the MAC address for an IP address same can be achieve from Switch/Router level.</p>	<p>Amended through addendum of this corrigendum: The specification sought is minimum, however bidder may propose a better lens. CIF/SMB is deleted</p>

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 31 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

	Page 46 of 140	Section VII	VMS	Please Clarify what sort of integration is required for the Access control System, Fire Detection System, intrusion detection system	Force Door Open for access control system. Video based fire detection system and integration with Fire Alarm system Panel. Intrusion detection system related to peripheral security. VMS should have a provision for interfacing of 3rd party software.
	Page 80-85 of 140	Section VIII	Analytics	What is the Accuracy required from the Analytics and the FRS System in terms of percentage as the same cannot be 100% and will be somewhere around 70 to 80 % and Realistic Implementation for the same.	Amended through addendum of this corrigendum: 75% accuracy to be achieved
	Page no. 69	Section VIII	Memory and HDD Support	the extension of Cache capability by adding high performance SSD drives is specific to few OEM's , the clause may be more generalised and should be inline with previous point.	The required memory is 192GB. However apart from 192GB memory if additional memory is required, the same needs to be achieved by extending the system cache by adding SSD.
				since the required storage is 1.5 and may scale to approx 50% of the current capacity , hence the number of minimum drives may be reduce to 240-250 (Approx)	No Change in tender specification.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 32 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

	Page No. 70			since the requested drives are NL-SAS and the required functionality is CCTV recording therefore NVMe may not be needed and hence may be made optional or removed.	No Change in tender specification.
	Page No. 70	Section VIII	Host Connectivity and Storage Backend Disk Connectivity	since the requirement is for a SAN storage and there may be several VMS solutions which may write data in Block format hence the clause may be changed to Block/or/File or only Block. Also Block level storage boxes have high performance as well as high scalability.	No Change in tender specification.
	Page No. 70		VMS Validation on the Storage System	Please help to remove the clause, as different storage vendors and models might be compatible with different VMS applications and may become a bottleneck in future , In case needed the selected VMS application vendor and the selected storage Vendor may run a demo for a specified period to validate	Amended though addendum of this corrigendum System Integrator shall be responsible for the compatibility between VMS OEM and storage proposed. Tested and validated across Servers, Storage and cameras.
	Page No. 71		Storage Software Licenses	It appears that Only NL-SAS drives are required as per the below mentioned specifications , asking for all the feature licenses will only increase the BOM , please clarify if	No Change in tender specification.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 33 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				still all licenses are needed. Remote Replication licenses may be discussed and procured anytime later as per the need , for now since there is only 1 Storage needed there is no need to include remote replication licenses.	
	Page No. 72		Remote Application should be changed to remote replication	since there is only one stoarge requirement mentioned in RFP why do we need remote replication, if needed the remote replication may be procured later	Not change in tender specification
			Data In place upgrade	since the required storage is for 1.5 PB NL-SAS and approx 50% of current capacity may be scaled in future summing upto 2.2PB , the enterprise level SAN boxes are highly scalable to even % PB and there might not be any need to upgrade to higher model , though the same can be achived if needed , kindly make this clause optional	No Change in tender specification.
	Page No. 73			if NAS shares are needed to be created , it is not necessary to have File/NAS capability for entire storage capacity , infact it can be sized with more precion and only a specific %age of storage capacity	No Change in tender specification.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 34 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				should be configured for File services	
	Page NO. 73		Validation of the Storage System	Please help to remove the clause , as different storage vendors and models might be compatible with different VMS applications and may become a bottleneck in future , In case needed the selected VMS application vendor and the selected storage Vendor may run a demo for a specified period to validate	clarified above
	Page NO. 73				The required memory is 192GB. However apart from 192GB memory if additional memory is required, the same needs to be achieved by extending the system cache by adding SSD.
	Page 69	SAN Storage, Section VIII	Memory and HDD Support	the extension of Cache capability by adding high performance SSD drives is specific to few OEM's , the clause may be more generalised and should be inline with previous point.	The required memory is 192GB. However apart from 192GB memory if additional memory is required, the same needs to be achieved by extending the system cache by adding SSD.
				since the required storage is 1.5 and may scale to approx 50% of the current capacity , hence the	No Change in tender specification.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 35 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				number of minimum drives may be reduce to 240-250 (Approx)	
	Page 70			since the requested drives are NL-SAS and the required functionality is CCTV recording therefore NVMe may not be needed and hence may be made optional or removed.	No Change in tender specification.
	Page 70	SAN Storage, Section VIII	Host Connectivity and Storage Backend Disk Connectivity	since the requirement is for a SAN storage and there may be several VMS solutions which may write data in Block format hence the caluse may be changed to Block/or/File or only Block. Also Block level storage boxes have high performance as well as high scalability.	No Change in tender specification.
	Page 70	SAN Storage, Section VIII	VMS Validation on the Storage System	Please help to remove the clause , as different storage vendors and models might be compatible with different VMS applications and may become a bottleneck in future , In case needed the selected VMS application vendor and the selected storage Vendor may run a	Amended through addendum of this corrigendum: System Integrator shall be responsible for the compatibility between VMS OEM and storage proposed. Tested and validated across Servers, Storage and cameras..

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 36 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				demo for a specified period to validate	
	Page 71	SAN Storage, Section VIII	Storage Software Licenses	It appears that Only NL-SAS drives are required as per the below mentioned specifications , asking for all the feature licenses will only increase the BOM , please clarify if still all licenses are needed.	No Change in tender specification.
	Page 72	SAN Storage, Section VIII	Remote Application should be changed to remote replication	since there is only one stoarge requirement mentioned in RFP why do we need remote replication, if needed the remote replication may be procured later	No Change in tender specification.
	Page 73	SAN Storage, Section VIII	Data In place upgrade	since the required storage is for 1.5 PB NL-SAS and approx 50% of current capacity may be scaled in future summing upto 2.2PB , the enterprise level SAN boxes are highly scalable to even % PB and there might not be any need to upgrade to higher model , though the same can be achived if needed , kindly make this clause optional	No Change in tender specification.
	Page 73	SAN Storage, Section VIII	Additional features	if NAS shares are needed to be created , it is not necessary to have File/NAS capability for entire storage capacity , infact it can be sized with more precion and only a specific %age of storage capacity	No Change in tender specification.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 37 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				should be configured for File services	
	Page 74	SAN Storage, Section VIII	Validation of the Storage System	Please help to remove the clause , as different storage vendors and models might be compatible with different VMS applications and may become a bottleneck in future , In case needed the selected VMS application vendor and the selected storage Vendor may run a demo for a specified period to validate	clarified above
	Page 78	Video Analytics Processing/Application Server, Section VIII	Storage	should be changed 10K RPM/15KRPM and SSD , NVME , also multiple vendors have announced EOL for 15K RPM drives	Amended through addendum of this corrigendum: For VMS Server, Recording Server, Analytics Server and Facial Recognition Server, the storage drives RPM may shall be 10K RPM or better.
				should be changed 10K RPM/15KRPM and SSD , NVME , also multiple vendors have announced EOL for 15K RPM drives	Amended through addendum of this corrigendum:
			Optical Drive	Kindly change to Internal/external	Internal
	Page 76	VMS/Backup Application Server,	Storage	should be changed 10K RPM/15KRPM and SSD , NVME , also multiple vendors have	Amended through addendum of this corrigendum:

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 38 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

		Section VIII		announced EOL for 15K RPM drives	
				should be changed 10K RPM/15KRPM and SSD , NVME , also multiple vendors have announced EOL for 15K RPM drives	Amended through addendum of this corrigendum:
	Page 77		Optical Drive	kindly change to Internal/external	Amended through addendum of this corrigendum:
	Page 77	Video Recording Server Specification, Section VIII	Storage	should be changed 10K RPM/15KRPM and SSD , NVME , also multiple vendors have announced EOL for 15K RPM drives	Amended through addendum of this corrigendum:
				should be changed 10K RPM/15KRPM and SSD , NVME , also multiple vendors have announced EOL for 15K RPM drives	Amended through addendum of this corrigendum:
			Optical Drive	kindly change to Internal/external	Amended through addendum of this corrigendum:
	Page 39	Point-13, Section VII	Interfacing of existing Access control System with the new CCTV system and providing alert in the VMS. (Approx. 20	As we understood existing VMS is integrated with Access controller system. Can you provide details which type of alert need to be integrate with new CCTV system?	Make: Godrej Model : IQPEC controller Type : 32 bit microprocessor based

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 39 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

			Nos. access controllers)	Can you provide make & model no of existing controller with SDK API details available for integration? Is it ACS Software to VMS software integration or ACS controller to VMS software integration? Considering these are legacy controller devices and both are separate system can you put this SCOPE to ACS OEM Only. VMS shall provide Open format SDK	Force door open alert is required to be integrated with CCTV system. BNPM will arrange to provide the SDK API of Access control system.
	Page 35	SECTION VI – LIST OF REQUIREMENTS Form : B2	Servers & Workstations	Kindly confirm server redundancy is required as N:N or N:1	N:1
				Is there requirement of redundancy server for Analytics server as well. If Yes, please confirm will it be N:N or N:1	No
				Please share the details (Make, Model, Year of installation, current condition etc.) of the existing workstations.	Details provided in corrigendum no. 03, part B
				We understand that the existing PC's available at site shall be utilized and our scope is limited to only upgrade them. No new workstations are required to be supplied. In case of requirement of any new workstation, same will be in purchaser's scope.	No new work station PC are required. Only upgradation of existing workstation - 11 Nos for viewing VMS client application with H.265 compression.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 40 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

					OS Upgradation to the latest version of windows at the time of bid.
		SECTION VI – LIST OF REQUIREMENTS Form : B2	Storage	Please specify the quantity of the KVM switches required along with its technical specifications.	Vendor may assess the requirement and propose accordingly.
	Page 36	Point -6(c) SECTION VI – LIST OF REQUIREMENTS Form : B2	New network infrastructure including upgradation	Please share the details (Year of installation, current condition etc.) of the existing switches.	Year of installation : 2014 current condition: working good, currently under AMC by existing cctv vendor.
				We understand that here the requirement is asking for either upgradation of the existing switches or the supply of new switches as per the given specifications. In case the bidder opts for the upgradation of the already existing switches instead of supplying the new ones, the same will be done by providing 2X10G SFP+ ports	Yes. As per tender scope
	Page 36	Point -7(a) SECTION VI – LIST OF REQUIREMENTS	Cabling and associated works	Please share the quantity of all the cables required.	Vendor may assess the requirement.
				Will there be any concealed or underground type cabling work? If yes, please share the quantity of civil work involved. Please also	Vendor may assess the requirement.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 41 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

		Form : B2		share the soil type for excavation works (Hard Soil or Soft Soil?)	
				Please also share the quantity, type and size of the conduits required for the laying of the different types of cables.	Vendor may assess the requirement.
		Point -7(b) SECTION VI - LIST OF REQUIREMENTS		Is this cable armored or unarmored? Kindly confirm the same.	Unarmored
		Form : B2			
	Page 36	Point -8(a) SECTION VI - LIST OF REQUIREMENTS	Power Distribution System	Please share the quantity of the required cable.	Vendor may assess the requirement.
		Form : B2		Is this cable armored or unarmored. Kindly confirm the same.	armored
				Will this cable be installed on walls using saddles or will this be laid as concealed or underground?	as per site location
		Point -8(b) SECTION VI - LIST OF REQUIREMENTS		We understand that UPS quantity 2 nos. is inclusive of the redundant UPS.	Yes
		Form : B2			
	Page 36	Point -8(d) SECTION VI - LIST OF	Power Distribution System	The quantity for this item is 10 nos.; however, the quantity for	No change in tender BOQ.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 42 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

		<p>REQUIREMENTS</p> <p>Form : B2</p>		<p>outdoor rack is 09 nos. as per the BOQ. Kindly clarify the same.</p>	
		<p>Point -9(b) SECTION VI – LIST OF REQUIREMENTS</p> <p>Form : B2</p>	<p>Civil works</p>	<p>Please share the quantity and the soil type (Hard soil or soft soil)</p>	<p>Vendor to assess the requirement.</p>
	Page 36	<p>Point -10(a) SECTION VI – LIST OF REQUIREMENTS</p> <p>Form : B2</p>	<p>Cable Trays and associated material</p>	<p>Please share the quantity of the required cable trays along with complete Technical Specification and accepted makes.</p>	<p>Vendor to assess the requirement.</p> <p>Standard make of cable trays, casing, conduits etc to be used. Prior approval before the material supply to be taken from BNPM</p>
	Page 36	<p>Point - 12 SECTION VI – LIST OF REQUIREMENTS</p> <p>Form : B2</p>	<p>Cable Trays and associated material</p>	<p>Please share the details of the existing NMS application.</p>	<p>Details given in Corrigendum No. 03, part B</p>
	Page 37	<p>Point - 15 SECTION VI – LIST OF REQUIREMENTS</p>	<p>Cable Trays and associated material</p>	<p>Please share the complete details of the existing infrastructure that needs to be undertaken the AMC along with the new components</p>	<p>Cameras: 31 Nos NMS server : 01 Nos Recording Server: 01 Nos (to be used as antivirus server) Distribution Switch: 16 Nos</p>

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 43 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

		Form : B2		being provided under this scope of work.	Access swith : 13 Nos CCTV clients : 11 Nos Client Monitors : 13 Nos Entire network infrastructure for the existing CCTV system.
	Page 37	Form B5: Buyback offer for Existing CCTV & Servers	Buyback	What is the year of installation & current condition of the items listed under the scope.	Year of installation : 2014 current condition: working good, currently under AMC by existing cctv vendor.
	Page 38	SECTION VII – TECHNICAL SPECIFICATIONS	Specific Requirements	Please share the complete details of the existing access control system and also specify under which line item should we consider this cost.	Details provided above
	Page 39			Under which line item to consider this cost.	Manpower support during warranty period has to be covered in the value, warranty and support of line items supplied through this tender. AMC cost (breakup of AMC cost and Manpower cost to be provided) ESI, PF etc. statutory documents to be provided along with the AMC bill
	Page 39	SECTION VII – TECHNICAL SPECIFICATIONS	Existing Infrastructure of the CCTV System	Do we have to consider the existing cameras also while designing the server and storage?	Not required. Total 300 Nos cameras to be considered for server and storage requirement as per the scope of tender.

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 44 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

	Page 45	SECTION VII – TECHNICAL SPECIFICATIONS	E) Scope of work for Comprehensive AMC	We understand 2 Nos. resident engineers to be stationed for 2 year warranty period and 3 years AMC period as well. Please confirm our understanding.	Yes
				Do we have considered these spare quantities in the price bid as well.	Since the minimum listed items are kept as active spare during the contract period, the same shall not be considered for the price bid. However, these items shall be returned back after completion of contractual obligations. The items mentioned here is minimum, however vendor may supply and maintain additional items if required at site for upkeeping of the system.
	Page 40	SECTION VII – TECHNICAL SPECIFICATIONS	General Requirements of the system	Kindly confirm do you require redundancy for all the switches in the BOQ.	Redundancy for core and distribution switches is sufficient. Already redundancy of distribution switches is maintained in existing infrastructure. Being core switch requirement - 2 Nos, redundancy will be maintained.
	General		Repair of faulty devices	"scope on failure of these products during warranty and AMC period?	Repairing/replacement of items in Existing infrastructure mentioned in the tender during

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 45 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

				Replacement cost?"	the two years warranty period shall be done by bidder. However, spares required for the above work will be in the scope of BNPM Note: If the failure is due to negligence of vendor deployed manpower, the replacement/ repair cost should borne by the vendor."
	Page no. 69 to 74	Section VIII	San storage	The Proposed Storage System should be configured with Minimum 1500TB Usable Capacity using minimum 8/ 12/14 TB NL-SAS Drives.	only 12/ 14TB drives to be considered.
	Page No. no. 75 and 76	Section VIII	Antivirus	No. of client antivirus required	Antivirus Server: Server application to be installed on existing Recording Server Antivirus Client license to be installed on 19 Nos of existing Client PCs connected in the network. Additional client licenses to be provided for the newly proposed servers, storge, client Pcs needs to be considered. The proposed antivirus software should have provision to add

BANK NOTE PAPER MILL PRIVATE LIMITED

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020

TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU

Sheet. 46 of 46

CORRIGENDUM NO. 4(CLARIFICATIONS)

					additional client licenses in future and configure the same in server. Cost of the additional licenses would be in scope of BNPM.
	Page No. 60 and 68	Section VIII	Cameras	Type of camera - Bullet or Dome	Bullet camera with verifocal lens to be considered.
				An External memory card / USB or equivalent, allowing switch firmware, configurations to be stored for backup and distribution to other switches	An External memory card / USB or equivalent, allowing switch firmware, configurations to be stored for backup and distribution to other switches Minimum 2GB DRAM/SDRAM is required.
	Section VIII		BOQ	upgradation scope clarification	Upgradation of existing 11 Nos of CCTV client PCs covers any additional Processor, RAM etc required for viewing VMS client application with H.265 compression. Further Operating system of these 11 Nos client PCs to be upgraded to windows 10 latest 64 bit.
	Section VII		Cabling	specification not available for Cat-6A indoor cable	Specification of Cat-6A indoor is given in corrigendum no. 03, Part A. Quantity may be considered as only 1000 mtr. However, installation will be paid on actual cable laid.