

BNPM/NCB/CCTV/0483/2020-21 Dated 23.10.2020	BANK NOTE PAPER MILL PRIVATE LIMITED	SHEET 1 of 41
	TENDER DOCUMENT FOR UPGRADATION OF CCTV SYSTEM AT BNPM PLANT, MYSURU CORRIGENDUM NO. 4 (ADDENDUM)	

CORRIGENDUM No. 4, DATED 07.01.2021

(ADDENDUM)

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**

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CORRIGENDUM NO. 4 (ADDENDUM)		

1.0 SCOPE OF THIS CORRIGENDUM

- 1.1 This corrigendum dated 07.01.2021, is issued for amendment/clarifications to queries raised during pre-bid meeting and 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 REVISION TO THE TENDER: -

2.1 Section 01:

S No.	Reference Location	Existing Provision	Shall be read as
<u>1</u>	Page no. 03	Closing date and time for receipt of tenders 18-01-2021 - 1500 Hours	Closing date and time for receipt of tenders 27-01-2021 - 1500 Hours

2.2 Section 02(a):

S No.	Reference Location	Existing Provisions	Shall be read as
1.	SECTION VI, Note 01 (Page 37)	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.	No. of servers and specification of the servers to be used (BOQ table01 (line-item 3(a) and (b)) to be provided along with Specification of each item.
2.	SECTION VI, Note 04 (Page 37)	<u>New addition</u>	Repairing of items in Existing infrastructure mentioned in the tender during the two years warranty period shall be done by bidder. However, spares required for the above work will be in the scope of BNPM
3.	SECTION VII, Specific Requirements: Point 05 (Page 38)	Upgradation of the existing network from 1G to 10G by providing additional High-speed module 10G fiber in existing Allied Telesis Core Switch - 2 Nos (Switch Blade X908), replacement of 1G SFP module with 10G SFP modules in Allied Telesis Distribution Switch - 16 Nos (X510-28GPX)	Upgradation of the existing network from 1G to 10G by providing replacement of 1G SFP module with 10G SFP modules in Allied Telesis Distribution Switch - 16 Nos (X510-28GPX) or by providing New distribution switches.

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		or by providing New Core Switches and distribution switches.	
4.	SECTION VII, Video Management Software, Sl 14 (d)ii. Event activated recording, Point 3 (Page 49)	... For example, when an alarm is detected on a security door, the alarm shall give the user the option to move the fixed lens Box type camera to a preset position, 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, ...
5.	SECTION VII, Video Management Software, Sl. 15 (Page No. 53) cameras for 7 days at 1080p, 25 fps, H.265, H.264 compression. After 7 days the video recordings..... cameras for 5 days at 1080p, 25 fps, H.265, H.264 compression. After 5 days the video recordings.....
6.	SECTION VII, Video Management Software, Sl 17(a) (Page 53)	The video management system shall graphically display device states on its icons in the logical tree structure and on sitemaps.	The video management system shall display device states on its icons in the logical tree structure and on sitemaps.
7.	SECTION VII, Video Management Software, Sl. 20(c) (Page 55)	The Diagnostics applications shall provide a unified user interface for running tests, recording system activity, collecting diagnostic information and viewing system log files.	The Diagnostics applications shall provide a unified user interface for recording system activity, collecting diagnostic information and viewing system log files.
8.	SECTION VII, Video Management Software, Sl. 21(a) (Page 56)	Video Management System Client shall functions.	<i>The clause stands deleted</i>
9.	Section VIII, Sl. 1(1) Image Sensor (Page 60)	1/2.8" - 1/3" Progressive CMOS or better	Minimum 1/2.9" Progressive CMOS
10.	Section VIII Si no. 01 of Section VIII of page 60 (Bullet Indoor)	1/2.8" - 1/3" Progressive CMOS or better	Minimum 1/2.9" Progressive CMOS
11.	Section VIII, Sl. 2(12) IR Range (Page 62)	40 mtr or above	30 mtr or above
12.	Section VIII Si no. 01 of Section VIII of page 63 (Bullet Outdoor)	1/2.8" - 1/3" Progressive CMOS or better	Minimum 1/2.9" Progressive CMOS
13.	Section VIII, Sl. 24 - Network protocols (Pages 61, 63, 65 and 68) and Sl. 29 - Network protocols (Pages 67), CIFS/SMB, ..., PPPoE, ...	CIFS/SMB and PPPoE protocols stands <i>deleted</i>
14.	Section VIII, Sl. 3(12) IR Range (Page 64)	50 mtr or above	30 mtr or above
15.	Section VIII, Sl. 3(12) IR Range (Page 65 Si no. 01 of Section VIII of page	1/2.8" - 1/3" Progressive CMOS or better	Minimum 1/2.9" Progressive CMOS

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	65 (IP PTZ Outdoor camera)		
16.	Section VIII, Sl. 4(4) - Video Resolution (IP PTZ Outdoor camera) (page 65)	Minimum 3 MP and above	Minimum 2 MP
17.	Section VIII, Sl. 4(40) - (IP PTZ Outdoor camera) (page 67)	<u>New addition</u>	Pan speed: 0.1° ~ 200°/sec or better Tilt speed: 0.1° ~ 150°/sec or better
18.	Section VIII Sl. no. 01 of (IP 4K Fixed camera) (page 67)	1/2" or better type CCD/CMOS/MOS Sensor.	Minimum 1/2.5" CCD/CMOS/MOS Sensor
19.	Section VIII, Sl. no. 5(5) - Lens (IP 4K Fixed camera) (page 67)	4-13 mm	4-13 mm varifocal Lens or better
20.	Section VIII, (Validation of the Storage System) (Page no. 70 and 74)	The Proposed Storage System should be tested and validated jointly by the VMS Application OEM & Storage OEM. The Validation white paper for the same to be submitted as a part for the Storage System Compliance documentation.	System Integrator shall be responsible for the compatibility between VMS OEM and storage proposed. Tested and validated across Servers, Storage and cameras.
21.	Section VIII, Sl. No. 8(7), 9(7), 10(7), 11(7) and 12(7) (Operating system-servers) (page 76,77,78 and 79)	Microsoft Windows Server 2016 and above / latest (64 bit) Standard Edition/Linux. License Copy would be in the name of BNPM	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
22.	Section VIII of (Security-servers) (page 76,77,78,79)	<ul style="list-style-type: none"> • VMS/Backup Application servers • Video Recording Server • Video Analytics processing/Application Server • Facial Recognition System Server 	<u>New addition to following server specs</u> Configuration upgrades should only with Cryptographically signed firmware, Secure Boot, Secure Erase etc.
23.	Section VIII, Video Analytics Processing/Application Server specs table (Page 78)	Video Analytics Processing/Application Server specs table	<u>Specs table stands deleted</u>
24.	Section VIII, Si No. 11 (Page 78)	11.Facial Recognition System Server (<i>Heading</i>)	11.Facial Recognition System Server and Video Analytics Processing/Application Server

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25.	Section VIII, Sl. No. 11(8)(Licensed Software) (page 79)	Microsoft SQL 2016 standard edition and associated software. License Copy would be in the name of BNPM	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.
26.	Section VIII, Sl. No. 8(3), 9(3), 10(3) and 11(3), (Page 76, 77, 78 and 79 respectively)	2 x 600GB SAS (15k RPM) configured as RAID1 for OS (<i>Server specs</i>)	2 x 600GB SAS/SSD/NVME (10k RPM or above) configured as RAID1 for OS
27.	Section VIII, Sl. No. 8(10), 9(10), 10(10) and 11(10), (Page 76, 77, 78 and 79 respectively)	DVD +/-RW	DVD +/-RW (Internal)
28.	Section VIII, (Video analytics) (page 82)	<i>New addition</i>	75% accuracy to be achieved
29.	Section VIII, Sl. 15(13) (Mounting - Core switch) (page 87)	Mounting:3RU	Mounting:3RU/4RU
30.	Sl no. 08 of Section VIII of page 87 (Core switch)	<i>New addition</i>	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
31.	Section VIII Sl. no. 17(4) (Edge switch) (page 91)	The proposed VSS or equivalent technology should support high availability for both Layer 2 and Layer 3 (RIP, OSPF) Including for IP Multicasting (PIM- SM, PIM-DM), for video applications to ensure hitless failover	<i>The clause stands deleted</i>
32.	Section VIII Sl. no. 17(9) (Edge switch) (page 92)	Optical digital diagnostic monitoring as per SFF- 8472 or equivalent standards for 1G SFP and 10G SFP+ ports	<i>The clause stands deleted</i>
33.	Section VIII, Sl. 22 (1), (Armored Power Cable) (Page 96)	3 core, 6 sq mm	3 core, 4 Sq mm
34.	Section IX General category (06 th row) (page no. 102)	ii. Valid authorized dealership certificate issued by Manufacturer.	ii. Authorization certificate from OEM has to be submitted for this tender.

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35.	Section IX – Eligibility Criteria - Experience and past performance category of (page no. 102)	Bidder should have carried out similar project involving CCTV camera, Servers, storage and networking in last five years ending 30/09/2020 in either of below: a) 01 similar project completed at value of 6.4 crores (or) b) 02 similar projects at value of 4 crores (or) c) 03 similar projects at value of 3.2 crores.	Individual bidder/primary bidder of consortium should have carried out project involving CCTV camera, Servers, storage and networking in last five years ending 30/09/2020 in either of below: a) 01 project completed of value Rs. 6.4 crores (or) b) 02 projects of value Rs. crores (or) c) 03 projects of value Rs. 3.2 crores. <u>(Lead company/Primary bidder and project: As per amendment in this corrigendum no. 4)</u>
36.	Section IX – Eligibility Criteria - Financial standings category of (page no. 102)	a) Average annual turnover of the bidder firm during last three financial year's period ending 31.03.2019 should be more than Rs. 2,40,00,000/- (Rupees two crores forty lakhs only)	Average annual turnover of individual bidder/primary bidder of consortium, during last three financial year's period ending 31.03.2019, should be more than Rs. 2,40,00,000/- (Rupees two crores forty lakhs only)
37.	Section IX – Eligibility Criteria - Financial standings category of (page no. 102)	b) Bidder firm should not have suffered any financial loss for more than one year during the last three financial year's period ending 31.03.2019.	Individual bidder/primary bidder of consortium should not have suffered any financial loss for more than one year during the last three financial year's period ending 31.03.2019.
38.	Section IX – Eligibility Criteria - Financial standings category of (page no. 103)	c) Net worth of the bidder firm should not be in negative as on 31.03.2019 and should have not eroded** by more than 30% in the last three financial year's period ending 31.03.2019.	c) Net worth of the individual bidder/primary bidder of consortium should not be in negative as on 31.03.2019 and should have not eroded** by more than 30% in last three financial years ending 31.03.2019.
39.	Section VI, Sl. 1(b) (qty) (Page No. 35)	Qty: 66	Qty: 67
40.	Section VII, Pt. 02 (Specific requirement) (Page No. 38)	Supply and Installation of the 66 Nos...	Supply and Installation of the 67 Nos
41.	Section VII, Sl. A(I)	... installation of new 66 Nos.	... installation of new 67 Nos.

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	(detailed scope of work) (Page 42)	cameras...	cameras...
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2.2(b) SECTION 02(b): (Addition to Section XI, Eligibility criteria)

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

Eligibility clause (Experience & Past Performance)	Value of project	Experience (Similar project) <u>Categories</u>	Lead Company/Primary bidder (only in case of consortium) <u>Categories</u>
		1. CCTV camera 2. Servers 3. Storage and 4. Networking	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.	



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2.3 Section 3: Revised Form B2 Section VI. List OF requirements (Page 35 to 37)
(Revision dated 07/01/2021)

Supply, Installation, Testing & Commissioning of IP CCTV system			
Sl.No.	Description	UOM	Qty
1	IP Cameras		
(a)	IP Dome Outdoor IR Cameras minimum 3MP, Fixed (Varifocal), IR , POE, along with all required accessories such as mounting, housing, fixtures, Power supply, Patch cards etc	Nos.	136
(b)	IP Bullet Indoor IR Cameras, minimum 3MP, fixed (IR), Varifocal, POE, along with all required accessories such as mounting, housing, fixtures, Power supply, Patch cards etc	Nos.	67
(c)	IP Bullet Outdoor IR Cameras, minimum 3MP, fixed (IR), Varifocal, POE, along with all required accessories such as mounting, housing, fixtures, Power supply, Patch cards etc	Nos.	38
(d)	IP PTZ Outdoor Cameras minimum 3MP with IR along with all required accessories such as mounting, housing, fixtures, Power supply, Patch cards etc	Nos.	11
(e)	Facial Recognition IP 4K camera with all required accessories such as mounting, housing fixtures, power supply, patch cords, etc	Nos	02
2	VMS and VAS Software - Enterprise edition & scalable		
(a)	Licenses required for the Video Management Server and Video Recording Servers & Storage Servers, Work station clients with bundled lifetime licenses for 300 cameras	Lumpsum	1
(b)	Analytic software Licenses along with facial recognition software licenses for 66 No. Cameras	Lumpsum	1
3	Servers & Workstations		
(a)	Servers required for Video Management, Recording & Storage for handling 300 Nos. cameras including redundancy with minimum 5 days backup at server level	Lumpsum	1
(b)	Servers required for Video Analytics and Facial Recognition	Lumpsum	1

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	System for 66 Nos. cameras		
(c)	Upgradation of existing workstation client PCs for viewing VMS client application with H.265 compression and Full HD resolution	Lumpsum	1
(d)	Client work stations for FRS with all accessories	Nos.	02
4	Storage		
(a)	Backup SAN storage with dual controller for maintaining camera recording backup of 250 cameras for 90 days & 50 cameras for 365 days backup with full HD at minimum 25fps. Minimum 1500TB usable, capacity expandable upto 2250TB or 50 % more than the usable storage offered, whichever is higher along with all necessary accessories for configuring to the system. (usable storage is after Raid 6 configuration)	Lumpsum	1
(b)	Network Rack 42 U Indoor type for mounting SAN storage, additional servers/ workstations with all accessories (Monitor, KVM etc all)	Nos	1
5	New network infrastructure including upgradation		
(a)	Network Rack 9 U Outdoor type to be mounted on GI pole, with all accessories.	Nos	9
(b)	Supply of New Layer 3 core switches with minimum 24X10/100/1000 Mbps Base-T ports, 12 X 1/10G SFP + ports, 2 X 40G QSFP ports along with SFP+ modules and other accessories, whichever are required.	Nos	2
(c)	Upgradation of existing distribution switch for handling 10G Fiber network by providing minimum 2X10G SFP+ ports for upgrading existing network from 1G to 10G (or) Supply of New Layer 2 Distribution Switches with 24X10/100/1000 with POE+ supported ports, should have min 2X10G SFP+ ports and 2X1G SFP, along with SFP+ modules and other accessories, whichever are required.	Nos	16
(d)	Edge Switch - Industrial Grade - with minimum 8 pots of 10/100/1000 Mbps Base-T POE+ supported ports. Should have minimum 4 X 1G SFP ports fully loaded with accessories including	Nos	10

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	LIU, SFU modules, patch cords, pig tails etc.		
6	Cabling and associated works		
(a)	Supply and installation of all necessary cables required for completing the new CCTV network infrastructure work along the periphery wall (around 45 Nos of cameras) such as ethernet CAT-6A cable for outdoor, CAT-6A for indoor, 12C single mode OFC cable, earthing cables etc. including double compression nickel plated brass cable glands, cable ties and termination accessories.	Lumpsum	1
(b)	Supply and installation of Cat-6A(indoor) UTP cable for 15 cameras	mts	1000
7	Power Distribution System		
(a)	Supply and Installation of 3Cx 4 sq.mm power cable for powering up the network racks installed along the periphery wall	Lumpsum	1
(b)	Supply and Installation of Online Single Phase 5kVA and above UPS- 2Nos in parallel redundant operation along with all necessary accessories and battery backup of 30 minutes	Nos	1
(c)	Earthing for UPS and & GI poles	Nos	18
(d)	Power Distribution including surge protection for outdoor Racks along the periphery wall.	Nos	9
(e)	Power Distribution in the CCTV server room for the new network rack (42U) and servers	Lumpsum	1
8	Civil Works		
(a)	Supply and Installation of GI Pole upto 18 feet along with required accessories and junction box, including foundation work etc	Nos	18
(b)	Supply and Installation of HDPE pipe of 40mm dia. including excavation & backfilling soil where ever required	Lumpsum	1
9	Cable Trays and associated material		
(a)	All necessary cables trays including standard cable trunking with casing, standard cable fasteners, GI conduits with necessary	Lumpsum	1

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	supports required for routing the cables wherever required		
10	Antivirus Software with Server- client architecture for the servers, storage, workstation etc (Existing Server to be used)	Lumpsum	1
11	Configuring new switches in existing NMS application for monitoring, troubleshooting, managing, traffic of existing and new network along with training	Lumpsum	1
12	Documentation, testing report, Tagging and Labelling works along with Training	Lumpsum	1
13	Special Tools & Tackles	Lumpsum	1
14	Comprehensive AMC of the entire CCTV system including the existing infrastructure & CCTV system including Onsite resource after the completion of the warranty period of two years.	years	3

**2.4 Section 04: List of Approved makes table amended as below
(Section VIII, Si No. 25, Page no. 98)**

Sl. No.	Equipment	Approved makes	Compliance (Yes/No)
1	Cameras	Axis, Bosch, Pelco, Panasonic, American Dynamics, Vivotek, Honeywell or equivalent reputed make	
1	Camera Lens	Axis, Bosch, Pelco, Panasonic, American Dynamics, Vivotek, Honeywell or equivalent reputed make	
2	Video Management Software	Axis, Bosch, Pelco, Milestone, Panasonic, Videonetics, Genetec, Godrej, Siemens or equivalent reputed make	
3	Video Analytics Software	Axis, Bosch, Pelco, Milestone, Panasonic, Videonetics, Genetec, Allgovision, Godrej, Ironyun, Awiros, ViSEE or equivalent reputed make	

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3	Facial Recognition Software	NEC, Cognitec Neurotechnology, 3M Cogent, Panasonic, Anyvision, Allgovision, Milestone, Videonetics, Ironyun, Awiros, Genetec, ViSEE or equivalent reputed make	
4	Servers	HP, Dell, IBM, Cisco, Lenovo	
5	Storage	HP, Dell, IBM, EMC, Netapp, Hitachi, Veritas, Veeam or equivalent reputed make	
7	Layer - 3 Network Switches	Allied Telesis, Cisco, HP, Juniper or equivalent reputed make	
6	Layer - 2 Network Switches	Allied Telesis, Cisco, HP, Juniper or equivalent reputed make	
8	Edge Layer-2 Industrial Outdoor switches	Allied Telesis, Cisco, HP, Juniper or equivalent reputed make	
9	Work stations	HP, Dell, IBM, Cisco, HCL, Lenovo or equivalent reputed make	
10	UPS	APC, Consul, Fuji Electric or equivalent reputed make	
11	Armoured Cat 6A cable & 12 core OFC cable	Tyc, Crestron, Extron, Schneider, Finolex, Digilink or equivalent reputed make	
	Unarmoured Cat6A cable	Tyc, Crestron, Extron, Schneider, Finolex, Digilink or equivalent reputed make	
12	Power Cable	Polycab, Finolex, Havells, V-Guard or equivalent reputed make	
13	Equipment Racks	Rittal, Dell, IBM, APW, Schneider, Netrack or equivalent reputed make	
14	Power Distribution Box	Legrand, L&T, Havells, Schneider, Hager or equivalent reputed make	
15	Modular switch and sockets and I/O boxes	Anchor, Roma, Legrand or equivalent reputed make	
16	Rigid PVC conduit	Any brand with ISI mark	
17	Antivirus	McAfee, Norton or equivalent reputed	

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Note: For any equivalent product (or) make of the product listed above, approval needs to be obtained from BNPM prior to bid submission. BNPM reserves the right to treat the bid as unresponsive if no prior approval is obtained for any equivalent product (or) make of the product.
The approval request has to reach BNPM 10 days prior to Closing date of tender.
Equivalent model/products specification document along with satisfactory performance certificate from project's representative where the product/make is already in use.

2.5 **Section 05:**

Video Content Analytics (New addition to Section VII Sl. F (22)) (Page 56)

- (a) All Video Analytics offered should be Server Based Enterprise version and upgradable to a new version or patches.
- (b) The software offered shall have seamless integration to the Video Management Software. Integration should be possible among multiple branded VMS and cameras.
- (c) The Video Analytics platform should provide the user a highly reliable, truly versatile, scalable, unified, enterprise-class video analytics and management suite.
- (d) The Video Analytics should be an open platform and all different video Analytics should be on the same platform.
- (e) Events from the Video Analytics system shall be passed back to the VMS to start a recording and generate an alarm of configurable priority.
- (f) Different time-based configuring of analytics on different camera should be possible. Independent analytics settings for every camera should be possible.
- (g) The licenses associated to Video Analytics should be deployed on any of the cameras dynamically and should not be tagged to the MAC address of the camera. If any one of the cameras is replaced for maintenance, the replaced camera should automatically use the VA configuration without modifying any license.
- (h) Optional feature of remote health monitoring of the camera in Analytics Software.
- (i) Below mentioned analytics are required:
 - 1) Facial Recognition - 2 Nos
 - 2) People Count - 2 Nos + 1 spare
 - 3) Perimeter Intrusion - 30 Nos + 4 spare
 - 4) Un attended Object Detection - 06 Nos + 1 spare
 - 5) Shutter Open Close - 11 Nos
 - 6) Door Open Close - 09 Nos
- (j) All the licenses should be perpetual type.
- (k) Forensic search including zoom in facility for the above analytics shall be available.

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(l) Offline Video Search Capabilities shall be part of the system with search detection of different object types, vehicles, people – age, gender, animals, color, quantity, attributes etc.

(m) For cameras where there is no analytics, by uploading video feed from storage and do an offline video analytics.

(n) Quick face search detection across multiple cameras for missing person

(o) The software should support different analytics which will be deployed in future. Only license for the same will be purchased at a later date. Any update of software during the contract period should be provided without any additional cost.

(p) Instant playback video of recorded event: 10- or 20-second clip when the object/person of interest is detected, intrusion is detected etc.

Scope of work for Video Analytics, Facial Recognition shall include but shall not restrict to the following technical details for:

Supply, installation, testing and commissioning of required server and video Analytics software including Facial Recognition and licenses to configure on 60 cameras with 10% spare licenses

(i) Server Based Video Analytics:

- 1) Implementing Video Analytics for Cameras along the boundary wall and watch towers covering the inner perimeter of plant, and at other notified places according to the requirement.
- 2) The video Analytic features should be capable of alarming the events at Control Room to alert the Security Personnel.
- 3) Video Analytics should be deployed on any of the cameras dynamically and should not be tagged to the MAC address of the camera. If any one of the cameras is replaced for maintenance, the replaced camera should automatically use the VA configuration without modifying any license.
- 4) Integration of video analytics with the VMS.

(ii) Facial Recognition System

- 1) Facial Recognition System will be introduced at 2 location i.e at Main gate entrance & Admin Building Entrance and provision to extend the same to other notified locations wherever required in future.
- 2) The face recognition software algorithm should have participated in the latest NIST (National Institute of Standards and Technology) Face Recognition Vendor Test. The vendor shall submit the latest NIST evaluation report for the algorithm.
- 3) The Face recognition software offered should be running on minimum 04 CCTV cameras or more in any surveillance project from OEM or bidder.
- 4) The system shall allow generation of reports based on detection and identification alarms with relevant filters like date and time / category etc. The system shall permit reports to be exported in PDF / XLS formats for storage and review.

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- 5) The core FRS algorithm components should be upgraded without any additional cost to employ best in class Technology available at any given point of time during the contract.
- 6) The system should be flexible to be able to perform Face Recognition on any existing surveillance cameras without any change-over of licenses.
- 7) The system should have client server architecture with support for multiple clients who can be simultaneously logged either locally or remotely. The server components should be implemented as Services so as to be able to run in an uninterrupted manner even in absence of the GUI
- 8) The system should have 2 workstations- 1 in security office for enrolling of the employees and visitors and 1 in CCTV control room for monitoring and reporting.
- 9) One-time enrolment of employees (permanent, contract, CISF) needs to be carried out, or auto capture of the photo and enrolling thereafter should be possible. Further visitors should be enrolled based on their visitor pass number (generated from the existing visitor management software). Enrolment should be possible from the client workstation in security office.

Video Analytics Specification

- 1) Perimeter Intrusion Detection:
 - a) Detect and generate alarm when people, vehicles and other objects entering the restricted area defined.
 - b) Support multiple ROIs (Region of Interest) of any shape for different types of objects in the same frame
 - c) Support different sensitivity levels for detection and decrease false alarms.
 - d) High performance & accuracy in daytime, night time, indoors and outdoors
 - e) Pre & Post record duration to be stored.
 - f) Support intrusion detection based on object type, colors, quantities, and time frame etc.

- 2) People Count:
 - a) Count people and/or vehicle (multiple types) moving in various directions in real time
 - b) Enable user to define inbound vs. outbound direction for every counting line
 - c) Enable real-time alerts for abnormal behaviors:
 - d) - people/vehicle moving in the wrong direction
 - e) - person falling/crouching/loitering
 - f) Support multiple counting lines per camera field of view

- 3) Un-attended Object Detection:
 - a) If any object is kept near the fire exit door the video analytics should give real time alert
 - b) The object should be identified and the type of object should be shown in the video analytics
 - c) The Video Analytics should be able to differentiate and train different objects, so as to decrease false alarms.

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- d) High performance in daytime, night time, indoors and outdoors
- e) It should detect & generate alarm when objects that are left unattended for a specified period of time at both main and material gate.

4) Shutter / Door Open Close Alert:

- a) If the Shutter / Doors are open, the video analytics should give alert on real time basis
- b) Support different sensitivity levels to balance between fully open shutter, partial open shutter, Full Door Open, Partial Door Open
- c) High performance in daytime, night time, indoors and outdoors and decrease false alarms by orders of magnitude.
- d) Time based configuring should be possible.

2.6 Section 06:

Unshielded Twisted Pair (UTP) CAT 6a Cable (New addition under section VIII, QCC)

Sl. No.	Item Description	Specifications	Compliance (Yes/No)
1	Construction	Four twisted pair with marking of length at each meter	
2	Conductors	23 AWG x 8 Solid Bare Copper conductors	
3	Jacket Material	Low Smoke Zero Halogen (LSZH) / PVC	
4	Insulation / Separator Material	Polyolefin / PE / PVC	
5	Cable Type	U/UTP (unshielded)	
6	Operating Temperature	0-70 Degree C	
7	Colour Code	Grey	
8	General Specification	Cable should give 1 Gbps end-to-end solution Should be UL/ETL tested and verified for 1 G component performance. Should support applications like Gigabit Ethernet 1000 Base-T, Fast Ethernet 100 base-T, Ethernet 10 base-T, Token ring,	
9	Application	CCTV Indoor	

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2.7 Section 07:

Amendment to (Section XI - Price schedule) (Page 108 to 128) (Revision dated 07/01/2021)

Form B1 (category-wise total of items in Form B1, B2, B3, B4 and B5):

*Category wise total **should match** the total of item-wise price mentioned in form B2, B3 and B4*

Schedule No.	Description	Price for Supply (INR)					
		Basic unit Price (INR)	GST @ % (INR)	Total unit price (Incl. of GST) (INR)	Input Tax Credit for HSN/ SAC	Effective unit price (net of input tax credit)	Total Effective price (net of input tax credit)
1.	Supply, installation and commissioning of IP Cameras						
2.	Supply, installation and commissioning of VMS and VAS Software - Enterprise edition & scalable						
3.	Supply, installation and commissioning of Servers & Workstations						
4.	Supply, installation and commissioning of Storage						

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5.	New network infrastructure including upgradation							
6.	Cabling and associated works							
7.	Power Distribution System							
8.	Civil works							
9.	Cable Trays and associated material							
10	Antivirus Software with Server- client architecture for the servers, storage, workstation etc (Existing Server to be used)							
11	Configuring new switches in existing NMS application for monitoring, troubleshooting, managing, traffic of existing and new network along with training							
12	Documentation, testing report, Tagging and Labelling works along with Training							
13	Special Tools & Tackles							
14	Comprehensive AMC of the entire CCTV system including the existing infrastructure & CCTV system after the completion of the 02 years warranty period.							

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Total effective price (net of input tax credit) with GST and any other charges (D.A.P - Mysore site) in Figures (INR)	
Total effective price (net of input tax credit) incl. any other charges (D.A.P - Mysore site) in Words (INR)	
Total price incl. any other charges and GST (D.A.P - Mysore site) in Figures (INR)	
Total price incl. any other charges and GST (D.A.P - Mysore site) in Works (INR)	

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CORRIGENDUM NO. 4 (ADDENDUM)

Form B2 : Supply, Installation, Testing & Commissioning of IP CCTV system

Schedule No.	Description	UOM	Quantity (g)	HSN /SAC Code	Price for Supply (INR)					
					Basic unit Price (INR)	GST @ 18% (INR)	Total unit price (Incl. of GST) (INR)	Input Tax Credit for HSN/SAC	Effective unit price (net of input tax credit)	Total Effective price (net of input tax credit)
					(a)	(b)	(c)=(a)+(b)	(d)	(e)=(c)-(d)	(f)=(e)*
1.	Supply, installation and commissioning of IP Cameras									
(a)	Supply of IP Dome Outdoor IR Cameras 3MP and above, Fixed (Varifocal), IR, POE, along with all required accessories such as mounting, housing, fixtures, Power supply, Patch cards etc	Nos.	136							
(b)	Installation and commissioning of line-item 1(a)	Nos.	136							

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CORRIGENDUM NO. 4 (ADDENDUM)

(c)	Supply of IP Bullet Indoor IR Cameras 3MP and above, Fixed (IR), Varifocal, POE, along with all required accessories such as mounting, housing, fixtures, Power supply, Patch cards etc	Nos.	67							
(d)	Installation and commissioning of line-item 1(c)	Nos.	67							
(e)	Supply of IP Bullet Outdoor IR Cameras 3MP and above, Fixed (IR), Varifocal, POE, along with all required accessories such as mounting, housing, fixtures, Power supply, Patch cards etc	Nos.	38							
(f)	Installation and commissioning of line-item 1(e)	Nos.	38							

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CORRIGENDUM NO. 4 (ADDENDUM)

(g)	Supply, installation and commissioning of IP PTZ Outdoor Cameras 3 MP and above with IR along with all required accessories such as mounting, housing, fixtures, Power supply, Patch cards etc	Nos.	11							
(h)	Installation and commissioning of line-item 1(g)	Nos.	11							
(i)	Supply of Facial Recognition IP 4K camera with all required accessories such as mounting, housing fixtures, power supply, patch cords, etc	Nos.	2							
(j)	Installation and commissioning of line-item 1(i)	Nos.	2							

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CORRIGENDUM NO. 4 (ADDENDUM)

2.	Supply, installation and commissioning of VMS and VAS Software - Enterprise edition & scalable									
(a)	Supply of Licenses required for the Video Management Server and Video Recording Servers & Storage Servers, Work station clients with bundled lifetime licenses for 300 cameras	Lumps um	1							
(b)	Installation and commissioning of line-item 2(a)	Lumps um	1							
(c)	Supply of Analytic software Licenses for along with facial recognition licenses for 66 Nos. of Cameras	Lumps um	1							
(d)	Installation and commissioning of line-item 2(c)	Lumps um	1							

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CORRIGENDUM NO. 4 (ADDENDUM)

3.	Supply, installation and commissioning of Servers & Workstations									
(a)	Supply of Servers required for Video Management, Recording & Storage for handling 300 Nos. cameras including redundancy with minimum 5 days backup at server level.	Lumps um	1							
(b)	Installation and commissioning of line-item 3(a)	Lumps um	1							
(c)	Supply of Servers required for Video Analytics and FRS for 66 Nos. cameras	Lumps um	1							
(d)	Installation and commissioning of line-item 3(c)	Lumps um	1							

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CORRIGENDUM NO. 4 (ADDENDUM)

(e)	Upgradation of existing workstation client PCs for viewing VMS client application with H.265 compression and Full HD resolution	Lumps um	1							
(f)	Supply of Client work stations for FRS with all accessories	Nos.	2							
(g)	Installation and commissioning of line-item 3(f)	Nos.	2							

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CORRIGENDUM NO. 4 (ADDENDUM)

4.	Supply, installation and commissioning of Storage									
(a)	Supply of Backup SAN storage with dual controller for maintaining camera recording backup of 250 cameras for 90 days & 50 cameras for 365 days backup with full HD /25fps. Minimum 1500TB usable, capacity expandable upto 2250TB or 50 % more than the usable storage offered, whichever is higher along with all necessary accessories for configuring to the system. (usable storage is after Raid 6 configuration)	Lumps um	1							
(b)	Installation and commissioning of line-item 4(a)	Lumps um	1							

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CORRIGENDUM NO. 4 (ADDENDUM)

(c)	Supply of Network Rack 42 U Indoor type for mounting SAN storage, additional servers/ workstations with all accessories (Monitor, KVM etc all)	Nos.	1							
(d)	Installation and commissioning of line-item 4(c)	Nos.	1							
5. New network infrastructure including upgradation										
(a)	Supply of Network Rack 9 U Outdoor type to be mounted on GI pole, with all accessories.	Nos.	9							
(b)	Installation and commissioning of line item 5(a)	Nos.	9							

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CORRIGENDUM NO. 4 (ADDENDUM)

(c)	Supply of New Layer 3 core switches with minimum 24X10/100/1000 Mbps Base-T ports, 12 X 1/10G SFP + ports, 2 X 40G QSFP ports along with SFP+ modules and other accessories, whichever are required.	Nos.	2							
(d)	Installation and commissioning of line-item 5(c)	Nos.	2							

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CORRIGENDUM NO. 4 (ADDENDUM)

(e)	Upgradation of existing distribution switch for handling 10G Fiber network by providing minimum 2X10G SFP+ ports for upgrading existing network from 1G to 10G (or) New Layer 2 Distribution Switches with 24X10/100/1000 with POE+ supported ports, should have min 2X10G SFP+ ports and 2X1G SFP, along with SFP+ modules and other accessories, whichever are required.	Nos.	16							
(f)	Supply of Edge Switch - Industrial Grade - with minimum 8 pots of 10/100/1000 Mbps Base-T POE+ supported ports. Should have minimum 4 X 1G SFP ports fully loaded with accessories including LIU, SFU modules, patch cords, pig tails etc.	Nos.	10							

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CORRIGENDUM NO. 4 (ADDENDUM)

(g)	Installation and commissioning of line-item 5(f)	Nos	10							
6.	Cabling and associated works									
(a)	Supply and installation of all necessary cables required for completing the new CCTV network infrastructure work along the periphery wall (around 45 Nos of cameras) such as ethernet CAT-6A cable for outdoor, CAT-6A for indoor, 12C single mode OFC cable, earthing cables etc. including double compression nickel plated brass cable glands, cable ties and termination accessories.	Lumps um	1							

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CORRIGENDUM NO. 4 (ADDENDUM)

(b)	Supply and installation of Cat-6A(indoor) cable for 15 cameras	mts	1000							
7.	Power Distribution System									
(a)	Supply and Installation of 3Cx 4 sq.mm power cable for powering up the network racks installed along the periphery wall.	Lumps um	1							
(b)	Supply and Installation of Online Single Phase 5kVA and above UPS- 2Nos in parallel redundant operation along with all necessary accessories and battery backup of 30 minutes	Nos.	1							
(c)	Earthing for UPS and & GI poles	Nos.	18							

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CORRIGENDUM NO. 4 (ADDENDUM)

(d)	Supply and installation Power Distribution including surge protection for outdoor Racks along the periphery wall.	Nos.	9							
(e)	Supply and installation of Power Distribution in the CCTV server room for the new network rack (42U) and servers	Lumps um	1							
8.	Civil Works									
(a)	Supply and Installation of GI Pole upto 18 feet along with required accessories and junction box, including foundation work etc	Nos.	18							

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CORRIGENDUM NO. 4 (ADDENDUM)

(b)	Supply and Installation of HDPE pipe of 40mm dia including excavation & backfilling soil where ever required	Lumps um	1							
9.	Cable Trays and associated material									
(a)	All necessary cables trays including standard cable trunking with casing, standard cable fasteners, GI conduits with necessary supports required for routing the cables wherever required	Lumps um	1							
10.	Antivirus Software with Server- client architecture for the servers, storage, workstation etc (Existing Server to be used)	Lumps um	1							
11.	Configuring new switches in existing NMS application for monitoring, troubleshooting, managing, traffic of existing and new network along with training	Lumps um	1							

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CORRIGENDUM NO. 4 (ADDENDUM)

12.	Documentation, testing report, Tagging and Labelling works along with Training	Lumps um	1							
Total effective price (net of input tax credit) for CCTV Infrastructure Upgradation with GST and any other charges (D.A.P – Mysore site) in Figures (INR)										
Total effective price (net of input tax credit) for CCTV Infrastructure Upgradation incl. any other charges (D.A.P – Mysore site) in Words (INR)										
Total price for CCTV Infrastructure Upgradation incl. any other charges and GST (D.A.P – Mysore site) in Figures (INR)										
Total price for CCTV Infrastructure Upgradation incl. any other charges and GST (D.A.P – Mysore site) in Works (INR)										

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CORRIGENDUM NO. 4 (ADDENDUM)

Form B3: (Special tools and tackles to mentioned item-wise (if any))

Schedule No.	Description	UOM	Qty	HS N/SA C Code	Price for Supply (INR)									
					Basic unit Price (INR)	Freight, P&F, Transit Insurance & any other charges (INR)	Unit price (Incl. of Freight, P&F, Transit Insurance & any other charges)	GST @ _%	GST Amount (INR)	Total unit price (Incl. of Freight, P&F, Transit Insurance, any other charges & GST)	Input Tax Credit for HSN (INR)	Effective unit price (Incl. of Freight, P&F, Transit Insurance, any other charges)	Total Effective price (Incl. of Freight, P&F, Transit Insurance, any other charges)	
					(b)	(c)	(d)=(b)+(c)	(%)	(e) = (d)*(%)	(f)=(d)+(e)	(g)	(h)=(f)-(g)	(i)=(h)*(a)	
1.														
2.														

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3.														
4.														
5.														
6.														
7.														
8.														
9.														
10.														
Total effective price (net of input tax credit) for Special tools and Tackles (incl. of freight, P&F, Transit Insurance and any other charges) (F.O.R - BNPM, Mysuru site basis) in Figures (INR)														
Total effective price (net of input tax credit) for Special tools and Tackles (incl. of freight, P&F, Transit Insurance and any other charges) (F.O.R - BNPM, Mysuru site basis) in Words (INR)														
Total price for Special tools and Tackles (incl. of freight, P&F, Transit Insurance, any other charges and GST) (F.O.R - BNPM, Mysuru site basis) in Figures (INR)														
Total price for Special tools and Tackles (incl. of freight, P&F, Transit Insurance, any other charges and GST) (F.O.R - BNPM, Mysuru site basis) in Words (INR)														

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CORRIGENDUM NO. 4 (ADDENDUM)

Form B4: AMC of CCTV system

Schedule No.	Description	UOM	Qty	HS N/SA C Code	Price for Supply (INR)									
					Basic unit Price (INR)	Freight, P&F, Transit Insurance & any other charges (INR)	Unit price (Incl. of Freight, P&F, Transit Insurance & any other charges)	GST @ _%	GST Amount (INR)	Total unit price (Incl. of Freight, P&F, Transit Insurance, any other charges & GST)	Input Tax Credit for HSN (INR)	Effective unit price (Incl. of Freight, P&F, Transit Insurance, any other charges)	Total Effective price (Incl. of Freight, P&F, Transit Insurance, any other charges)	
					(b)	(c)	(d)=(b)+(c)	(%)	(e) = (d)*(%)	(f)=(d)+(e)	(g)	(h)=(f)-(g)	(i)=(h)*(a)	
1.	First Year: Comprehensive AMC of the entire CCTV system including the existing infrastructure & CCTV system after the completion of the 02 years warranty	Years	01											

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2.	Second Year: Comprehensive AMC of the entire CCTV system including the existing infrastructure & CCTV system after the completion of the First year	Years	01																			
3.	Third Year: Comprehensive AMC of the entire CCTV system including the existing infrastructure & CCTV system after the completion of the second year AMC	Years	01																			
Total effective price (net of input tax credit) for CCTV INFRASTRCTURE AMC (incl. of freight, P&F, Transit Insurance and any other charges) (F.O.R – BNPM, Mysuru site basis) in Figures (INR)																				✕		
Total effective price (net of input tax credit) for CCTV INFRASTRCTURE AMC (incl. of freight, P&F, Transit Insurance and any other charges) (F.O.R – BNPM, Mysuru site basis) in Words (INR)																				✕		
Total price for CCTV INFRASTRCTURE AMC (incl. of freight, P&F, Transit Insurance, any other charges and GST) (F.O.R – BNPM, Mysuru site basis) in Figures (INR)																				✕		
Total price for CCTV INFRASTRCTURE AMC (incl. of freight, P&F, Transit Insurance, any other charges and GST) (F.O.R – BNPM, Mysuru site basis) in Words (INR)																				✕		

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CORRIGENDUM NO. 4 (ADDENDUM)

Form B5: Buy Back Offer for existing CCTV and Servers

Sch edu le No.	Description	UOM	Qty	HSN /SAC Code	Price for Supply (INR)				
					Basic unit Price	GST @ _%	GST	Total unit price (Incl. GST)	Total price Incl. GST)(INR)
					(b)	(%)	(c) = (b)*(%)	(d)=(b)+(c)	(e)=(d)*(a)
1.	CCTV Dome IP Camera - 1/3" progressive scan CMOS sensor with 2.8-10mm lens. Make : Panasonic , Model No: SW-352	Nos.	121						
2.	CCTV Indoor HD Dome camera - 720p, CMOS sensor with 2.8-10mm lens. Make : Panasonic , Model No: SW-355	Nos.	33						
3.	CCTV Outdoor Box Dome camera - 1/3" progressive scan CMOS sensor with 7.5 - 50mm lens. Make : Panasonic , Model No: SP-305	Nos.	1						

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4.	CCTV IR day Box Dome camera - 1/3" progressive scan CMOS sensor with 7.5 - 50mm lens. Make: Panasonic, Model No: SW-509/SPN531	Nos.	31						
Total price for Buyback (incl. of freight, P&F, Transit Insurance, any other charges and GST) (F.O.R - BNPM, Mysuru site basis) in Figures (INR)									
Total price for Buyback (incl. of freight, P&F, Transit Insurance, any other charges and GST) (F.O.R - BNPM, Mysuru site basis) in Words (INR)									

- The method of evaluation of bidder for awarding the Contract shall be based on **L1 price arrived after subtracting total price of Form B5 from total price of FormB1 (L1 price will be arrived from (total price of FormB1- total price of FormB5))** and will be decided taking into consideration of the offered price for delivery up to BNPM, Mysore. Evaluation shall be carried out inclusive of GST rates.
- freight, P&F, Transit Insurance, any other charges shall be included while quoting for buyback price quoted for items in FormB5 as **the transfer of items in table03 will be in the scope of bidder only.**
- Qty. of 6(b) of Form B2 is tentative and will be paid at actuals.

()

Seal

Name

Signature with Date

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CORRIGENDUM NO. 4 (ADDENDUM)

Note:

- i) Price should be quoted exactly as per the format given above; Price bids with conditions / Counter conditions are liable for rejection.
- ii) Multiple / Variable rate for single item, would lead to rejection of offer.