

ANNEXURE -3 UPGRADATION OF BANKAPUR PLAZA

As per the geographical scope prescribed under the clause 5 of the RFP, the Bankapur plaza TMS system shall be upgraded from the existing system. The bidder is required to quote the Lumpsum price for this upgradation considering the entire software replacement and necessary hardware to meet the system performance and service level requirements prescribed in the NHIT RFE and subsequent limited RFP. The bidder shall follow the following steps to upgrade the Bankapur plaza TMS system:

1. The proposed system upgrade shall conform to the Bundle-2 scope procedures detailed in NHIT RFE clause 3.2.2. Bidders are required to carefully examine all Prerequisite mentioned in this clause regarding the TMS system upgrade.
2. Bidders should use the BoQ line items for any Plaza in Package-02, which has scope under Bundle-1 and Bundle-3, as a benchmark. The upgraded Plaza should have a system that aligns with this benchmark. Any missing/short materials shall be supplied and installed by the bidder during the upgradation. Bidder shall have the factor all the associated cost for supply, installation and commissioning of all such additional items in their financial bid under upgradation cost (plaza and lanes).
3. Bidder to supply the third-party COTS solution: Network Monitoring System (NMS) and Integrated Helpdesk & Inventory Management system as part of system upgradation.
4. The existing status of system at Bankapur Plaza is as mentioned in the below table. This information is provided for bidder's information only; however, Bidders are advised to independently evaluate the plaza's current condition to determine the appropriate financial quote for the upgradation. Please note that the current state is not definitive:

[illegible]

Lane Systems Status	L-01	L-02	L-03	L-04	L-05	L-06	L-07	L-08	L-09	L-10	L-11	L-12	L-13	L-14
Network Switch														
AVC Profiler	AVC installed but not operational.													
Toll Collector Display (TCD)	✓	✓	✓	✓	✓	✓	✓	Display Not Working	✓	✓	✓	✓	✓	✓
Customize keyboard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Traffic Light	✓	Green LED Not Working	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
OHLS	✓	✓	✓	✓	✓	Not Working	✓	✓	✓	✓	✓	✓	✓	✓
UFD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Not Working	✓	✓	✓
Thermal Printer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Intercom	✓	✓	✓	✓	✓	✓	Not Working	Not Working	Not Working	✓	✓	✓	✓	✓
Barcode Reader	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Panic Switch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Panic Siren	Panic Siren installed but not operational													
Amber Light	Amber Light installed but not operational													
Audio Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
MSWIM	MSWIM installed but not operational.													
WIM Indicator	WIM Indicator installed but not operational.													
Vehicle Separator	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2 KVA UPS	Not Working	✓	✓	Not Working	✓	Not Working	Not Working	✓	Not Working	✓	Not Working	✓	Not Working	Not Working
SWB	SWB installed but not operational.							SWB installed but not operational						
PTZ Camera	✓							✓						

- The TMS system at Bankapur plaza was commissioned in the year of 2023 based on the IHMCL work order by the System Integrator M/s Superwave Pvt Ltd.
- Apart from correcting the system, the upgradation process shall also require the supply of multiple components considering the RFE and RFP requirements.
- In case bidder shall replace any of the material throughout the contract period, The bidder shall supply all such material meeting the specifications and SLA requirements prescribed in NHIT RFE and this RFP.
- The details of Make and Model of the plaza is as listed in the below table as on bid releasing date:

Sr.	Line Item	Description	Make	Model
1	Hybrid ETC System			
1.01	TLC Controller	"Toll Lane Controller- Hybrid Electronics - Industrial Grade Mother Board-Advantech - Industrial Grade SMPS- Advantech - PCI DI/O Card 06 Channel -Processor Fan- Cooler Master -Accessories - Enclosure - 1TB SATA SSD - INTEL(R) CORE(MT) I3- 3240 CPU @ 340GHz 3.40GHz Processor - 4 GB DDR3L RAM - VGA Cable - Including OS Win 10"	Advantech	Advantech AIMB - 701
1.02	RFID Reader	RFID Reader, Antenna with its controller	ID-Tech	
	RFID Antena			
1.03	Boom Barrier	Barrier	Scaipl	
1.04	Exit Loop			
1.05	ICS Camera	Incident Camera - IP	UNV	IPC2322EBR5-P-C
1.06	LPCI Camera	License Plate Capture Camera - IP	UNV	IPC2122SR3-PF40-C
1.07	8 port Network Switch	Netgear	Netgear	GS108Ev3
1.08	AVC Profiler	"Accessories - Profile Based AVC	Scaipl	-
1.09	Toll Collector Display (TCD)	Toll Collector Display (TCD) 19"LED	Lenovo	Think Vision E2054 - Type 60DF
1.10	Customize keyboard	Customized Keyboard	Charry	SPOS
1.11	Traffic Light	Red & Green Aspects	Scaipl	NA
1.12	OHLS	Over Head Lane Sign (OHLS)	NA	NA
1.13	UFD	"-12 Character, 2 Line, -45 mm character height"	NA	NA
1.14	Thermal Printer	Thermal Printer	Epson	TM-T82X
1.15	Intercom	IP Base Intercom Grand stream	Grand stream	GXP1610
1.16	Barcode Reader			
1.17	Panic Switch	Revolving light, Siren and triggered switch	NA	NA
1.18	Panic Siren	Revolving light, Siren and triggered switch	SIBASS Electronics pvt. ltd	SE-LTE1103W3
1.19	Amber Light	Revolving light, Siren and triggered switch	SIBASS Electronics pvt. ltd	SE-LTE1103W3
1.20	Audio Camera	"IP Dome Camera (Booth Cameras)"	UNV	IPC312SR-VPF28-C
1.21	MSWIM	WIM	<u>Intelliweigh Systems Pvt Ltd</u>	IW- MS60

Sr.	Line Item	Description	Make	Model
1.22	WIM Indicator	WIM	<u>Intelliweigh Systems Pvt Ltd</u>	IW- MS60
1.23	Vehicle Separator	WIM	<u>Intelliweigh Systems Pvt Ltd</u>	IW- MS60
1.24	2 KVA UPS	UPS for Lane 2 KVA with 6 Nos. 100 AH Battery	Consul Neo watt	FML11X0002330H12
1.25	SWB	-	Altis Industries	ALTIS WB
1.26	PTZ Camera	Plaza monitoring Camera 360. rotation	UNV	IPC6222ER-X30-B
2	Plaza System			
2.01	TMS Server	"Toll Plaza Server HPE Pro Laint DL380 Gen10 XEON BRONZE1.7 GHz 32 GB DDR4 RAM 3 TB HDD, 18.5" LCD / Keyboard Mouse Including OS and DB Licenses"	HPE ProLiant	TPS-W016
2.02	Workstation	"Workstation (LSDU/Cash-Up & Audit & Admin & POS) -(2 Nos.) Intel(R) Core (TM) i5-9400 CPU @ 2.90GHz 2.90 GHz, (2 nos.) Intel(R) Core (TM) i3-9100 CPU @ 3.60GHz 3.60 GHz - 4 GB RAM - 1 TB HDD - Keyboard & Mouse"	Lenovo	V530-15ICR
2.03	Monitor	Surveillance Display 55"	LG	55UN7350PDT
2.04	Keyboard	-	Lenovo	-
2.05	Mouse	-	Lenovo	-
2.06	Printer	-	HP	-
2.07	NVR	Network Video Recorder 32 CH (with 1 TB HDD)	UNV	NVR308-32R-B
2.08	FIREWALL	Firewall	Fortinet	FG-30E
2.09	Network Switch	24 Power, POE switch (3 NOS)	D-Link	DGS-1210-28
2.10	CCTV Camera	Plaza monitoring Camera 360. rotation	UNV	IPC312SR-VPF28-C
2.11	RFID Handheld Device	-	Chainway	-
2.12	Plaza UPS	UPS for Toll Server 10 KVA with external batteries 16 Nos. 100 AH Battery and 10-20 Minutes Backup	Consul Neo watt	FXNCH W10KL -3/1
2.13	WI-FI Router	Network Router	D-Link	DSL-2730U

9. Bidder is advised to review the Make and Model of currently installed TMS system ensure the compatibility with the RFE and RFP relevant clauses.

10. WIM and SWB are supplied and installed by the OEM M/s Intelliweigh Systems Pvt Ltd. The bidder shall consider the integration of WIM and SWB with ETC system as scope prescribed under bundle-04 of NHIT RFE.
11. Based shall make assessment considering SLA requirements, the system integrator will determine the specific components that needs to be replaced or upgraded to achieve optimal performance.
12. Bidder shall supply the Mandatory and Recommended spare part on the plaza and conduct a comprehensive operation and maintenance throughout the contract period as per the provisions of NHIT RFE and this RFP.

****END OF DOCUMENT******