



# TRIPURA NATURAL GAS COMPANY LIMITED

(A Joint Venture of GAIL (I) & Govt. of Tripura & Govt of Assam)

BID DOCUMENT  
FOR

**PROCUREMENT OF CCTV &  
INSTALLATION,  
COMMISSIONING OF CCTV  
FOR TNGCL CGD PROJECT AT  
AGARTALA**

UNDER LIMITED DOMESTIC  
COMPETITIVE BIDDING

**Bid Document No.:** TNGCL/C&P/ CCTV/O&M/P(6012)/2019-20

**VOLUME – II OF II**

**PREPARED AND ISSUED BY**

Contracts & Procurement Dept.  
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**Tender for CCTV for City Gas Distribution  
at Agartala**

**VOLUME-II**

**CONTENT**

**Sl.No.**

**Description**

SECTION - VI

SCOPE OF WORK

SECTION – VII

TIME SCHEDULE

SECTION- VIII

TECHNICAL SPECIFICATION

SECTION – IX

PRICE SCHEDULE/  
SCHEDULE OF RATES

## **SECTION - VI**

### SCOPE OF WORK

## **1.0 SCOPE OF WORK:**

The Scope of Work includes supply, installation & commissioning of CCTVs at specific installations of TNGCL as specified below:

Location	Dome Camera	Bullet Camera	NVR	Switch	HDD	TV (32")	TV (24")	6U Rack	UPS
Corporate Office at Khejurbagan, Agartala	2	3	1	1	2	1		1	1
Khowai CNG Station	3	5	1	1	2	0	1	1	0
O&M Office	3	1	1	1	1	0	1	1	1
Office Lane Office	3	1	1	1	1	0	1	1	1
<b>Total</b>	<b>11</b>	<b>10</b>	<b>4</b>	<b>4</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>3</b>

\*\*\*\* The above mentioned quantity is tentative only and may change at the time of execution as per requirement and direction of the EIC.

- a. Supply of items mentioned in the SOR.
- b. The equipment/materials should be under 2 year's comprehensive warranty from the date of successful delivery & installation.
- c. All the products and their warranty certificates shall be issued in the name of Tripura Natural Gas Co. Ltd.
- d. All cameras should be IP based.
- e. A network, comprising an 16-port switch connected with CAT6, shall be laid for transmission of signal from cameras to the Control Stations. The Main Control Station shall be for Video Storage and further Control.
- f. The proposed Solution should allow TNGCL officials to locally and centrally monitor its facilities from a remote location through Mobile App and Internet Browser. All necessary Hardware and Software to achieve the same shall be provided by the Supplier. Internet Connection shall be provided by TNGCL.
- g. The Solution should capture, store, and analyze digital video images to enable central monitoring, increase operational efficiency, reduce liability, minimize risk and secure people & property.

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- h. After commissioning the Video surveillance system, the same shall be demonstrated for all its capabilities to the relevant user department to make them familiar with the system on mutually agreed dates.
- i. Once the supply order is placed, it will be the vendors' responsibility to make the project functional. Any additional cost incurred for completing the project and for which the vendor has not bid at the time of submission of the final offer will be borne by the vendor.
- j. The CCTVs Surveillance System need to be functional on 24x7 basic i.e. 24 hours all the days and need to have sufficient data storage capacity for all CCTVs.
- k. Completion Certificate: Work Completion certificate shall be issued only after completion of work in all respect as per the Terms and Conditions and Scope of Work and to the entire satisfaction of TNGCL.
- l. Training: Upon completion of the installation & commissioning the Successful Bidder shall provide the hands-on training on the installed equipment to the concerned officials along with the training materials on the equipment installed at TNGCL.
- m. Equipment Warranty Period :All the equipment supplied against this RFP shall have warranty for a period of Two (2) years from the date of installation and commissioning.
- n. Bidders should share all the relevant firmware/OS/Patches etc. as and when they are released by OEM during entire warranty period at no cost to TNGCL.
- o. The vendor will liaison on behalf of TNGCL, with other different OEMs for repairing of equipment(s) and all other accessories during warranty period.

## **2.0 TERMS OF PAYMENT**

Contractor shall raise bills location/ site wise, after completion of work and submission of commissioning reports along with other requisite documents.

80 % payment on completion of Job along with submission of following documents: -

- i) Invoice in triplicate
- ii) Performance Bank Guarantee(s) of 10% of Contract Value. If already Submitted, a copy of the same.
- iii) User Manual
- iv) OEM's Warranty Certificate
- v) Warranty Certificate from the Bidder

20% payment will be released within after 1 month successful running of the system and Against submission of following documents:

- i) Acceptance Certificate
- ii) No Claim Certificate.
- iii) Successful Installation & commissioning Report

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**3.0 Warranty / Guarantee / Defect Liability Period–**

1. The vendor shall provide warranty / Guarantee for the entire system for a period of 24 months from the date of commissioning.
2. The vendor shall be responsible for routine and breakdown maintenance of the equipment during the warranty period.

**Technical Specification of the Materials:**

<b><u>IP Dome Camera</u></b>	
Image Sensor	1/3" to 1/2.7"
Resolution	Minimum 2 MP
Power Supply	12 V DC
Day/Night	ICR with Auto Switch
Working Temperature	-10 deg C to +50 deg C or better
Video Quality	HD 1080P or better
Protection	IP66 or higher
Motion Sensor	Yes
Defog	Digital Defog
Range	Minimum 20 mtrs IR Range
Support for PoE Power Supply	Yes
<b><u>IP Bullet Camera</u></b>	
Image Sensor	1/3" to 1/2.7"
Resolution	Minimum 2 MP
Power Supply	12 V DC
Day/Night	ICR with Auto Switch
Working Temperature	-10 deg C to +50 deg C or better

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Video Quality	HD 1080P or better
Protection	IP66 or higher
Motion Sensor	Yes
Defog	Digital Defog
Range	Minimum 50 mtrs IR Range
Support for PoE Power Supply	Yes
<b><u>NVR</u></b>	
No. of Channels	16
Bandwith	Above 90 MBPS (Incoming and Outgoing both)
Hard Disk Capacity	Minimum 8 TB
Power Supply	12 V DC
Working Temperature	-10 deg C to +50 deg C or better
Corridor Mode Screen	3/4/5/7/9/10/12/16
Video	1080 P
<b>HDD</b>	8 TB SATA
<b>Switch</b>	24 Port PoE Switch CISCO make (With Rack)
<b>LED TV</b>	32" Full HD Samsung make with HDMI/VGA
<b>LED TV</b>	24" Full HD Samsung make with HDMI/VGA
<b>6U Rack</b>	Rack with Fan
<b>UPS</b>	1 KVA UPS suitable for at least 2 hours backup

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**SECTION – VII**

TIME SCHEDULE



**TIME SCHEDULE:**

The completion schedule for the said job is as follows:

The total job should be completed within 60 days from the date of Order.



## **SECTION – VIII**

### TECHNICAL SPECIFICATION

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Motion Sensor	Yes
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Range	Minimum 50 mtrs IR Range
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Bandwith	Above 90 MBPS (Incoming and Outgoing both)
Hard Disk Capacity	Minimum 8 TB
Power Supply	12 V DC
Working Temperature	-10 deg C to +50 deg C or better
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## **SECTION – IX**

### SCHEDULE OF RATE

Sr. No.	Item	UOM	Qty	Rate	Amount
1	IP Dome Camera	No.	11		
2	IP Bullet Camera	No.	10		
3	NVR	No.	4		
4	4 TB HDD for NVR	No.	6		
5	24 Port PoE Switch CISCO rack mountable	No.	4		
6	6 U Rack	No.	4		
7	32" LED TV	No.	1		
8	Laying, fitting and fixing including supply of Casing Pipes and fittings of CAT 6E Cable (Cable in TNGCL's Scope)	Mtr	1400		
9	Supply, Laying, fitting and fixing of CAT 6E Cable with Casing	Mtr	500		
10	10/100 MBPS PoE Injector Switch	No.	6		
11	1 KVA UPS	No.	3		
12	Supply, Laying, fitting and fixing of Power Cable including Casing	Mtr	100		
	24" LED TV	NO	3		
<b>Total</b>					
GST @ _____%					
<b>Grand Total</b>					

Signature of bidder

