



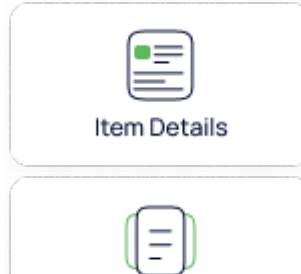
## View Tender Details

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### Current Tender Details

Tender ID
636198
Enquiry/IFB/Tender Notice Number
30/3/CGM(T)/HGCL/DGM(T)/2025-26 dt:13.10.2025
Name of Work
Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad
Tender Category
Works
Tender Type
OPEN
Estimated Contract Value
75441247.00
Bid Submission Closing Date
29/10/2025 03:00 PM
Tender Evaluation Type
Percentage

### Other Links

[Item Details](#)

### Enquiry Particulars

Department Name
<b>HYDERABAD GROWTH CORRIDOR LIMITED</b>
Circle/Division
<b>HYDERABAD GROWTH CORRIDOR LIMITED-Hyderabad Growth Corridor Limited</b>
Tender ID
<b>636198</b>
Enquiry/IFB/Tender Notice Number
30/3/CGM(T)/HGCL/DGM(T)/2025-26 dt:13.10.2025
Name of Project
HGCL ORR Project
Name of Work
Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad

Estimated Contract Value(INR)
75441247.00 ( Seven Crore Fifty Four Lakh Forty One Thousand Two Hundred and Forty Seven Rupees )
Package number
N/A
Period of Completion/ Delivery Period (in months)
06
Type of Work
Other
Bidding Type
OPEN
Bid Call (Numbers)
1
Tender Category
WORKS
Currency Type
(INR)
Default Currency
Indian Rupee - INR
Evaluation Type
Percentage
Evaluation Criteria
Based on Price
Form Of Contract
L.S
<b>Consortium / Joint Venture</b>
Not Applicable

**Transaction Fee Details****Transaction Fee Payable to 'TSTS ' payable at Hyderabad.(As per G.O.Ms No 4,Dtd 17.02.2015 IT&C Dept)**

11800 (INR)

**Tender Dates**

Bid Submission Start Date &amp; Time

15/10/2025 03:00 PM

Bid Submission Closing Date &amp; Time

29/10/2025 03:00 PM

Bid Validity Period (in Days)

120

**Tender Inviting Authority Particulars**

Officer Inviting Bids

Chief General Manager

Bid Opening Authority

Chief General Manager

Address

2nd Floor, HGCL Admin Building, Nanakramguda, Hyderabad

Contact Details

9849909821

Email

cgmhgcl@gmail.com

**Bid Security Details**

Bid Security (INR)

Bid Security In Favour Of

Mode of Payment

EMD Applicable

Rs.755000.00

Managing Director, HGCL

Online Payment,Challan Generation,BG

**Required Tender Documents Details**

S.No

Document Name

Stage

Document Type

1

As per Bid Document

COMMON

Mandatory

**General Terms and Conditions / Eligibility**

As per bid Document

**General Technical Terms and Conditions (Procedure)**

As per bid Document

## Legal Terms & Conditions



As per bid Document

## Geographical Particulars



Sno
State
District
Mandal
Assembly
Parliament
1
TELANGANA
RANGAREDDY
ORR
Nanakramguda
HYDERABAD

## Procedure for Bid Submission



Show Procedure for Bid Submission

## Enquiry Forms

Stage Details ()



Stage
Form Name
Type of Form
Supporting Document Required
Supporting Document Encryption
Supporting Document Description
View Details
Commercial Stage
Percentage Wise Rate
Secure
No
No
N/A





**Tender Notice No: 30/3/CGM (T)/HGCL/DGM-IV/2025-26, Dt: 13.10.2025**

**NAME OF THE WORK:** “Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad”

**BID DOCUMENT**

**HYDERABAD GROWTH CORRIDOR LIMITED  
OFFICE OF THE CHIEF GENERAL MANAGER (T)  
HGCL Building, 2nd FLOOR, KAJAGUDA ROAD, ADJACENT TO ORR,  
NANAKRAMGUDA, HYDERABAD -500104**

**October 2025**

HYDERABAD GROWTH CORRIDOR LIMITED

\* \* \*

**Tender Notice No: 30/3/CGM(T)/HGCL/DGM-IV/2025-26, Dt: 13.10.2025**

NAME OF WORK : “Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad”

NAME AND ADDRESS OF THE  
CONTRACTOR WHO DOWN  
LOADED THE BID DOCUMENTS.

:

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**STANDARD BID DOCUMENT**  
**INDEX**

<b>No</b>	<b>DETAILS</b>	<b>Page No.</b>
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<b>2.</b>	<b>INSTRUCTIONS TO TENDERERS.</b>	
	A) General.	
	B) Tender Document	
	C) Preparation of Tenders	
	D) Submission of Tenders	
	E) Tender Opening and Evaluation.	
	F) Award of Contract.	
<b>3.</b>	<i>FORMS OF TENDER QUALIFICATION INFORMATION</i>	
	→ Checklist to Accompany the Tender	
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<b>4.</b>	<i>CONDITIONS OF CONTRACT.</i>	
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<b>9</b>	<i>FORMATS OF SECURITIES</i>	



# HYDERABAD METROPOLITAN DEVELOPMENT AUTHORITY

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## NOTICE INVITING TENDERS (NIT)

**NIT No: 30/3/CGM(T)/HGCL/DGM-IV/2025-26, Dt: 13.10.2025**

Tenders for the work mentioned below are invited from the Contractors / Contracting firms registered with Government of Telangana, India

1)	Name of the work	:	“Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad”
2)	Estimate Contract value of work put to tender	:	Rs. 7,54,41,247/- (Excluding GST and taxes)
3)	Period of completion of work	:	<b>Six (6) Months + Three (3) Years Operation and Maintenance</b>
4)	Form of contract / class of contractor eligible	:	Copy of certificate of Incorporation/Registration under Companies Act 1956/Companies Act 2013 (for Indian companies)
5)	E.M.D. to be paid in the shape of Online/ B.G in favour of Managing, Director, HGCL, obtained from Nationalised Bank / Scheduled Bank	:	<b>Rs. 7.55 Lakhs (1% of ECV)</b>
6)	Date and time for downloading of tenders	:	15.10.2025
7)	Last date and time for submission of Tenders	:	29.10.2025 @ 3.00 PM
8)	Date and time of opening of tenders		
	a) Technical Bid	:	29.10.2025 @ 3.30 PM
	b) Price Bid	:	To be notified later

2.

- a) The bidders need to contact the Chief General Manager (T), HGCL for information on e-procurement.
- b) The intending bidders need to register on the electronic procurement market place of Government of Telangana that is, <https://tender.telangana.gov.in/> On registration on the e-procurement market place they will be provided with a user ID and password by the system using which they can submit their bids on line.
- c) While registering on the e-procurement market place, bidders need to scan and upload the required documents as per the tender requirements on to their profile.
- d) Such uploaded documents need to be attached to the tender while submitting the bids.

The e-procurement market place provides an online self-service registration facility to such of the contractors who are already registered with respective participating departments for supply of specified goods and services.

**3. As per G.O.Ms.No.174 I & CAD Dept., dt.01.09.2008:**

- i. Submission of original Hard Copies of the uploaded scan copies of BG towards EMD by participating bidders to the tender inviting authority before opening of the price bid be dispensed forthwith.
  - a. If the tender inviting authority request the bidders for the submission of original of uploaded documents by written (written means communicated in writing and i.e. by e-mail, fax, Telex) demand in case of necessity during the technical bid evaluation, the same shall be produced by the bidders with in specified period.
- ii. All the bidders shall invariably upload the scanned copies of BG or proof of online payment in e-procurement system and this will be the primary requirement to consider the bid as responsive.
- iii. The Department shall carry out the technical bid evaluation solely based on the Uploaded certificates/documents, BG/online payment towards EMD in the e-procurement System and open the price bids of the responsive bidders.

- a. Clarification will be obtained in respect of uploaded documents only .No other document obtained /submitted will be taken into consideration in evaluation process
  - b. Subsequent information in support of the documents specifically uploaded by the bidder shall be sought for submission before finalization of tender, which will be considered. Whereas the documents submitted by the bidders in the form of hard copy of the documents which are not uploaded shall not be considered for technical bid evaluation.
- iv. The Department will notify the successful bidder for submission of original hard copies of all uploaded documents, BG/online payment towards EMD prior to entering into agreement.
- v. The successful bidder shall invariably furnish the original BG/online payment towards EMD, certificates/documents of the uploaded scanned copies to the Tender inviting Authority before entering into agreement either personally or through courier or post and the receipt of the same within the stipulated date shall be the responsibility of the successful bidder. The Department will not take any responsibility for any delay in receipt/non-receipt of original BG towards EMD, certificates/documents from the successful bidder before the stipulated time. On receipt of documents, the Department shall ensure the genuinity of the BG towards EMD and all other certificates/ documents uploaded by the bidder in e-procurement system in support of the qualification criteria before concluding the agreement.
- vi. If any successful bidder fails to submit the original hard copies of uploaded certificates/documents, BG towards EMD within the stipulated time or if any variation is noticed between the uploaded documents and the hard copies submitted by the bidder, the successful bidder will be suspended from participating in the tenders on e-Procurement platform for a period of 3 years. The e- Procurement system would deactivate the user ID of such defaulting successful bidder based on the trigger/ recommendation by the tender Inviting Authority in the system. Besides this, the Department shall invoke all processes of law including criminal prosecution of such defaulting bidder as an act of

extreme deterrence to avoid delays in the tender process for execution of the development schemes taken up by the Government. The information to this extent may be displayed in the e-procurement platform website.

4. A minimum of 3 days time gap shall be maintained between opening of technical bids and opening of price bids. The successful (L1) tenderer shall furnish the original hard copies of all the documents/ Certificates / statements uploaded by him before concluding agreement.
  - a) The tenderer shall be required to furnish a declaration in online stating that the soft copies uploaded by them are genuine. Any incorrectness / deviation noticed will be viewed seriously and apart from canceling the work duly forfeiting the EMD, criminal action will be initiated including suspension of business.
  - b) Before concluding the agreement with the L1 tenderer, the tender inviting authority shall ensure the genuinity of BG furnished by bidder towards EMD and all the certificates uploaded by the bidder online by deputing responsible departmental officials.
  - c) The Government as further decided that notwithstanding any existing provisions of the A.P. Public works Department Code as well as other orders and executive instructions in force if any tenderer fails to submit the hard copies of BG for EMD. Transaction fee, hard copies of uploaded documents within the stipulated time the tenderer will be suspended disqualified from participating in the tenders on 'e-procurement plat form' for a period of 12 months from the date of bid submission. The suspension of tenderer shall be automatically enforced by the e-procurement system (**As per G.O.Ms. No.6 I&CAD (PW-Reforms) Dept., dt.11.01.2005 and G.O.Ms.No.245 I&CAD (PW-Reforms) dept., dt. 30.12.2005**)
5. **Action to be taken against the lowest bidder, who back out at the time of Agreement, the contract Registration will be suspended for a period of One year duly forfeiting the E.M.D. as per G.O.Ms.No.259, T.R&B (Roads-V) Dept., dt.06.09.2008.**

## 6. Eligibility criteria for opening the Price Bid:

S No	Qualification Criteria	Documentary Evidence
1	Form of contract / class of contractor eligible	Copy of certificate of Incorporation/Registration under Companies Act 1956/Companies Act 2013 (for Indian companies)
2	E.M.D. to be paid in the shape of Online/ B.G in favour of Managing Director, HGCL, obtained from Nationalised Bank / Scheduled Bank	E.M.D. of Rs.7.55 Lakh to be paid in the shape of online payment/ B.G in favour of Managing Director, HGCL obtained from Nationalized Bank / Scheduled Bank.EMD in the form of DD will not be accepted vide G.O. MS. No. 66, I& CAD (Reforms) Department Dated: 20.04.2015
3	The Average Annual Turnover of the bidder of last 3 years should be more than <b>Rs. 50 Cr.</b> (The financial years to be considered are FY 2022–23, FY 2023–24, and FY 2024–25.	Copy of the audited Balance Sheet and Profit & Loss Statement of the company and Certificate from the Chartered Accountant clearly stating the turnover over the last 03 financial years.
4	The bidder should have experience in completing a single video surveillance project involving 1,500 cameras for a Central/State Government Department, Ministry, or PSU, within the last Five (05) years as of the bid submission date	Copy of the work order and work Completion Certificates issued by the rank of Executive Engineer or Head of Department.
5	The Bidder should have experience in CCTV Surveillance System including supply, installation, testing and commissioning with Command Control Centre of One (1) Project of similar nature having value not less than <b>Rs. 20 Cr</b> for Central/ State	Copy of the work order and work Completion Certificates issued by the rank of Executive Engineer or Head of Department.

S No	Qualification Criteria	Documentary Evidence
	Government Department / Ministry / PSU in last Five (05) years as on the date of bid submission.	
6	The Bidder should have valid Certificate of ISO 27001:2018 and ISO 45001:2018, ISO 9001:2015 and <b>CMMI Level 3</b> (verifiable on CMMI website <a href="https://pars.cmmiinstitute.com">https://pars.cmmiinstitute.com</a> ) as of the date of bid publication)	Valid copy of ISO & CMMI Level 3 Certificates to be submitted (Certifications should be prior to the tender published date)
7	The bidder should have a minimum of <b>20 employees</b> on their payroll, with Provident Fund (PF) and all other statutory compliances in place as of the date of the RFP and also need to provide the bidder escalation Matrix	Submit the proof of EPF Account details of personnel in respect of the current year to be provided.
8	The bidder must submit a Bank Solvency Certificate in favour of their firm, issued by the bidder's bank, for a minimum amount of <b>Rs. 5.00 Cr.</b>	Submit a Banker's Solvency Certificate issued by a Nationalized / Scheduled Bank, dated within the current financial year
9	The bidder is required to furnish a Manufacturer's Authorization Form (MAF) from the respective OEM(s) for all major equipment/components proposed in the solution, as per tender requirements as per the OEM Criteria mentioned in OEM Criteria vide page No. 10 to 12.	The Manufacturer's Authorization Form (MAF) is required for the following critical components proposed in the solution. CCTV Cameras, Servers, VMS, Switches, UPS, OFC & Cat6 Cables The bidder shall ensure that MAFs are duly signed, stamped, and submitted by the respective OEMs along with the technical bid

1. Bid capacity computed by the formula  $(2AN - B)$  shall be greater than the ECV.

**Bid Capacity:** The bidder who meets the above qualification criteria and whose available bid capacity is more than the estimated contract value will be qualified for opening of Price bid. The available bid capacity will be calculated as under:

Available Bid Capacity :  $2AN - B$ .

Where,

A= Maximum value of works in CCTV installation executed in similar nature in its name in any one financial year during the last Five (5) financial years (updated to current Price level) taking into account the works completed as well as works in progress.

N= Number of years prescribed for completion of the work for which Tenders are invited [months / 12].

B= Updated value (at current Price level), of all Existing Commitments and ongoing works, likely to be awarded to be executed during the next Six (6) months (period of completion of works for which tenders are invited).

**Note:**

**To be eligible for participation in this tender, bidders are required to submit the following documentary evidence along with their bid. Non-submission or incomplete submission of any of these documents may result in rejection of the bid at the pre-qualification stage**

- i) Copy of GST Registration certificate and latest GST returns certificate of Government of Telangana. GST returns shall be for the preceding quarter i.e., three (3) months before the month of tendering and provide the auditor certificate confirming that there is no outstanding GST liability
- ii) Copy of Permanent Account Number i.e. (PAN) Card.
- iii) Proof of payment of EMD.
- iv) Information regarding any litigation with Government depts. during the last five years, in which the bidder is involved (Litigation History) should be furnished. If there is no litigation history, a NIL report should be submitted.

- v) The bidder shall be required to furnish a declaration stating that the soft copies uploaded by them are genuine. Any incorrectness / deviations noticed in the certificates will be viewed seriously and apart from cancelling the work duly forfeiting the EMD. Criminal action will be initiated including suspension of business.
- vi) Copy of audited Balance Sheet and Profit & Loss Statement for the last three financial years (FY 2022-23, FY 2023-24, and FY 2024-25) and a Certificate from a Chartered Accountant certifying the annual turnover for these years.
- vii) The bidder should have experience in completing a single video surveillance project involving 1,500 cameras for a Central/State Government Department, Ministry, or PSU, within the last Five (05) years as of the bid submission date
- viii) Copies of work orders and completion certificates for CCTV Surveillance System with Command Control Center implementation projects at least one project of value Rs. 20 Cr. or more, for Government/PSU in the last Five (5) years:
- ix) Valid certificates: ISO 27001:2018, ISO 45001:2018, ISO 9001:2015, and CMMI Level 3 or above (verifiable on CMMI Institute website), all issued prior to the date of tender publication.
- x) Proof of at least 20 employees on payroll with statutory compliance and EPF account statement for current year.
- xi) Bank Solvency Certificate issued by a Nationalized or Scheduled bank in favor of the bidder, for a minimum of Rs. 5.00 Cr, dated within the current financial year.
- xii) Certificate of Manufacturer's Authorization Form (MAF) from relevant OEMs for all major components including CCTV Cameras, Servers, Switches, UPS, OFC, Cat6 cable, VMS, MAFs must be duly signed, stamped, and submitted along with the technical bid.
- xiii) These documents are mandatory for pre-qualification and must be included as part of the bid submission.



## **2. OEM Criteria:**

### **1. OEM Criteria for CCTV Cameras**

<b>S No</b>	<b>OEM Criteria for CCTV Cameras</b>
1	The proposed CCTV camera must be in compliance with Indian standards and should have the BIS-ER certifications in same brand/OEM name. BIS in the name of 3 <sup>rd</sup> party or JV company should not be accepted.
2	The OEM should have online-dedicated support centre available and a fully equipped repair and maintenance office in Telangana State/India.
3	The CCTV OEM should have direct presence in India and should be registered and existence in India for more than 3 Years as on RFP date. The Camera OEM must have their own manufacturing setups in India on their own name. OEM having production via third party contract / third party factory tie-up / Joint venture or contractual manufacturing will not be considered.
4	The OEM should have their CCTV camera complied with ONVIF protocol and OEM should be listed in ONVIF website.
5	The OEM should have ISO 9001:2015, ISO 27001 certificate for quality and information security management.
6	The camera OEM should be a genuine manufacturer and should comply with HEVC H.265.
7	The quoted CCTV camera OEM should be Full time/affiliate member of ONVIF. For verification, details on ONVIF website shall be available. OEM should give the declaration about full membership.
8	OEM Brand Should have its registration under Govt. of India
9	The MAC address of all quoted cameras must be registered in the same name of OEM/Brand quoted in the RFP. MAF should be submitted on the OEM letter Head with Authorised Sign & Stamp.

### **2. OEM Criteria for Switches**

<b>S No</b>	<b>OEM Criteria for Switches</b>
1	OEM offered must be in steady and profitable business in India for last 3 years.
2	OEM should have valid ISO 9001, ISO/IEC 27001: 2013 certified for design and development of LAN and WAN products, all the relevant certificates must be

S No	OEM Criteria for Switches
	submitted along with the bid.
3	OEM should have a registered office in India and should be directly present for last 3 years in India, from date of RFP publication.
4	The OEM should have their Own service centre running & operational within the state of Telangana/India. Should have Service Centre Registration Copy On OEM Name for Service Center in Telangana/India. Documentary evidence must be submitted along with the bid.

### 3. OEM Criteria for Video Management Software

S No	OEM Criteria For Video Management Software
1	Video Management Software should be Enterprise level software. OEM should have a direct Registered Office in India & should be in VMS business from last 3 Years.
2	The VMS Software OEM should provide min. 1500 camera in last 3 years. PO and End user/SI certificate should be submitted as a proof of projects completed satisfactory.
3	Video Management Software should be certified with latest FIPS-140-3 encryption from Cert-in empanelled agency for Data protection, encryption for mitigating cyber security risk
4	Video Management Software OEM should have CMMI Level-3, and ISO 9001, 20000, 27701
5	Video Management Software should not be White Labelled product & should not be from the Same Camera OEM. IPR & Source code of software should be name of OEM/company authorized person.

### 7. No relaxation will be given to any of the qualification criteria.

Even though the bidder meet the above qualifying criteria, they are liable to be disqualified / debarred / suspended / blacklisted if they have

- Furnished false / fabricated particulars in the forms, statements and/annexure submitted in proof of the qualification requirements and/or
  - Not turned up for entering into agreement, when called upon.
  - Record of poor progress such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc. and/or
  - Participated in the previous bidding for the same work and had quoted unreasonably high tender percentage and
  - Even while execution of the work, if found that the work was awarded to the Contractor based on false / fake certificates of experience, the Contractor will
  - Be blacklisted and work will be taken over invoking clause 61 of PS to APSS.
8. Any incorrectness / deviations noticed will be viewed seriously and apart from cancelling the work duly forfeiting the EMD, Criminal action will be initiated including suspension of business.
  9. The price-bids of such bidders, who are determined to have complied with the above eligibility criteria, and approved by the Chief General Manager (T)/ Tender Committee of HMDA will only be opened.
  10. If the office happens to be closed on the dates specified above, the respective activity will be performed at the designated time on the next working day without any notification.
  11. Any other details can be had from the Office of the Chief General Manager (T), HGCL,
  12. The Chief General Manager (T), HGCL reserves the right to reject the tenders without assigning any reasons.
  13. All the bidders are requested to follow up the e-procurement website for additional information, like addendums, and corrigendum's on <https://tender.telangana.gov.in/> and no paper publication will be issued.

## **INSTRUCTIONS TO TENDERERS**

### **A – GENERAL**

Name of work                      “Design, Supply, Installation, Testing, Commissioning,  
Given in the                      Warranty, Insurance, Operation and Maintenance of an  
Estimate: :                      Integrated IP-Based CCTV Surveillance System at ORR  
Underpasses, Cyberabad Police Commissionerate Limits on  
Outer Ring Road, Hyderabad”

### **INTRODUCTION:**

The Outer Ring Road is a road-cum-area development project, since its aim is the development of well-planned and well-connected urban settlements around the Hyderabad Metropolitan area.

The Government of Telangana formed a Special Purpose Vehicle (SPV) for the development of the Outer Ring Road, called the “Hyderabad Growth Corridor Limited” (HGCL), under the Companies Act 1956 on 26th December 2005.

The ORR is developed as an expressway of 8 lanes divided with access control, and has a total of 22 access points. The ORR has a length of 158 km connecting several areas such as Narsing - Kokapet - Patancheru - Medchal - Shamirpet - Ghatkesar - PeddaAmberpet - Shamshabad - TGPA - Narsing -Nankramguda -Gachibowli. Further, along the ORR, service roads are developed with 2 lanes undivided section, on both sides of ORR.

**Description and location of work:** ORR Cyberabad Jurisdiction (i.e., from 0.00 km to 23.70 km, 43.00 km to 72.00 km and 121.00 km to 158.16 km)

- a) “Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad”
- b) Period of completion: Supply and Installation of CCTV Cameras Six (6) months + Three (3) years Comprehensive Operation & Maintenance
- c) ECV put to tender: **Rs. 7,54,41,247 /-** (Excluding GST and taxes)
- d) SSR adopted:
- e) Details of provisions included in the ECV put to tender.

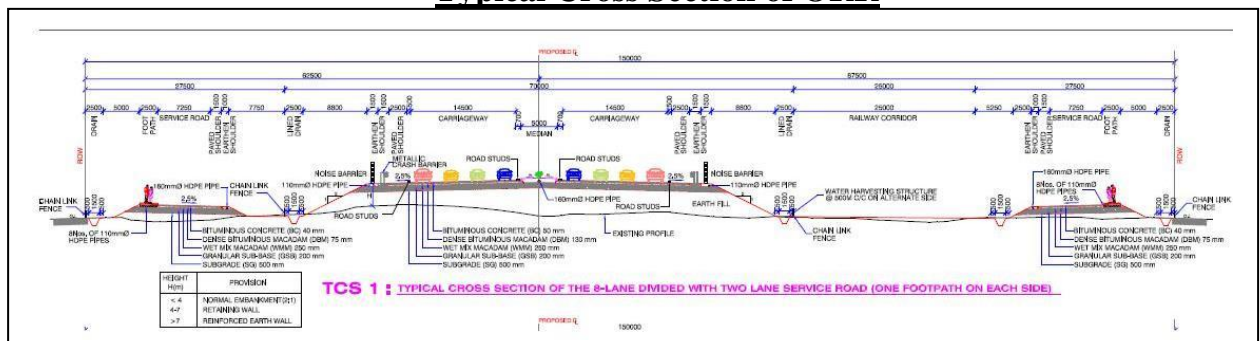
- i) Contract profit and Overheads
- f) Provisions not included in the ECV
  - 1. Addition and Deduction of LC @1%
  - 2. Charges for conducting Third party Audit to be borne by the Agency
- g) The rates mentioned in Schedule “A” are inclusive of all overhead charges and include the following :
  - Site accommodation, setting up plant, access road, water supply, Electricity and general site arrangements.
  - Office furniture, equipment and communications
  - Expenditure on Corporate office of contractor site supervision
  - Documentation and “as built” drawings Mobilization/ de-mobilization of resources
  - Labour camps with minimum amenities and transportation to work sites.
  - Light vehicles for site supervision including administrative and managerial requirements.
  - Laboratory equipment and quality control including field and laboratory testing.
  - Minor T & P and survey instruments and setting outworks, including verification of line, dimensions, trial pits and bore holes, where required.
  - Watch and ward
  - Traffic management during construction
  - Expenditure on safeguarding environment
  - Sundries
  - Financing Expenditure
  - Sales/ Turn over tax
  - Work Insurance/ compensation
- h) The Reimbursable amounts are as follows

- a) GST @ 18% will be applicable as per Circular Memo No.1823205-A/231/A1/WP/2022, dated:29.12.2022.
- b) NAC@0.10%
- c) Labour cess@1%
- d) The recoveries amounts are as follows
  - a. Labour cess@1%
  - b. Any other taxes/cess levied by the Government time to time.
  - c. Charges for conducting Third party Audit to be borne by the Agency

## PLAN OF OUTER RING ROAD PROJECT, HYDERABAD



## Typical Cross Section of ORR



The bidder may obtain further details of a particular place other than the details shown in the above cross section before executing any work. Agency only will be responsible for any damage to the existing property while executing O&M works.

The main objective of the Outer Ring Road is to divert traffic so that it will not load the city network unnecessarily. There are 22 major interchanges / intersections on the project corridor as follows.

IC No.	Name of IC	IC No.	Name of IC
1	Kokapet	10	Taramptipet
1A	Neopolis	11	Pedda Amberpet
2	Edula Nagulapally	12	Bonguluru
3	Patancheru	13	Raviryal
4	Sultanpur	14	Tukkguda
4A	Mallampet	15	Pedda Golconda
5	Dindigal/Saragudem	16	Shamshabad
6	Medchal	17	Rajendra Nagar
7	Shamirpet	18	TGPA
8	Keesara	18A	Narsingi
9	Ghatkesar	19	Nanakramguda

**The Chief General Manager (T), HGCL invites tenders for the above works vide**

**NIT No. 30/3/CGM(T)/HGCL/DGM-IV/2025-26,**

**Dt: 13.10.2025**

**1.**

- 1.1 As per the directions issued by the Government in GO MS No.174 I&CAD (PW-REFORMS) dated 1.9.2008, submission of original hard copies of the uploaded scan copies of BG towards EMD and other certificates/documents by participating bidders to the tender opening authority before opening of the price bid is dispensed with. All the bidders shall invariably upload the scanned copies of BG in e-procurement system will be the primary requirement to consider the bid as responsive. The Department shall carry out the technical bid evaluation solely based on the uploaded certificates/documents, BG towards EMD and open the price bids of the responsive bidders. The Department will notify the Successful bidder for submission of original hard copies of all uploaded documents, BG towards EMD prior to entering into agreement.
- 1.2 The Successful bidder shall invariably furnish the original BG towards EMD, Certificates/documents of the uploaded scanned copies of the tender inviting authority before entering into the agreement either personally or through courier or post and the receipt of the same within the stipulated date shall be the responsibility of the successful bidder. The Department will not take any responsibility for any delay in receipt/non-receipt of original BG towards EMD, certificates/documents from the successful bidder before the stipulated time. On receipt of documents, the department shall ensure the genuinity of the BG towards EMD and all other certificates/documents uploaded by the bidder in support of qualification criteria before concluding agreement.
- 1.3 If the successful bidder fails to submit the original hard copies towards EMD and other documents with in the stipulated time, the successful bidder will be suspended from participating in the tenders on e-procurement for a period of three years. The e-procurement system will deactivate the user ID of such defaulting successful bidder based on the trigger/recommendation by the tender inviting authority and also criminal prosecution shall be invoked



- 1.4 The tenderers shall be required to furnish a declaration in online stating that the soft copies uploaded by them are genuine. Any incorrectness / deviations noticed will be viewed seriously and apart from canceling the work duly forfeiting the EMD, Criminal action will be initiated including suspension of business.
- 1.5 The successful tenderer is expected to complete the work within the time period specified in the NIT.

## **2. Firms Eligible to Tender:**

### **1.1 The Firms who**

- i) Possess the valid registration in the class and category mentioned in the NIT and satisfy all the conditions therein.
- ii) are not blacklisted or debarred or suspended by the Government for whatever the reason, prohibiting them not to continue in the contracting business
- iii) Have complied with the eligibility criteria specified in the NIT are the eligible tenderers.

### **1.2 Firms Ineligible to Tender:**

- i) The Bidder / Firms applied for / availed Corporate Debt Restructuring (CDR) / Strategic Debt Restructuring (SDR) during last five (5) financial years and continuing to be under the same as on the date of tendering i.e., .10.2025 are not eligible to participate in the Bid.
- ii) A retired officer of the Govt. of TS/AP or Govt. of India executing works is disqualified from tendering for a period of two years from the date of retirement without the prior permission of the Government.
- iii) The Bidder who has employed any retired officer as mentioned above shall be considered as an ineligible bidder.
- iv) The contractor himself or any of his employees is found to be Gazetted Officer who retired from Government Service and had not obtained permission from the Government for accepting the contractor's employment within a period of 2 years from the date of his retirement.
- v) The Contractor or any of his employees is found at any time after award of contract, to be such a person who had not obtained the permission of

the Government as aforesaid before submission of the tender or engagement in the Contractor's service.

- v) Contractor shall not be eligible to tender for works in the division / circle where any of his near relatives are employed in the rank of Assistant Engineer or Assistant Executive Engineers and above on the Engineering side and Divisional Accounts Officer and above on the administrative side. The Contractor shall intimate the names of persons who are working with him in any capacity or are subsequently employed. He shall also furnish a list of Gazetted /Non-Gazetted, State Government Employees related to him. Failure to furnish such information bidder is liable to be removed from the list of approved contractors and his contract is liable for cancellation.

**Note: Near relatives include**

1. Sons, step sons, daughters, and stepdaughters.
2. Son-in-law, and daughter-in-law.
3. Brother-in-law, and sister-in-law.
4. Brothers and Sisters.
5. Father and Mother.
6. Wife / Husband.
7. Father-in-law and Mother-in-law
8. Nephews, nieces, uncle and aunts
9. Cousins and
10. Any person residing with or dependent on the contractor.

**2. Qualification data of the Bidders**

- 2.1 As per NIT Clause 6
- 2.2 Any other details can be had from the Office of the Chief General Manager (T), HGCL, Hyderabad.
- 2.3 Tenders from Joint Ventures are not acceptable
- 2.4 **QUALIFICATION CRITERIA FOR OPENING OF THE PRICE BID.**
  - i. As per NIT Clause 6
- 2.5 Even though the bidder meet the above qualifying criteria, they are liable to be disqualified / debarred / suspended / blacklisted if they have

- Furnished false / fabricated particulars in the forms, statements and / annexures submitted in proof of the qualification requirements and/or
- Not turned up for entering into agreement, when called upon.
- Record of poor progress such as abandoning the work, not properly completing the contract, inordinate delays in completion, litigation history or financial failures etc. and/or
- Participated in the previous bidding for the same work and had quoted unreasonably high tender percentage and
- Even while execution of the work, if found that the work was awarded to the Contractor based on false / fake certificates of experience, the Contractor will
- Be blacklisted and work will be taken over invoking clause 61 of PS to APSS.

2.6 Tenders up to 5 % Excess will be considered as per the G.O.Ms.No.230, Dt:13.08.2007 and the tenders with an excess of above 5% of the estimated contract value shall summarily be rejected.

2.7 For tenders up to 25% less than the estimated contract value of work, no additional security deposit is required. But for tenders more than 25% of the estimated Contract Value of work, the difference between the tendered amount and 25% of the estimated contract value, shall be paid by the successful bidder at the time of concluding agreement as an additional security to fulfill the contract through a Bank Guarantee on a **Nationalised Bank / Scheduled Bank** in the prescribed format valid till completion of the work in all respects

2.8 If the percentage quoted by a bidder is found to be either abnormally high or within the permissible ceiling limits prescribed but under collusion or due to unethical practices adopted at the time of tendering process, such tenders shall be rejected.

A bidder submitting a Tender which the tender accepting authority considers excessive and or indicative of insufficient knowledge of current prices or definite attempt of profiteering will render himself liable to be debarred

permanently from tendering or for such period as the tender accepting authority may decide. The tenderer overall percentage should be based on the controlled prices for the materials, if any, fixed by the Government or the reasonable prices permissible for the tenderer to charge a private purchaser under the provisions of clause-6 of the hoarding and profiteering prevention ordinance of 1943 as amended from time to time and on similar principle in regard to labour supervision on the construction.

**3. One Tender per Tenderer:**

- 3.1 Each Tenderer shall submit only one Tender for the work. A Tenderer who submits more than one Tender will cause disqualification of all the Tenders submitted by the Tenderer.

**4. Cost of Tendering**

- 4.1 The bidder shall bear all costs associated with the preparation and submission of his Tender and the tender inviting authority will in no case be responsible and liable for those costs.

**5. Site Visit.**

- 5.1 The Tenderer, at the Tenderer's own responsibility and risk is advised to visit and examine the Site of Work and its surroundings and obtain all information that may be necessary for preparing the Tender for entering into a contract, for construction of the work. The costs of visiting the site shall be at the Tenderer's own expense.

**B. TENDER DOCUMENT**

**6. Contents of Tender document.**

- 6.1 One set of Tender document, comprises of the following:

**Technical bid:**

- 1) Notice Inviting Tenders (NIT)
- 2) Instruction to Tenderers
- 3) Forms of Tender and qualification information
- 4) Conditions of Contract.
- 5) Specifications
- 6) Drawings
- 7) Forms of Securities. i.e., EMD, Additional Security etc.

**Price bid:**

Bill of Quantities and Price bid.

**7. Clarification on Tender Documents**

- 7.1 A prospective Bidder requiring any clarification on Tender documents may contact the Tender Inviting Officer at the address indicated in the NIT. The Tender Inviting Officer will also respond to any request for clarification, received through post.

**Amendment to Tender Documents**

- 7.2 Before the last date for submission of Tenders, the Tender Inviting Officer may modify any of the Contents of the Tender Notice, Tender documents by issuing amendment/Addendum.
- 7.3 Any addendum/amendments issued by the Tender Inviting Officer shall be part of the Tender Document and it shall be kept in online.
- 7.4 To give prospective Tenderers reasonable time to take an addendum into account in preparing their bids, the Tender Inviting Officer may extend if necessary, the last date for submission of tenders.

**C. PREPARATION OF TENDERS.**

**8. Language of the Tender.**

- 8.1 All documents relating to the tender shall be in the English Language only.

**9. Documents comprising of the Tender.**

- 9.1 The bidders who are desirous of participating in e-procurement shall submit their technical bids, price bids etc., in the standard proscribed in the tender documents, displayed at e market place. The bidders should upload the scanned copies of all the relevant certificates, documents etc., in the e market place in support of their technical bids. The bidders shall sign on all the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity.

After uploading the technical/price bid, the attested copies of the uploaded statements, certificates, documents, (except the price bid / offer) are to be submitted by the bidder to the Chief General Manager (T), HGCL so as to reach before the date of opening of the price bid. Failure to furnish any of the uploaded documents and certificates, entail rejection of the bid and forfeiture of

the E.M.D. Similarly if any of the certificates, documents etc., furnished by the bidder are found to be false/fabricated/bogus, the bidder will be black listed and the E.M.D. forfeited.

The technical bids will be opened on line by the Chief General Manager (T), HGCL at the time and date as specified in the tender documents. All the statements, documents, certificates, DD / BG etc., uploaded by the tenderers will be downloaded for technical evaluation. The clarifications, particulars if any required from the bidders will be obtained or in the conventional method by addressing the bidders. The technical bids will be evaluated against the specified parameters/ criteria, same as in the case of conventional tenders and the technically qualified bidders will be identified. The result of technical bid evaluation will be displayed on the e market place, which can be seen by all the bidders who participated in the tenders.

#### **10. Bid Offer:**

- 10.1 Bill of Quantities called Schedule “A” and the bid offer accompanies the tender document .It shall be explicitly understood that the Tender Inviting Officer does not accept any responsibility for the correctness or completeness of this schedule ‘A’ and this schedule ‘A’ is liable to alterations by omissions, deductions or additions at the discretion of the Chief General Manager (T), HGCL or as set forth in the conditions of the contract. The Schedule “A” shall contain the items of work indicated as part– I and LS provisions as part–II. The percentage quoted by the contractor shall be applicable only to part –I. However, the provisions contained in the part –II will be operable basing on the conditions provided in the Tender Document. The bidder will have to state clearly their willingness to execute the work at certain specific percentage of excess or less or at par of the ECV indicated in Part-I at the space provided therein in Schedule ‘A’. The L.S. amounts indicated in part-II are maximum reimbursable amounts. The bidder should however quote his lump-sum tender based on this schedule of quantities. He should quote his offer as a overall tender percentage. The overall tender percentage should be written both in words and figures. The bid offers i.e., percentage shall be written both in figures and words legibly and free from erasures, over writings

or corrections of figures. Corrections where unavoidable should be made by crossing out, and rewriting duly initializing with date.

- 10.2 The Schedule –A (or Price-bid) contains not only the quantities but also the rates worked out by the Department and the amount for each item and total value of the estimated contract. The tenderer should workout his own rates keeping in view the work, site conditions and quote his overall tender percentage with which he intends to execute the work.
- 10.3 The bid offer shall be for the whole work and not for individual items / part of the work.
- 10.4 All duties, taxes, and other levies payable by the contractor as per State / Central Government rules, shall be included in the tender percentage quoted by the bidder, however keeping in view the maximum reimbursable amounts specified in Part-II of Price bid.
- 10.5** The tendered contract amount as computed based on overall tender percentage is subject to variation during the performance of the Contract in accordance with variation in quantities etc.
- 10.6** G.O. Ms. No. 7 Information Technology, Electronics & Communications Department Dated: 17.11.2016
- (a) eCorpus charges: As per G.O. Ms. No. 7 Information Technology, Electronics & Communications Department Dated: 17-11-2016, user departments have to collect 0.04% of ECV (estimated contract value) with a cap of Rs.10,000/- (Rupees ten thousand only) for all works with ECV up to Rs.50 Cr, and Rs.25,000/- (Rupees twenty five thousand only) for works with ECV above Rs.50 Cr, from the successful bidders only before entering into agreement / issue of purchase orders, towards eCorpus fund.
- (b) e-Procurement Transactional charges: As per G.O. read above, the participating bidders will pay a transaction fee @ 0.03% of ECV (estimated contract value) with a cap of Rs.10,000/- (Rupees ten thousand only) for all works with ECV up to Rs.50 Cr, and Rs.25,000/- (Rupees twenty five thousand only) for works with ECV above Rs.50 Cr, at the time of bid submission electronically. \

## **11. Validity of Tenders:**

- 11.1 Tenders shall remain valid for a period of not less than 120 days from the last date for receipt of Tender specified in NIT.
- 11.2 During the above mentioned period no plea by the tenderer for any sort of modification of the tender based upon or arising out of any alleged misunderstanding of misconceptions or mistake or for any reason will be entertained.
- 11.3 In exceptional circumstances, prior to expiry of the original time limit, the Tender Inviting Officer may request the bidders to extend the period of validity for a specified additional period. Such request to the Tenderers shall be made in writing. A Tenderer may refuse the request without forfeiting his E.M.D. A Tenderer agreeing to the request will not be permitted to modify his Tender, but will be required to extend the validity of his E.M.D. for a period of the extension.

## **12. Earnest Money Deposit**

- 12.1 The bidder shall furnish, Earnest Money Deposit equivalent to 1% of ECV in the form of BG or online payment. The BG shall be from a **Nationalized Bank / Scheduled Bank** valid for a period of 6 months. Xerox copy of the BG is to be scanned and uploaded in e-procurement system along with the Bid and this will be the primary requirement to consider the bid as responsive. The balance EMD of the successful bidder, 1.50% of ECV/TCV whichever is higher shall be paid at the time of concluding Agreement. This EMD can be in the form of BG or online payment.
  - a) a bank guarantee on any Nationalized Bank / Scheduled Bank in the form given in Section 8, from a Nationalized Bank / Scheduled Bank
  - b) Bank Guarantees furnished and uploaded online towards EMD at the time of tenders shall be valid for a period of six months from the date of tender notice.
- 12.2 The EMD of unsuccessful Bidders will be returned no sooner the tenders are finalized or end date of the Tender validity period whichever is earlier.
- 12.3 The 1% E.M.D. paid by the successful bidders at the time of submission of hard copies of Tender documents will be discharged if the Tenderer furnishes



Bank Guarantee for the full EMD of 2.50% at the time of concluding agreement.

12.4 The earnest money deposited by the successful tenderer will not carry any interest and it will be dealt with as provided in the conditions stipulated in the tender. The E.M.D. given in the form of Bank Guarantee on a Nationalized Bank / Scheduled Bank shall be valid for the duration of contract period i.e., **Six (6) months + 36 months** and in case any valid extension of contract period is granted, the validity of BG shall also be extended for the corresponding period. The Bank Guarantee on Nationalized Bank / Scheduled Bank furnished by the tenderer towards additional security amount shall be valid till the work is completed in all respects.

12.5 The E.M.D. shall be forfeited.

(a) If the Tenderer withdraws the Tender during the validity period of Tender.

(b) In the case of a successful Tenderer, if he fails to sign the Agreement for whatever the reason.

12.6 In consideration of the Chief General Manager (T), HGCL Tender committee undertaking to investigate and to take into account each tender and in consideration of the work thereby involved, all earnest monies deposited by the tenderer will be forfeited to HGCL in the event of such tenderer either modifying or with-drawing his tender at his instance within the said validity period of six months.

### **13. Signing of Tenders.**

**13.1** If the tender is made by an individual, it shall be signed with his full name and his address shall be given. If it is made by a firm, it shall be signed with the co-partnership name by a member of the firm, who shall also sign his own name, and the name and address of each member of the firm shall be given, if the tender is made by a corporation it shall be signed by a duly authorized officer who shall produce with his tender satisfactory evidence of his authorization. Such tendering corporation may be required before the contract is executed, to furnish evidence of its corporate existence. **Tenders signed on behalf of G.P.A. holder will be rejected.**

- 13.2 The Tender shall contain no alterations or additions, except those to comply with instructions issued by the Tender Inviting Officer, or as necessary to correct errors made by the Tenderer, in which case all such corrections shall be initialed by the person signing the Tender.
- 13.3 No alteration which is made by the tenderer in the contract form, the conditions of the contract, the drawings, specifications or statements / formats or quantities accompanying the same will be recognized; and, if any such alterations are made the tender will be void.

#### **D. SUBMISSION OF TENDERS.**

##### **14. Submission of Tenders:**

- 14.1 The bidders who desire to participate in e-procurement should upload the scanned copies in the prescribed formats of tender documents, in support of eligibility in the prescribed formats of tender documents, in support of eligibility for opening of their price bid, as mentioned in the clause 25. The bidders shall sign on all the statements, documents, certificates which are uploaded by them owing responsibility for their correctness / authenticity. The documents uploaded online will only be considered for evaluation as per G.O.Ms.No.174, Irrigation & CAD (PW-Reforms) Department, Dt:01.09.2008.
- 14.2 The Department will not hold any risk and responsibility for the loss in transit during uploading of the scanned document, for the invisibility of the scanned document online, and any other problem(s) encountered by the Tenderers while submitting his bids online.
- Related certificates, documents etc., duly attested are to be scanned and uploaded on to the 'e' procurement platform <https://tender.telangana.gov.in/at> in support of items mentioned in the document.
- 14.3 The tenderer shall invariably ensure that the following are to be furnished online:
- i) Document as per NIT clause 6
- 14.4 Any other condition regarding receipt of tenders in conventional method appearing in Tender document may be treated as Non-applicable.

**15. Last date / time for Submission of the Tenders.**

- 15.1 Tenders must be submitted on line not later than the date and time specified in NIT.
- 15.2 The Chief General Manager (T), HGCL may extend the dates for issue and receipt of Tenders by issuing an amendment in which case all rights and obligations of the Chief General Manager (T), HGCL and the Tenderers will remain same as previously.

**16. Late Tenders.**

- 16.1 Any Tender received after the last date / time prescribed in NIT will not be allowed on e procurement platform.

**17. Modification to the Tender.**

- 17.1 No Tender shall be modified after the last date /time of submission of Tenders.

**E) TENDER OPENING AND EVALUATION**

**18. Tender opening**

- 18.1 The Technical bids will be opened online by the Chief General Manager (T), HGCL at the time and date as specified in the tender documents. All the Statements, documents, certificates, Bank Guarantee etc., uploaded by the Tenderers will be verified and downloaded, for technical evaluation. The clarifications, particulars, if any, required from the bidders, will be obtained either online or in the conventional method by addressing the bidders. The technical bids will be evaluated against the specified parameters / criteria same as in the case of conventional tenders and the technically qualified bidders will be identified. The result of Technical bids evaluation will be displayed on the 'e'market place, which can be seen by all the tenderers who participated in the Tenders.

The department shall carry out the technical bid evaluation solely based on the uploaded certificates/documents, BG towards EMD in the e-procurement system and open the price bids of the responsive bidders.

- 18.2 DELETED
- 18.3 DELETED.

## **19. Clarification on the Technical Bid.**

- 19.1 The tender opening authority may call upon any tenderer for clarification on the statements, documentary proof relating to the technical bid. The request for clarification and response thereto shall be in writing and it shall be only on the qualification information furnished by the tenderer. The clarification called for from the tenderers shall be furnished within the stipulated time, which shall not be more than a week.
- 19.2 The tenderer if so desirous, shall agree in writing to furnish the clarification called for within the stipulated time and, for disqualification and rejection of his tender in the event of failure to do so.

## **20. Examination of technical Bids and Determination of Responsiveness**

- 20.1 The Chief General Manager (T), HGCL will evaluate whether each Tenderer is satisfying the eligibility criteria prescribed in the tender document and declares them as a qualified Tenderer.
- 20.2 If the technical bid of a Tenderer is not satisfying any of the eligibility criteria it will be rejected by the Chief General Manager (T), HGCL. However, the tender accepting authority detects any error in the evaluation of Tenders by Chief General Manager (T), HGCL, and the tender accepting authority while returning the tenders may direct the Chief General Manager (T), HGCL as the case may be, to re-evaluate the tenders.
- 20.3 If any alteration is made by the tenderer in the tender documents, the conditions of the contract, the drawings, specifications or statements / formats or quantities the tender will be rejected.

## **21. Price Bid Opening:**

- 21.1 At the specified date and time, the price bids of all the technically qualified bidders will be opened online by the Chief General Manager (T), HGCL and the result will be displayed on the 'e'market place which can be seen by all the bidders who participated in the Tenders.
- 21.2 Only the price bids of qualified tenderers whose technical bids are found satisfying the eligibility criteria shall be opened on the date and time fixed.
- 21.3 Only the Price Bids of qualified Tenderers who's technical Bids are found satisfying the eligibility criteria shall be opened.

- 21.4 The Price Bid of the Unqualified Tenderers will not be opened and thereafter E.M.D. will be returned to the tenderers.
- 21.5 Tenders shall be scrutinized in accordance with the conditions stipulated in the Tender document. In case of any discrepancy of non-adherence conditions the Tender accepting authority shall communicate the same which will be binding both on the tender opening authority and the Tenderer. In case of any ambiguity, the decision taken by the Tender Accepting Authority on tenders shall be final.

## **22. Evaluation and Comparison of Price Bids**

- 22.1 The Chief General Manager (T), HGCL will evaluate and compare the price bids of all the qualified Tenderers.
- 22.2 Negotiations at any level are strictly prohibited. However, good gesture rebate, if offered by the lowest tenderer prior to finalization of tenders may be accepted by the tender accepting authority.
- 22.3 Selection of Tenderer among the lowest & equally quoted tenderers will be in the following orders:
- a) The tenderer whose bid capacity is higher will be selected.
  - b) In case the bid capacity is also same the tenderer whose annual turnover is more will be preferred.
  - c) Even if the criteria incidentally become the same, the turnover on similar works and thereafter machinery available for the work and then the clean track record will be considered for selection.

## **23. Discrepancy in Tender percentage quoted.**

- 23.1 In case of any discrepancy between the overall tender percentage quoted in words and figures, the percentage quoted in words shall prevail. In case the tenderer has quoted overall tender percentage only in words and not in figures or vice versa, such tender shall be treated as incomplete and rejected.

## **24. Process to be Confidential.**

- 24.1 Information relating to the examination, clarification, evaluation and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been

announced by the tender accepting authority. Any effort by a Tenderer to influence the processing of Tenders or award decisions may result in the rejection of his Tender.

- 24.2 No Tenderer shall contact the Chief General Manager (T), HGCL or any authority concerned with finalization of tenders on any matter relating to its Tender from the time of the Tender opening to the time the Contract is awarded. If the Tenderer wishes to bring additional information to the notice of the Chief General Manager (T), HGCL, it should do so in writing.
- 24.3 Before recommending / accepting the tender, the tender recommending / accepting authority shall verify the correctness of certificates submitted to meet the eligibility criteria and specifically experience. The authenticated agreements of previous works executed by the lowest tenderer shall be called for.
- 24.4 Tenders will be finalized by the Chief General Manager (T) for the works costing up to Rs.10 Cr. The tenders for the works costing more than Rs.10 Cr will be referred to HMDA/HGCL tender committee along with technical bid evaluation for consideration. The Committee of tenders shall scrutinize the tenders submitted by Chief General Manager in accordance with the conditions stipulated in the tender document and in case any discrepancy of non-adherence to the conditions, the same shall be communicated which will be binding both on the tender concluding authority and contractor. In case of any ambiguity the decision taken by the HMDA tender committee on tenders shall be final.

## **F. AWARD OF CONTRACT**

### **25. Award Criteria**

- 25.1 The Chief General Manager (T), HGCL will award or recommend to the competent tender accepting authority for award of the contract to the Tenderer who is found technically qualified as per the Tender conditions and whose price bid is lowest.
- 25.2 The tender accepting authority reserves the right to accept or reject any Tender or all tenders and to cancel the Tendering process, at any time prior to the award of Contract, without thereby incurring any liability to the affected

Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the reasons for such action.

**26. Notification of Award and Signing of Agreement.**

- 26.1 The Tenderer whose Tender has been accepted will be notified of the award of the work by the Chief General Manager (T), HGCL prior to expiration of the Tender validity period by registered letter. This letter (hereinafter and in the Conditions of Contract called “Letter of Acceptance”) will indicate the sum that the Government will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the “Contract Amount”).
- 26.2 When a tender is to be accepted the concerned tenderer shall attend the office of the Chief General Manager (T), HGCL concerned on the date fixed in the Letter of acceptance. Upon intimation being given by the Chief General Manager (T), HGCL, of acceptance of his tender, the tenderers shall make payment of the balance E.M.D., and additional security deposit wherever needed by way of or unconditional and irrevocable Bank Guarantee obtained from a **Nationalized Bank / Scheduled Bank** with a validity period of minimum Four months, and sign an agreement in the form prescribed by the department for the due fulfillment of the contract. Failure to attend the Chief General Manager’s office on the date fixed, in the written intimation, to enter into the required agreement shall entail forfeiture of the Earnest Money deposited.
- 26.3 The written agreement to be entered into between the contractor and the Government shall be the foundation of the rights and obligations of both the parties and the contract shall not be deemed to be complete until the agreement has first been signed by the contractor and then by the proper officer authorised to enter into contract on behalf of the Government.
- 26.4 The successful tenderer has to sign an agreement within a period of 15 days from the date of receipt of communication of acceptance of his tender. On failure to do so his tender will be cancelled duly forfeiting the E.M.D., paid

by him without issuing any further notice and action will be initiated for black listing the tenderer.

## **27. Corrupt or Fraudulent Practices**

27.1 The Government requires that the bidders / suppliers / contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Government

- (a) define for the purposes of the provision, the terms set forth below as follows:
  - (i) “corrupt practices” means the offering, giving, receiving or soliciting of anything of value to influence the action of a Government official in procurement process or in contract execution: and
  - (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Government and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish in Tender prices at artificial non-competitive levels and to deprive the Government of the benefits of free and open competition.
- (b) Will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
- (c) Will blacklist / or debar a firm, either indefinitely or for a stated period of time, if at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing a Government Contract.
- (d) Furthermore, Tenderers shall be aware of the provisions stated in the General Conditions of Contract.



**FORMS OF TENDER**  
**QUALIFICATION INFORMATION**

**QUALIFICATION INFORMATION CERTIFICATES TO ACOMPANY THE  
TENDER FORMS OF TENDER QUALIFICATION INFORMATION**

**Annexure –I**

**CHECKLIST TO ACOMPANY THE TENDER**

Sl. No.	Description	Submitted in Cover 'A' (Yes/No)	Page No. (to be filled by bidder)
1	Copy of Certificate of Incorporation/Registration under Companies Act 1956 or Companies Act 2013 (for Indian Companies)	Yes/No	
2	Copy of E.M.D. paid by BG/ online payment Rs. 7.62 Lakh in favour of CGM (T), HGCL, Hyderabad from Nationalized/Scheduled bank)	Yes/No	
3	Copy of Permanent Account Number (PAN) card	Yes/No	
4	Copy of latest Income Tax Return for 2023-24 with proof of receipt	Yes/No	
5	Copy of GST Registration Certificate	Yes/No	
6	Audited Balance Sheets & Profit & Loss Statements for FY 2022-23, 2023-24, and 2024-25; CA Certificate for Turnover	Yes/No	
8	Work Orders & Completion Certificates in completing a single video surveillance project involving 1,500 cameras for a Central/State Government Department, Ministry, or PSU, within the last Five (05) years as of the bid submission date	Yes/No	
9	Work Orders & Completion Certificates for CCTV System along with Command Control Centre Implementation at least One project $\geq$ Rs. 20 cr during last 5 years	Yes/No	
10	Valid ISO 27001:2018, ISO 9001:2015, CMMI Level 3 + Certificates (prior to tender published date)	Yes/No	
11	Proof of Minimum 20 Employees (EPF Statement, statutory compliance for current year)	Yes/No	
12	Bank Solvency Certificate (Rs. 5.00 Cr, Nationalized/ Scheduled bank, current FY)	Yes/No	
13	Certificate of Manufacturer's Authorization Form (MAF) for CCTV Cameras, Server, VMS, Switches, UPS, OFC & Cat6 Cables mentioned in OEM Criteria	Yes/No	
14	Information regarding any Litigation History	Yes/No	

**Note:**

1. All the copies of the certificates, documents etc., enclosed to the Technical bid shall be given page numbers on the right corner of each certificate, which will be indicated in column (4) against each item.

2. The information shall be filled-in by the Tenderer in the above table and statements-I to VII, and shall be enclosed to the Technical bid for the purposes of verification as well as evaluation of the tenderer's.

As per the directions issued by the Government in GO MS No.174 I&CAD (PW-REFORMS) dated 01.09.2008, submission of original hard copies of the uploaded scan copies of BG towards EMD by participating bidders to the tender opening authority before opening of the price bid is dispensed with. All the bidders shall invariably upload the scanned copies of BG in e-procurement system will be the primary requirement to consider the bid as responsive. The Department shall carry out the technical bid evaluation solely based on the uploaded certificates/documents, BG towards EMD and open the price bids of the responsive bidders. The Department will notify the Successful bidder for submission of original hard copies of all uploaded documents, BG towards EMD prior to entering into agreement. If any successful bidder fails to submit the original hard copies towards EMD and other documents within the stipulated time, the successful bidder will be suspended from participating in the tenders on e-procurement for a period of three years. The e-procurement system will deactivate the user ID of such defaulting successful bidder based on the trigger/recommendation by the tender inviting authority and also criminal prosecution shall be invoked

### DECLARATION

I / We ..... have gone through carefully all the Tender conditions and solemnly declare that I / we will abide by any penal action such as disqualification or black listing or determination of contract or any other action deemed fit, taken by, the Department against us, if it is found that the statements, documents, certificates produced by us are false / fabricated.

I / We hereby declare that, I / We have not been blacklisted / debarred / Suspended / demoted in any department in Telangana or in any State due to any reasons.

**Signature of the Tenderer**

### STATEMENT – I

Details of value of works executed in each year during the last 5 financial years by the Tenderer.

S. No	Financial Year	Value in Rs.
1	2	3
1		
2		
3		
4		
5		

- a) Attach certificate(s) issued by the Executive Engineer concerned or Head of Department showing work wise / year wise value of work done in respect of all the works executed by the Tenderer during last five (5) years

**OR**

- b) Certificate from Chartered Accountant supported with Annual Balance Sheet tallying with I.T. Clearance certificate.

**Signature of the Tenderer**

### **STATEMENT – II**

Details of similar works completed in the Name of the Tenderer during the last five financial years.

Sl. No	Name of work	Address of Agt. Concluding authority	Agt. No. & Date	Value of contract	Stipulated period of completion	Value of work done during last 5 years.	Total value of work done
1	2	3	4	5	6	7	8

Attach certificates issued by the Executive Engineer concerned or Head of Department

Signature of the Tenderer

### **STATEMENT – III**

Physical quantities executed by the Tenderer in the last ten financial years. [Work wise / year wise].

Financial year	Name of work	Quantities Executed year wise						

Attach certificates issued by the Executive Engineer concerned or Head of Department

Signature of the Tenderer

### **STATEMENT – IV**

Details of Existing Commitments.

Details of works on hand and, yet to be completed as on the date of submission of the Tender and works for which Tenders have been submitted are to be furnished.

#### **A) Existing Commitments on ongoing works:**

Sl. No	Name of work	Address of Agt. Concluding authority	Agt. No. & Date	Value of contract	Stipulated period of completion	Value of work done so far.	Balance Value of works to be completed	Anticipated date of completion	Updated value of balance work
1	2	3	4	5	6	7	8	9	10

Attach certificates issued by the Executive Engineer concerned or Head of Department, indicating the balance work to be done, and likely period of completion.

**Signature of the Tenderer**

**B) Details of works for which Tenders are submitted [awarded / likely to be awarded]**

S.No	Name of work	Address of Agt. Concluding authority	Estimated value of work	Stipulated period of completion	Date on which tender was submitted	Present stage of Tender.
1	2	3	4	5	6	7

**Signature of the Tenderer**

**STATEMENT – V.**

**Availability of Key Personnel**

Qualification and experience of Key Personnel proposed to be deployed for execution of the Contract. The minimum qualification of key staff shall favourably graduation in computer science/Electronics/IT and to be available till completion of O&M period.

Sl. No	Name	Designation	Qualification	Total Experience	Working with the Tenderer since.
1	2	3	4	5	6

**Signature of the Tenderer**

**STATEMENT - VII**

**Information on litigation history in which Tenderer is the Petitioner.**

S. No	Case No. / Year	Court where filed.	Subject Matter / Prayer in the case.	Répondent i.e., SE / CE	Present Stage.
1	2	3	4	5	6

**Signature of the Tenderer**

## TENDER

Date: .....

To  
The Chief General Manager (Technical),  
HGCL.

Sir,

I/We do hereby tender and if this tender be accepted, under take to execute the following work viz “Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad” with the estimated cost **Rs.**                      **/-** as described in the specifications deposited in the office of the Chief General Manager (T), HGCL Hyderabad with such variations by way of alterations or additions to, and omissions from the said works and method of payment as provided for in the “conditions of the contract” for the sum of **Rs.**                      **/-** or such other sum as may be arrived under the clause of the standard preliminary specifications relating to “Payment on lump-sum basis or by final measurement at unit rates”

I/WE have also quoted percentage excess or less on E.C.V., in Schedule ‘A’ Part-I, annexed (in words and figures) for which I/We agree to execute the work when the lumpsum payment under the terms of the agreement is varied by payment on measurement quantities.

I/WE have quoted Percentage excess or less on E.C.V., in Schedule ‘A’ Part – I both in words & figures. In case of any discrepancy between the Percentage excess or less on E.C.V., in words and figures, the rates quoted words only shall prevail.

I/WE agreed to keep the offer in this tender valid a period of Four month(s) mentioned in the tender notice and not to modify the whole or any part of it for any reason within above period. If the tender is withdrawn by me/us for any reasons whatsoever, the earnest money paid by me/us will be forfeited to Government

I/WE hereby distinctly and expressly, declare and acknowledge that, before the submission of my/our tender I/We have carefully followed the instructions in the tender notice and have read the A.P.S.S. and the preliminary specifications therein and the A.P.S.S. addenda volume and that I/We have made such examination of the contract documents and the plans, specifications and quantities and of the location where the said work is to be done, and such investigation of the work required to be done, and in regard to the material required to be furnished as to enable me/us to thoroughly understand the intention of same and the requirements, covenants, agreements, stipulations and restrictions contained in the contract, and in the said plans and specifications and distinctly agree that I/We will not hereafter make any claim or demand upon the Government based upon or arising out of any alleged misunderstanding or misconception /or mistake on my/or our part of the said requirement, covenants, agreements, stipulations, restrictions and conditions.

I/WE enclosed to my/our application for tender schedule a crossed (No.....Dt:.....) for Rs..... as earnest money not to bear interest.

I/WE shall not ASSIGN the contractor or sublet any portion of the same except the conditions in clause 5.1 of conditions of contract – General - A. In case if it becomes necessary such subletting with the permission of the Chief General Manager (T), HGCL shall be limited to (1) Labour contract, (2) Material contract, (3) Transport contract and (4) Engaging specialists for special item of work enjoined in A.P.S.S.

IF MY/OUR tender is not accepted the sum shall be returned to me/us on application when intimation IS sent to me/us of rejection or at the expiration of three months from last date of receipt of this tender, whichever is earlier. If my/our tender is accepted the earnest money shall be retained by the Government as security for the due fulfillment of this contract. If upon written intimation to me/us by the Chief General manager's Office, I/We fail to attend the said office on the date herein fixed or if upon intimation being given to me/us by the Chief General Manager (T), HGCL or acceptance of my/our tender, and if I/We fail to make the additional security



deposit or to enter into the required agreement as defined in condition-3 of the tender notice, then I/We agree the forfeiture of the earnest money.

Any notice required to be served on me/us here under shall be sufficiently served on me/us if delivered to me/us hereunder shall be sufficiently served on me/us if delivered to me/us personally or forwarded to me/us by post to (registered or ordinary) or left at my/our address given herein. Such notice shall if sent by post be deemed to have been served on me/us at the time when in due course of post it would be delivered at the address to which it is sent.

I/WE fully UNDERSTAND that the written agreement to be entered into between me/us and Government shall be the foundation of the rights of the both the parties and the contract shall not be deemed to be complete until the agreement has first been signed by me/us and then by the proper officer authorized to enter into contract on behalf of Government.

I/We agree to pay transaction fee @ 0.03% of ECV (Estimated Contract value) +18.00% GST over transaction fee with a cap of Rs.10,000/- (Rupees Ten thousand only) for all works with ECV upto Rs.50.00 Cr. and Rs.25,000/- (Rupees twenty five thousand only) for works with ECV above Rs. 50.00 Cr, at the time of bid submission electronically. For tenders wherever ECV is not available, i.e., for goods and services, the transaction fee shall be calculated on quoted value.

I/We agree to pay Service tax as levied by the GOI on transaction fee, electronic payment gateway charges.

I AM/WE ARE professionally qualified and my/our qualifications are given below:

Name	Qualified
------	-----------

I/WE will employ the following technical staff for supervising the work and will see that one of them is always at site during working hours, personally checking

all items of works and pay extra attention to such works as required special attention  
(eg) Reinforced concrete work.

Name of members of technical staff proposed to be employed	Qualification.

I / WE declare that I/WE agree to recover the salaries of the technical staff actually engaged on the work by the department, from the work bills, if I/We fail to employ technical staff as per the tender condition.

**TENDERERS / CONTRACTOR'S CERTIFICATE.**

- (1) I/WE hereby declare that I/We have perused in detail and examined closely the Andhra Pradesh Standard Specifications, all clauses of the preliminary specifications with all amendments and have either examined all the standards specifications or will examine all the standard specifications for items for which I/We tender, before I/We submit such tender and agree to be bound and comply with all such specifications for this agreement which I/We execute in the Irrigation & Command Area Development Department.
- (2) I/WE certify that I/We have inspected the site of the work before quoting my Percentage excess or less on ECV, I /We have satisfied about the quality, availability and transport facilities for stones sand and other materials.
- (3) I/WE am/are prepared to furnish detailed data in support of all my quoted rates, if and when called upon to do so without any reservations.
- (4) I/WE hereby declare that I/We will pay an additional security deposit in terms of conditions 3.6 of Instructions to tenderers
- (5) I/WE hereby declare that I am/we are accepting to reject my tender in terms of condition 3.7 of instructions to tenderers
- (6) I / WE hereby declare that I am / We are accepting for the Maintenance Period as 36 Months
- (7) a) I/WE declare that I/WE will procure the required construction materials including earth and use for the work after approval of the Engineer-in-Charge. The responsibility for arranging and obtaining the land for borrowing or

exploitation in any other way shall rest with me/us for the materials for construction, I/WE shall ensure smooth and un-interrupted supply of materials.

- b) I/WE declare that the responsibility for arranging and obtaining the land for disposal of spoil/soil not useful for construction purposes shall rest with me/us.
  - c) I/WE declare that I/WE shall not claim any compensation or any payment for the land so arranged for disposal of soil and the land for borrow area. My/our quoted percentage excess or less ECV., are inclusive of the land so arranged and I/We will hand over the land so arranged for disposal of soil to; the department after completion of work.
  - d) I/WE declare that I/WE will not claim any extra amount towards any material used for the work other than the quoted works for respective schedule 'A' items.
- (8) I/WE declare that I/WE will execute the work as per the mile stone programme, and if I/WE fail to complete the work as per the mile stone programme I abide by the condition to recover liquidated damages as per the tender conditions.
- (9) I/WE declare that I/WE will abide for settlement of disputes as per the tender conditions.

**DECLARATION OF THE TENDERER.**

- 1) I/WE have not been black listed in any department in Telangana due to any reasons.
- 2) I/WE have not been demoted to the next lower category for not filing the tenders after buying the tender schedules in a whole year and my/our registration has not been cancelled for a similar default in two consecutive years.
- 3) I/WE agree to disqualify me/us for any wrong declaration in respect of the above and to summarily reject my/our tender.

Address of the Tenderer :

Phone No.:

Fax No.:

CONTRACTOR.

**Note:** If the tender is made by an individual, it shall be signed with his full name and his address shall be given. If it is made by a firm, it shall be signed with the co-

partnership name by a member of the firm, who shall also sign his own name, and the name and address of each member of the firm shall be given, if the tender is made by a corporation it shall be signed by a duly authorized officer who shall produce with his tender satisfactory evidence of his authorization. Such tendering corporation may be required before the contract is executed, to furnish evidence of its corporate existence. Tenders signed on behalf of G.P.A. holder will be rejected

## CONDITIONS OF CONTRACT

### A. GENERAL

#### 1. Interpretation:

- 1.1 In interpreting these Conditions of Contract, singular also means plural, male also means female, and vice-versa. Headings have no significance. Words have their normal meaning under the language of the contract unless specifically defined. The Engineers-in-charge will provide instructions clarifying queries about the conditions of Contract.
- 1.2 The documents forming the Contract shall be interpreted in the following order of priority:
  - 1) Agreement
  - 2) Letter of Acceptance, notice to proceed with the works
  - 3) Contractor's Tender (Technical bid)
  - 4) Conditions of contract
  - 5) Specifications
  - 6) Drawings
  - 7) Bill of quantities (Price-bid)
  - 8) Any other document listed as forming part of the Contract.

#### 2. Engineer-in-Charge's Decisions:

- 2.1 Except where otherwise specifically stated, the Engineer-in-charge will decide the contractual matters between the Department and the contractor in the role representing the Department.

#### 3. Delegation:

- 3.1 The Engineer-in-charge may delegate any of his duties and responsibilities to other officers and may cancel any delegation by an official order issued.

#### 4. Communications:

- 4.1 Communications between parties, which are referred to in the conditions, are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

**5. Sub-contracting:**

- 5.1 If the prime contractor desires to sub-let a part of the work, he should submit the same at the time of filing tenders itself or during execution, giving the name of the proposed Sub-contractor, along with details of his qualification and experience. The Tender Accepting Authority should verify the experience of the Sub-contractor and if the Sub-contractor satisfies the qualification criteria in proportion to the value of work proposed to be sub-let, he may permit the same. The total value of works to be awarded on sub-letting shall not exceed 50% of contract value. The extent of subletting shall be added to the experience of the sub-contractor and to that extent deducted from that of the main contractor.

**6. Other Contractors:**

- 6.1 The Contractor shall cooperate and share the Site with other contractors, Public authorities, utilities, and the Department. The Contractor shall also provide facilities and services for them as directed by the Engineer-in-charge.

**7. Personnel:**

- 7.1 The Contractor shall employ the required Key Personnel named in the Schedule of Key Personnel to carry out the functions stated in the Schedule or other personnel approved by the Engineer-in-charge. The Engineer-in-charge will approve any proposed replacement of Key Personnel only if their qualifications, abilities, and relevant experience are substantially equal to or better than those of the personnel listed in the Schedule.
- 7.2 Failure to employ the required technical personnel as per agreement by the contractor, amount will be recovered from the contractors bills towards technical personnel as per SSR.
- 7.3 The technical personnel should be on full time and available at site whenever required by Engineer in Charge to take instructions.
- 7.4 The names of the technical personnel to be employed by the contractor should be furnished in the statement enclosed separately.
- 7.5 In case the contractor is already having more than one work on hand and has undertaken more than one work at the same time, he should employ separate technical personnel on each work.

7.6 If the contractor fails to employ technical personnel the work will be suspended or department will engage a technical personnel and recover the cost thereof from the contractor.

7.7 If the Engineer-in-charge asks the contractor to remove a person who is a member of Contractor's staff or his work force stating the reasons the Contractor shall ensure that the person leaves the site forthwith and has no further connection with the work in the contract.

**8. Contractor's Risks:**

8.1 All risks of loss of or damage to physical property and of personnel injury and death, which arise during and in consequence of the performance of the contract are the responsibility of the contractor.

**9. Site Inspections:**

9.1 The contractor should inspect the site and also proposed quarries of choice for materials source of water and quote his percentage including quarrying, conveyance and all other charges etc.

9.2 The responsibility for arranging the land for borrow area rests with the Contractor and no separate payment will be made for procurement or otherwise. The contractor's quoted percentage will be inclusive of land cost.

**10. Contractor to Construct the Works:**

10.1 The Contractor shall carryout the Work in accordance with the specifications and guidelines of local transport authority, traffic police.

10.2 Manufactured Sand: As per GO Ms No 37 Industries and Commerce (Mines-I) Dept., dated 29.05.2018, the Government have directed all the Engineering Works Departments to use Manufactured Sand (Rock sand) and natural river sand in the ratio of 50:50 in all the mixes of Cement concrete and in the items of works where sand is used earlier, to reduce the burden on Natural Resources and to make the sustainable ecosystem. Accordingly, the Manufactured Sand/Rock Sand shall be substituted proportionately in respective data items.

**11. Diversion of streams / Vagus / Drains.**

**12. Power Supply.**

HGCL will make available power source required for the scope of work. The selected agency has to make their own arrangements for power connections including cables, ducts, switches etc. The selected agency needs to utilise the power from the closest points on highway for equipment.

The contractor must ensure the connectivity from the power points to necessary location where ever required

**13. Temporary Diversions (Works on Roads / Highways)**

**14. Ramps:**

**15. Monsoon Damages:**

**16. The works to be completed by the intended completion date:**

- 16.1 The contractor may commence execution of the works on the start date and shall carry out the works in accordance with the programme submitted by the contractor, as updated with the approval of the Engineer-in-Charge, and complete the work by the Intended completion date.

**17. Safety:**

- 17.1 The Contractor shall be responsible for the safety of all activities including all equipments, manpower on the site during execution and operation & maintenance period. The selected agency has to ensure ESI, EPF, Insurance etc for equipment and manpower.

**18. Discoveries:**

- 18.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Government. The Contractor is to notify the Engineer-in-charge of such discoveries and carry out the Engineer-in-Charge's instructions for dealing with them.

**19. Possession of the Site.**

- 19.1 The Department shall give possession of the site to the Contractor. If possession of a part site is given, the Department will ensure that the part site so handed over is amenable to carry out the work at site by the Contractor.

**20. Access to the Site:**

- 20.1 The Contractor shall provide the Engineer-in-Charge and any person authorised by the Engineer-in-Charge, access to the site and to any place where work in



connection with the Contract is being carried out or is intended to be carried out.

**21. Instructions:**

- 21.1 The Contractor shall carry out all instructions of the Engineer-in-charge and comply with all the applicable local laws where the Site is located.

**22. Settlement of disputes:**

**23. SETTLEMENT OF CLAIMS:**

24. Settlement of claims for Rs.50,000/- and below All disputes or difference arising of or relating to the Contract shall be referred to the adjudication as follows:

a) Claims up to a value of Rupees 10,000/-. General Manager (T), HGCL to be nominated by the Chief General Manager (T), HGCL.

b) Claims above Rs.10, 000/- and up to Rupees 50,000/-.

Another Chief General Manager (T)/Chief Engineer of the same department (to be nominated by Managing Director)

**25. Deleted**

26. Deleted

27. Deleted

28. Claims above Rs.50,000/-.

All claims of above Rs.50,000/- are to be settled by a Civil Court of competent jurisdiction by way of Civil suit and not by arbitration.

29. A reference for adjudication under this clauses shall be made by the contractor within six months *from the date of occurring of any dispute event* and the dispute shall be resolved

**B. TIME FOR COMPLETION**

**30. Program:**

- 30.1 The total period of completion is for Six (6) months for supply and installation of Equipment and three years Operation and Maintenance (Extendable up to 5 years based on satisfactory performance) from the date of entering with agreement to proceed.

30.2 The attention of the Contractor is directed to the contract requirement at the time of beginning of the work, the rate of progress and proportionate value of work done from time to time as will be indicated by the Deputy General Manager (T) Certificate for the value of work done will be required. Date of commencement shall be from the date for concluding agreement but not the date of handing over site.

30.3 After signing the agreement, the contractor shall begin the work immediately and continuously proceed with them.

30.4 Rate of progress:

i) Work programme of achieving the milestones (Statement I attached).

Mile stone No.	Period from the date of signing agreement	Minimum percentage of work to be completed (Cumulative)	Liquidated damages amount
Milestone-1	End of 2nd month	25%	Rs. 50/- per lakh of balance work per each day for the period of delay which is shortfall for the mile stone will be levied in accordance with the approved construction program
Milestone-2	End of 4 <sup>th</sup> month	50%	
Milestone-3	End of 6 <sup>th</sup> month	100%	

ii) Site schedule of programme of handing over site to the contractor.

iii) The contractor shall achieve the financial progress, otherwise Liquidated Damages shall be levied as per the condition No.59.3.1 of conditions of contract.

30.5 The contractor shall commence the works on site within the period specified above after the receipt by him of a written order to this effect from the Chief General Manager (T), HGCL and shall proceed with the same with due expedition and without delay, except as may be expressly sanctioned or ordered by the Chief General Manager (T), HGCL.

30.6 Save in so far as the contractor may prescribe, the extent of portions of the site of which the contractor is to be given possession from time to time and the order in which such portions shall be made available to him and, Subject to any requirement in the contract as to the order in which the works shall be executed, the Chief General Manager (T), HGCL, the Executive Engineer's/Deputy General manager written order to commence the works,

give to the contractor possession of so much of the site as may be required to enable the contractor to commence proceed with the execution of the works in accordance with the programme if any, and otherwise in accordance with such reasonable proposals of the contractor as he shall by written notice to the Chief General Manager (T), HGCL make and will from time to time as the works proceed, give to the contractor possession of such further portions of the site as may be required to enable the contractor to proceed with the execution of the works with due dispatch in accordance with the said programme or proposals as the case maybe; if the contractor suffers delay or incurs cost from failure on the part of the Chief General Manager (T), HGCL to give possession in accordance with the terms of this clause, the Chief General Manager (T), HGCL shall grant an extension of time for the completion of works.

- 30.7 The contractor shall bear all costs and charges for special or temporary way leases required by him in connection with access to the site. The contractor shall also provide at his own cost any additional accommodation outside the site required by him for the purposes of the work.
- 30.8 Subject to any requirement in the contract as to completion of any section of the works before completion of the whole of the works shall be completed in accordance with provisions of clauses in the Schedule within the time stated in the contract calculated from the last day of the period named in the statement to the tender as that within which the works are to be commenced or such extended time as may be allowed.
- 30.9 Delays and extension of time:  
No claim for compensation on account of delays or hindrances to the work from any cause whatever shall lie, except as hereafter defined. Reasonable extension of time will be allowed by the officer competent to sanction the extension, for unavoidable delays, such as may result from causes, which in the opinion of the Executive Engineer/Deputy General Manager (T), are undoubtedly beyond the control of the contract. The Executive Engineer/Deputy General Manager (T) shall assess the period of delay or hindrance caused by any written instructions issued by him, at twenty five percent in excess or the actual working period so lost.

In the event of the Executive Engineer/ Deputy General Manager (T) failing to issue necessary instructions and thereby causing delay and hindrance to the contractor, the latter shall have the right to claim an assessment of such delay by the Chief General Manager (T), HGCL of the Circle whose decision will be final and binding. The contractor shall lodge in writing with the Executive Engineer/ Deputy General Manager (T) a statement of claim for any delay or hindrance referred to above, within fourteen days from its commencement, otherwise no extension of time will be allowed.

Whenever authorized alterations or additions made during the progress of the work are of such a nature in the opinion of the Executive Engineer / Deputy General Manager(T) as to justify an extension of time in consequence thereof.

If there are valid reasons for extending the contract period, proposals for extension of time should be sent to the authority competent to accord sanction of Extension of Agreement time sufficiently in advance and in any case at least one month before the expiry of the contract period.

**31. Work Programme:**

- 31.1 The Contractor shall furnish within fortnight of the order of the work a programme showing the sequence in which he proposed to carry out the work, monthly progress expected to be achieved, also indicating date of procurement of materials/equipments. The schedule should be such that it is practicable to achieve completion of the whole work within the time limit fixed and in keeping with the Mile stone programme specified and shall obtain the approval of the Engineer-in-charge. Further rate of the progress as in the program shall be kept up to date. In case it is subsequently found necessary to alter this program, the contractor shall submit sufficiently in advance the revised program incorporating necessary modifications and get the same approved by the Engineer - in - Charge. No revised program shall be operative without the approval of Engineer - in - Charge.
- 31.2 The Chief General Manager (T), HGCL, shall all times have the right, without any way violating this contract, or forming grounds for any claim, to alter the order of progress of the works or any part thereof and the contractor shall after

receiving such directions proceed in the order directed. The contractor shall also report the progress to the Chief General Manager (T), HGCL within 7 days of the Executive Engineers/ Deputy General Manager (T) direction to alter the order of progress of works.

- 31.3 The contractor shall give written notice to the Engineer - in - Charge whenever planning or progress of the works is likely to be delayed or disrupted unless any further drawings or order including a direction, instruction or approval is issued by the Engineer - in - Charge within a reasonable time. The notice shall include details of the drawing or order required and of why and by when it is required and of any delay or disruption likely to be suffered if it is late.

## **32. Speed of Work**

- 32.1 The Contractor shall at all times maintain the progress of work to conform to the latest operative progress schedule approved by the Engineer - in - Charge. The contractor should furnish progress report indicating the programme and progress once in a month. The Engineer - in - Charge may at any time in writing direct the contractor to slow down any part or whole of the work for any reason (which shall not be questioned) whatsoever, and the contractor shall comply with such orders of the Engineer - in - Charge. The compliance of such orders shall not entitle the contractor to any claim of compensation. Such orders of the Engineer - in - Charge for slowing down the work will however be duly taken into account while granting extension of time if asked by the contractor for which no extra payment will be entertained.

- 32.2 Delays in Commencement or progress or neglect of work and forfeiture of earnest money, Security deposit and withheld amounts:

If, at any time, the Engineer - in - Charge shall be of the opinion that the contractor is delaying commencement of the work or violating any of the provisions of the contract or neglecting or delaying the progress of the work as defined by the tabular statement. "Rate of progress" in the "Articles of Agreement", he shall so advise the contractor in writing and at the same time demand compliance in accordance with conditions of Tender Notice. If the contractor neglects to comply with such demand within seven days after receipt

of notice, it shall then or at any time thereafter, be lawful for the Engineer-in-Charge to take suitable action in accordance with Clause.60 of APSS.

**33. Suspension of works by the Contractor.**

33.1 If the Contractor shall suspend the works, or sublet the work without sanction of the Engineer-in-Charge, or in the opinion of the Engineer - in - Charge shall neglect or fail to proceed with due diligence in the performance of his part of the Contract as laid down in the Schedule rate of progress, or if he shall continue to default or repeat such default in the respects mentioned in clause.27 of the APSS, Engineer - in - Charge shall take action in accordance with Clause 61 of APSS.

33.2 If the Contractor stops work for 28 days and the Stoppage has not been authorised by the Engineer - in - Charge the Contract will be terminated under Clause 61 of APSS.

33.3 If the Contractor has delayed the completion of works the Contract will be terminated under Clause.61 of APSS.

**34. Extension of the Intended Completion Date:**

34.1 The Engineer - in - Charge shall extend or recommend for extension, in accordance with the Department / Government orders in force, the Intended Completion Date if a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date.

34.2 The Engineer - in - Charge shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Engineer for a decision upon the effect of a Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

**35. Delays Ordered by the Engineer-in-Charge:**

35.1 The Engineer - in - Charge may instruct the Contractor to delay the start or progress of any activity within the Work.

**36. Early Warning:**

- 36.1 The contractor is to warn the Engineer - in - Charge at the earliest opportunity of specific likely future events or circumstances that may adversely affect the execution of works.
- 36.2 The Contractor shall cooperate with the Engineer - in - Charge in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Engineer - in - Charge.

**37. Management Meetings:**

- 37.1 The Engineer - in - Charge may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the programme for remaining work and to deal with matters raised in accordance with the early warning procedure.

**C. QUALITY CONTROL**

**38. Identifying Defects:**

- 38.1 The Engineer - in - Charge shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer - in - Charge may instruct the Contractor to verify the Defect and to uncover and test any work that the Engineer considers may be a Defect.

**39. Tests:**

- 39.1 If the Engineer - in - Charge instructs the contractor to carry out a test not specified in the specification to check whether any work has a defect and the contractor shall pay for the test and any samples.

**40. Correction of Defects:**

- 40.1 The Engineer - in - Charge shall give notice to the contractor of any defects time to time during the 3 year Maintenance period. The Completion certificate shall not be issued till the defects are attended and hand over the equipment in working condition after the completion of Maintenance period.
- 40.2 Every time notice of a defect is given, the contractor shall correct the notified defect within the length of time specified by the Engineer - in - Charge's notice.

**41. Uncorrected defects**

- 41.1 If the contractor has not corrected the defect within the time specified in the Engineer-in-Charge's notice, the Engineer-in-Charge will assess the cost of having the defect corrected and the contractor will pay this amount.
- 41.2 The Engineer - in - Charge shall introduce O.K cards and prescribed the formats there of. O.K cards shall relate to all major components of the work. The contractor/his authorized representative shall be required to initiate and fill in and present the O.K card to the construction staff who would check the respective items and send to the quality control staff for final check and clearance/O.K. Any defects pointed out by the construction supervision staff or by the Quality Control staff shall promptly be attended to by the contractors and the fact of doing so be duly recorded on the back of O.K card.
- 41.3 The Engineer - in - Charge may also introduce check lists which shall be kept in Bound registers by the construction supervision staff. The contractor may be required to fill up these lists in the first instance and shall be subsequently checked by the Construction / Quality Control engineers.

**42. Quality Control and policy:**

- 42.1 The quality of construction shall be of highest standards.  
The materials, equipment, tools and plants and workmanship should be of high standards and acceptable quality conforming to the specifications.  
The contractor attention is directed to the requirements of materials under the clause "Materials and Workmanship" in the preliminary specifications of APSS. Materials conforming to the latest relevant I.S. Specifications and other approved Codes and Specifications shall be used on the work

**43. Quality plan:**

The contractor shall draw quality plan based on the Quality Management System of ISO 9001-2000 at the time of concluding agreement for his approval.

Quality plan for raw materials/ construction materials/ finished products/works:  
It shall be responsibility of the contractor to arrange for testing of all materials/ *equipments* procured for the works under such consignment or at regular intervals as may be specified in APSS or at department's instructions at his cost



and only after the engineer is satisfied fully with the test results, the ~~materials~~ equipments/accessories of those consignments will be allowed to be utilized on the work. The contractor shall maintain a record of test results which shall be made available to the engineers for the inspection.

No equipments/accessories shall be used unless it passes all the check/tests as per the acceptance criteria given and a record of all checks/tests/ verifications shall be maintained at site.

Tests required to be conducted at outside laboratories shall be done at those labs which have availability of required instruments traceable to national standards and which are approved by the Department/Government of India. Reports obtained from such labs should indicate the calibration status and traceability to national standards of their equipments for accepting the results.

**44 Quality control Lab:**

**45 Quality Registers**

The contractor shall maintain the Quality Test Registers at site in the format specified and record therein the results of all the tests conducted. The relevant reports of the tests conducted shall be maintained in a separate file.

**Return of Site documents:**

All the site records/ documents mentioned therein shall be returned to the Engineer-in-charge in full shape after the satisfactory completion of the work.

**46 Quality Control Inspections:**

In addition to the normal inspections by the regular staff in charge of the construction of work, periodical inspection by Chief General Manager (T), HGCL or his nominees, the work will also be inspected by any other authorized external quality control agencies. If any sub-standard materials/equipments, work or workmanship is noticed, action will be taken based on their observations and these will be affected by the Engineer-in-charge of the execution of the work.

**47 Quality Audit:**

The Department may engage external agencies for conducting quality audit in which case the following methodology would be adopted:

- i. The external agencies shall conduct quality control tests as per the standard procedures in the presence of Construction and Quality Control Engineers and the Contractor.
- ii. The observations of the external agencies on the quality of work should be recorded then and there and signatures of all the concerned obtained as a token of acceptance of the observations.
- iii. If any sub-standard materials/equipments, work or workmanship is noticed, action will be taken based on their observations and these will be affected by the Engineer-in-charge of the execution of the work.
- iv. For all works costing more than Rs.2.00 Crores the Contractor shall submit quality plan and also show proof of owning quality lab.

Note: In addition to the normal inspection by the regular staff in-charge of the construction of work, the work will also be inspected by the Executive Engineer /Superintending Engineer Quality control Circle or by the State or District level Vigilance Cell Unit and any other authorised external Agency if any sub-standard work or excess payments are noticed with reference to measurement books etc., during inspection, action will be taken based on their observations and these will be effected by the Engineer-in-Charge of the execution of the work.

#### D. Cost Control

##### **48. Bill of Quantities:**

48.1 The Bill Quantities shall contain items for the work to be done by the Contractor.

48.2 The Contractor is paid for the quantity of the work done at the estimate rate in the Bill of Quantities for each item plus or minus Tender percentage.

##### **49 Changes in the Quantities:**

49.1 The contractor is bound to execute all supplemental works that are found essential, incidental and inevitable during execution of main work.

49.2 The payment of rates for such supplemental items of work will be regulated as under; Supplemental items directly deducible from similar items in the original agreement.

49.2.1 The rates shall be derived by adding to or subtracting from the agreement rate of such similar item the cost of the difference in the quantity of materials labour between the new items and similar items in the agreement worked out with reference to the Standard Schedule of Rates adopted in the sanctioned estimate with which the tenders are accepted plus or minus over all tender percentage.

49.2.2 (a) Similar items but the rates of which cannot be directly deduced from the original agreement.

(b) Purely new items which do not correspond to any item in the agreement.

49.2.3 The rates of all such items shall be Estimated Rates plus or minus overall Tender premium.

## **50 Extra Items:**

50.1 Extra items of work shall not vitiate the contract. The contractor shall be bound to execute extra items of work as directed by the Engineer - in – Charge. The rates for extra items shall be worked out by the Executive Engineer as per the conditions of the Contract and the same are binding on the Contractor.

50.2 The contractor shall before the 15<sup>th</sup> day of each month, submit in writing to the Executive Engineer a statement of extra items if any that they have executed during the preceding month failing which the contractor shall not be entitled to claim any.

50.3 Entrustment of additional items:

50.3.1 Where ever additional items not contingent on the main work and outside the scope of original agreement are to be entrusted to the original contractor dispensing with bids and if the value of such items exceeds the limits up to which the officer is empowered to entrust works initially to contractor without calling for tenders, approval of **next higher authority** shall be obtained. Entrustment of such items on nomination shall be at rates not exceeding the estimated rates.

50.3.2 Entrustment of the additional items contingent on the main work will be authorised by the officers up to the monetary limits up to which they themselves are competent to accept items in the original agreement so long as the total amounts up to which they are competent to accept in an original

agreement rates for such items shall be worked out in accordance with the procedure (I) For all items of work in excess of the quantities shown in the Bill of Quantities of the Tenders, the rate payable for such items shall be estimate rates for the items (+) or (-) over all tender percentage accepted by the competent authority.

50.3.3 Entrustment of either the additional or supplemental items shall be subject to the provisions of the agreement entered into by a Competent Authority after the tender is accepted. The Chief General Manager (T), HGCL being the authority who entered into the agreement approves the rate for the items / variation in quantity in the current agreement. The items shall not be ordered by an officer on his own responsibility if the revised estimate or deviation statement providing for the same requires the sanction of higher authority.

**Note:** It may be noted that the term Estimate Rate used above means the rate in the sanctioned estimate with which the tenders are accepted, or if no such rates is available in the estimate, the rate derived will be with reference to the Standard Schedule of Rates adopted in the sanctioned estimate with which tenders are accepted.

## **51 Cash flow forecasts:**

51.2 When the program is updated, the contractor is to provide the Engineer-in-charge with an updated cash flow forecast.

## **52 Payment Certificates:**

52.1 The Contractor shall submit to the Engineer - in - Charge monthly statements of the estimated value of the work completed less the cumulative amount certified previously.

52.2 The Engineer - in - Charge shall check the Contractor's monthly statement within 14 days.

52.3 The value of work executed shall be determined by the Engineer - in - Charge.

52.4 The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.

52.5 The Engineer - in - Charge may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

### **53 Payments Terms:**

#### **1. 50% Payment – On Supply of Material/Equipments**

- Fifty percent (50%) of the Equipment Supplied shall be released upon successful delivery of all equipment and materials at the designated site(s), subject to verification of quantity and quality as per the purchase order/specifications and submission of the following:

- Delivery challans duly acknowledged by the consignee.
- Tax invoice(s) in original.
- Inspection/acceptance certificate from the authorized representative of the purchaser.
- Necessary BIS, ISO certificates for the quality assurance
- Submission of required technical specification make and model of equipment and certificates from the OEMs.

#### **2. 40% Payment –After Installation, Testing & Commissioning of Material/Equipments.**

- **Forty percent (40%)** of the total Equipment Supplied shall be released after successful installation, testing, and commissioning of the entire CCTV system, and upon submission of:

- Installation and commissioning report signed by the purchaser's representative.
- Proof of user training (if applicable).
- Site Acceptance Test (SAT)

#### **3. 10% Payment**

**Remaining ten percent (10%)** of the total Equipment Supplied shall be released after submission of following and all other required reports/certificates etc as per agreement.

- Performance guarantee/warranty certificate as per tender conditions.
- Insurance for equipments, test certificates etc.

#### 4. **O&M Payment:**

During Operation and maintenance Period, the Contractor will be entitled to following payments:

- i. Quarterly Payments will be made on monthly pro-rata rate basis on Manpower and O&M amount after receiving the invoices and on completion of the first quarter.
- ii. Except as set out in this Section, the Contractor will have no claim or entitlement whatsoever to revenue or any other payment under or pursuant to this Bid / Agreement whether from the Guarantor or from any third party. In case the Contract is terminated, the parties shall bear charges as per definition in the following section (Financial Consequences of Termination).

#### 5. **General Conditions**

- i. “All bank charge shall be borne by the Contractor.”

Tax deductions will be made at source as per statutory requirement from every payment made to the Contractor at rates notified from time to time.

#### **53.2 Payments and Certificates:**

53.2.1 Payments shall be adjusted for recovery of advance payments, liquidated damages in terms of tender conditions and security deposit for the due fulfilment of the contract. Payment will be made to the Contractor under the certificate duly recording the measurements in the Measurement Books, issued at reasonably frequent intervals by the Engineer - in - Charge, and intermediate payment will be the sum equal to 92½% of the value of work done as so certified and balance of 7½% will be withheld and retained as security for the due fulfilment of the contractor under the certificate to be issued by the Engineer-in-Charge.

53.2.2 In case of over payments or wrong payment if any made to the contractor due to wrong interpretation of the provisions of the contract, APSS or Contract

conditions etc., such unauthorized payment will be deducted in the subsequent bills or final bill for the work or from the bills under any other contracts with the HGCL or at any time thereafter from the deposits available with the HGCL.

53.2.3 Any recovery or recoveries advised by the Government Department either state or central, due to non-fulfilment of any contract entered into with them by the contractor shall be recovered from any bill or deposits of the contractor.

53.2.4 No claim shall be entertained, if the same is not represented in writing to the Engineer-in-Charge within 15 days of its occurrence.

53.2.5 The contractor is not eligible for any compensation for inevitable delay in handing over the site or for any other reason. In such case, suitable extensions of time will be granted after considering the merits of the case.

**53.2.6 Wherever the audit parties of A.G point out that the contractor is unintendly Benefited, then the employer is empowered to recover the same amount from the Contractor and it is binding on the contractor**

#### **54 Interest on Money due to the Contractor:**

No omission by the Executive Engineer or the sub-divisional officer to pay the amount due upon certificates shall vitiate or make void the contract, nor shall the contractor be entitled to interest upon any guarantee fund or payments in arrear, nor upon any balance which may, on the final settlement of his accounts, found to be due to him.

#### **55 Certificate of Completion of Execution of Works & Final Completion Certificate:**

55.1 When the whole of the work/commissioning has been completed and has satisfactory passed any final test that may be prescribed by the Contract, the Contractor may give a notice to that effect to the Engineer-in-Charge accompanied by an undertaking to carry out any rectification work during the period of maintenance, such notice and undertaking shall be in writing and shall be deemed to be request by the Contractor for the Engineer-in-Charge to issue a Certificate of completion in respect of the Execution of Works. The Engineer-in-Charge shall, within twenty one days of the date of delivery of such notice either issue to the Contractor, a certificate of completion of execution of work stating the date on which, in his opinion, the works were completed in accordance with the Contract

or give instructions in writing to the Contractor specifying all the Works which, in the Engineer-in-Charge's opinion, required to be done by the Contractor before the issue of such Certificate. The Engineer-in-Charge shall also notify the Contractor of any defects in the Works affecting completion that may appear after such instructions and before completion of the Works specified there in. The Contractor shall be entitled to receive such Certificate of the Completion of execution of work within twenty one days of completion to the satisfaction of the Engineer-in-Charge of the Works so specified and making good of any defects so notified.

55.2.1 Similarly, the Contractor may request and the Engineer-in-Charge shall issue a Certificate of Completion in respect of:

- a) Any section of the permanent works in respect of which a separate time for completion is provided in the Contract, and
- b) Any substantial part of the permanent works which has been both completed to the satisfaction of the Engineer-in-Charge and occupied or used by the department.

55.2.2 If any part of the Permanent Works shall have been completed and shall have satisfactorily passed any final test that may be prescribed by the Contract, the Engineer-in-Charge may issue such certificate, and the Contractor shall be deemed to have undertaken to complete any outstanding work in that part of the Works during the period of Maintenance.

**56 Taxes included in the bid:**

GST @ 18% will be applicable as per Circular Memo No.1823205-A/231/A1/WP/2022, dated: 29.12.2022.

**57 Price Adjustment: Deleted**

**58 Retention**

58.1 .The department shall retain from each payment due to the contractor @ the rate of 7.5% of bill amount until completion of the commissioning of the CCTV cameras i.e., till completion of works (9 months) and also during the Operation and Maintenance period (i.e., 3 years period).

58.2 On completion of the construction works (i.e., Six (6) months), one-third of the total amount retained i.e., 2.5% of retention money is re-paid to the



Contractor upon Engineer-in-Charge has certified that all the Defects notified by the Engineer-in-Charge to the Contractor have been corrected. The Contractor may substitute remaining retention money (i.e., 5% of retention money) with an **“on demand”** Bank Guarantee

58.3 On completion of the three (3) years Operation and Maintenance Period two-third of the total amount retained (i.e., 5% of retention money) is re-paid to the Contractor including 7.5% retention money retained towards O&M period and the Engineer-in-Charge has certified that all the Defects notified by the Engineer-in-Charge to the Contractor before the end of this period have been corrected.

## **59 Liquidated Damages:**

59.1 If for any reason, which does not entitle the contractor to an extension of item, the rate of progress of works, or any section is at any time, in the opinion of the Employer/ Employer's representative too slow to ensure completion by the prescribed time or extended time for completion Employer/ Employer's representative shall so notify the contractor in writing and the contractor shall there upon take such steps as are necessary and the Employer/ Employer's representative, may approve to expedite progress so as to complete the works or such section by the prescribed time or extended time. The contractor shall not be entitled to any additional payment for taking such steps. If as a result of any notice given by Employer/ Employer's representative under this clause the contractor shall seek Employer/ Employer's representative permission to do any work at night or on Sundays, if locally recognized as days or rest, or their locally recognized equivalent, such permission shall not be unreasonably refused.

59.2 If the contractor fails to complete whole of the works or any part thereof or section of the works within the stipulated periods of individual mile stones (including any bonafide extensions allowed by the competent authority without levying liquidated damages), the Employer/ Employer's representative may without prejudice to any other method of recovery will deduct as detailed below for the period of delays subject to a maximum of 10% of the contract

value as a penalty from any monies in his hands due or which may become due to the contractor. The payment or deductions of such damages shall not relieve the contractor from his obligation to complete the works, or from any other of his obligations and liabilities under the contract.

59.3.1 The liquidated damages will be as mentioned in the service levels (Appendix – 1) in this document

60. Mobilization Advance: No Mobilization Advance will be paid.

#### **61 Securities:**

The Earnest Money Deposit and Additional Security (for discount tender percentage beyond **25%**) shall be provided to the Department not later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank acceptable to the Department. The Earnest Money shall be valid until a date 28 days from the date of expiry of 3 years of O&M and the additional security shall be valid until a date 28 days from the date of issue of the certificate of completion.

#### **62 Cost of Repairs:**

Loss or damage to the works or materials to the works between the start date and the end of the defects correction periods shall be remedied by the contractor at the contractor's cost if the loss or damage arises from the contractor's acts or omissions.

### **E. FINISHING THE CONTRACT**

#### **63 Completion:**

The Contractor shall request the Engineer-in-Charge to issue a Certificate of completion of the Works and the Engineer-in-Charge will do so upon deciding that the work is completed.

#### **64 Taking Over:**

The Department shall takes over the Site and the Works within twenty-eight (28) days of completion of O&M period all the installed equipments, accessories etc in working condition along with relevant software's, licenses,

warranty, insurance certificates etc subject to satisfaction of Engineer-in-charge failing which any shortfall is liable for adjustment in any monies/security deposit payable to the contractor.

#### **65 Final Account:**

The Contractor shall supply to the Engineer-in-Charge a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the 3 years of O&M. The Engineer-in-Charge shall issue a Completion Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer-in-Charge shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the final Account is still unsatisfactory after it has been resubmitted, the Engineer-in-Charge shall decide on the amount payable to the Contractor and issue a payment certificate within 56 days of receiving the Contractor's revised account.

#### **66 Termination: APSS**

- a. The Department may terminate the Contract if the contractor causes a fundamental breach of the Contract.
- b. Fundamental breaches of Contract include, but shall not be limited to the following.
  - a) The Contractor stops work for 28 days when no stoppage of work is shown on the current program and the stoppage has not been authorized by the Engineer-in-Charge.
  - b) The Contractor is made bankrupt or goes into liquidation other than for a reconstruction or amalgamation.
  - c) The Engineer-in-Charge gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer-in-Charge and
  - d) The Contractor does not maintain a security which is required and

- e) The Contractor has delayed the completion of works by the number of days for which the maximum amount of liquidated damages can be paid as defined.
- f) If the contractor, in the judgment of the Department has engaged in corrupt or fraudulent practices in competing for or in the executing the contract.

For the purpose of this paragraph: “corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. “Fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Department / Government and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the HMDA of the benefits of free and open competition.

- c. Notwithstanding the above the Department may terminate the contract for convenience.
- d. If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secured leave the Site as soon as reasonably possible.

#### **67 Payment upon Termination:**

If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer-in-Charge shall issue a certificate for the value of the work done less advance payments received upon the date of the issue of the certificate, less other recoveries due in terms of the Contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed. Additional Liquidated Damages shall not apply. If the total amount due to the Department exceeds any payment due to the Contractor the difference shall be a debt payable to the Department.

**68 Property:**

All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Department if the Contract is terminated because of Contractor's default.

**69 Release from Performance:**

If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Department or the Contractor the Engineer-in-Charge shall certify that the contract has been frustrated. The Contractor shall make the site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all works carried out before receiving it and for any work carried out afterwards to which commitment was made.

**F. SPECIAL CONDITIONS****70 Water Supply:**

The Contractor has to make his own arrangements for water required for the work and to the colonies and work sites, which are to be established by the Contractor.

**71 Land:****a. Land for Contractor's use:**

The contractor will be permitted to use Department land for execution of work. The contractor shall have to make his own arrangements for acquiring and clearing the site, leveling, providing drainage and other facilities for labour staff colonies, site office, work-shop or stores and for related activities. The Contractor shall apply to the Department within a reasonable time after the award of the contract and at least 30 days in advance of its use, the details of land required by him for the work at site and the land required for his camp and should any private land which has not been acquired, be required by the contractor for his use. The same may be acquired by the contractor at his own cost by private negotiations and no claim shall be admissible to him on this account.

The Engineer-in-Charge reserves the right to refuse permission for use of any department land for which no claim or compensation shall be admissible to the

contractor. The contractor shall, however, not be required to pay cost or any rent for the Department land given to him.

**b. Surrender of occupied land**

- i) The Government land as here in before mentioned shall be surrendered to the Engineer-in-Charge within seven days, after issue of completion certificate. Also no land shall be held by the contractor longer than the Engineer-in-Charge shall deem necessary and the contractor shall on the receipt of due notice from the Engineer-in-Charge, vacate and surrender the land which the Engineer-in-Charge may certify as no longer required by the Contractor for the purpose of the work.
- ii) The contractor shall make good to the satisfaction of the Engineer-in-Charge any damage to areas, which he has to return or to other property or land handed over to him for purpose of this work. Temporary structures may be erected by the contractor for storage sheds, offices, residences etc., for non-commercial use, with the permission of the Executive Engineer on the land handed over to him at his own cost. At the completion of the work these structures shall be dismantled site cleared and handed over to the Executive Engineer. The land required for providing amenities will be given free of cost from Department lands if available otherwise the contractor shall have to make his own arrangements.

**c. Contractor not to dispose of Spoil etc.,**

The contractor shall not dispose off or remove except for the purpose of fulfilment of this contract, sand, stone, clay ballast, earth, trees and shrubs or other materials obtained in the excavation made or lying on the site of the work, and all such materials and produce shall remain property of the HMDA. The Department may upon request from the contractor, or if so stipulated in the conditions of the contract allow the contractor to use any of the above materials for the works either free of cost or after payment as may be specifically mentioned or considered necessary during the execution of the work.

## **72 Roads:**

In addition to existing public roads and roads Constructed by Government, if any, in work area all additional approach roads inside work area and camp required by the Contractor shall be constructed and maintained by him at his own cost. The layout design, construction and maintenance etc., of the roads shall be subject to the approval of the Engineer-in-Charge. The contractor shall permit the use of these roads by the Department / Government free of charge.

It is possible that work at, or in the vicinity of the work site will be performed by the Department or by other contractors engaged in work for the Department during the contract period. The contractor shall without charge permit the Department and such other contractor and other workmen to use the access facilities including roads and other facilities, constructed and acquired by the contractor for use in the performance of the works.

The contractor's heavy construction traffic or tracked equipment shall not traverse any public roads or bridges unless the contractor has made arrangement with the authority concerned. In case contractor's heavy construction traffic or tracked equipment is not allowed to traverse any public roads or bridges and the contractor is required to make some alternative arrangements, no claim on this account shall be entertained.

The contractor is cautioned to take necessary precautions in transportation of construction materials to avoid accidents.

## **73 Payment for Camp Construction**

No payment will be made to the contractor for construction, operation and maintenance of camp and other camp facilities and the entire cost of such work shall be deemed to have been included in the tendered rate for the various items of work in the schedule of quantities and bids.

## **74 Explosive And Fuel Storage Tanks**

No explosive shall be stored within 1/2 (half) KM of the limit of the camp sites. The storage of gasoline and other fuel oils or of Butane, Propane and other liquefied petroleum gases, shall conform to the regulations of Andhra Pradesh State Government

and Government of India. The tanks, above ground and having capacity in excess of 2000 liters, shall not be located within the camp area, nor within 200m, of any building.

#### **75 Labour:**

The contractor shall, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

Labour importation and amenities to labour and contractor's staff shall be to the contractor's account. His quoted percentage shall include the expenditure towards importation of labour amenities to labour and staff;

The contractor shall, if required by the Engineer-in-Charge, deliver to the Engineer-in-Charge a written in detail, is such form and at such intervals as the Engineer-in-Charge may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the contractor on the Site and such information respecting Contractor's Equipment as the Engineer-in-Charge may require.

#### **76 Transportation of Labour:**

The contractor shall make his own arrangement for the daily transportation of the labour and staff from labour camps colonies to the work spot and no labour or staff of the contractor shall stay at the work spot. No extra payment will be made to the contractor for the above transportation of the labour and his quoted percentage to the work shall include the transportation charges of labour from colonies to work spot and back.

The contractor will at all times duly observe the provisions of employment of children Act XXVI of 1938 and any enactment or modification of the same and will not employ or permit any person to do any work for the purpose under the provisions of this agreement in contravention of said Act. The contractor here by agrees to indemnify the department from and against all claims, penalties which may be suffered by the department or any person employed by the department by any default on the part of the contractor in the observance and performance of the provisions of the employment of children Act. XXVI of 1938 or any enactment or modification of the same.



As per Govt. memo No.721/Gr.(1)/81-35, dt:17.11.87. The contractor shall obtain the insurance at his own cost to cover the risk on the works to labour engaged by him during period of execution against fire and other usual risks and produce the same to the Executive Engineer concerned before commencement of work.

## **77 Safety Measures:**

1. The contractor shall take necessary precautions for safety of the workers and preserving their health while working in such jobs, which require special protection and precautions. The following are some of the measures listed but they are not exhaustive and contractor shall add to and augment these precautions on his own initiative where necessary and shall comply with directions issued by the Executive Engineer or on his behalf from time to time and at all times.
2. Providing protective foot wear to workers situations like mixing and placing of mortar or concrete sand in quarries and places where the work is done under much wet conditions.
3. Providing protective head wear to workers at places like underground excavations to protect them against rock falls.
4. Providing masks to workers at granulates or at other locations where too much fine dust is floating about and sprinkling water at frequent intervals by water hoses on all stone crushing area and storage bins abate to dust.
5. Getting the workers in such jobs periodically examined for chest trouble due to too much breathing in to fine dust.
6. Taking such normal precautions like fencing and lightening in excavation of trenches, not allowing rolls and metal parts of useless timber spread around, making danger areas for blasting providing whistles etc.
7. Supply work men with proper belts, ropes etc., when working in precarious slopes etc.
8. Avoiding named electrical wire etc., as they would electrocute the works.
9. Taking necessary steps towards training the workers concerned on the machinery before they are allowed to handle them independently and taking all

necessary precautions in around the areas where machines hoists and similar units are working.

### **78 Fair Wage Clause:**

The contractor shall pay not less than fair wages to labourers engaged by him on the work.

“Fair” wages means wages whether for time or piecework notified by the Government from time to time in the area in which the work is situated.

The contractor shall notwithstanding the revisions of any contract to the contrary cause to be paid to the labour, in directly engaged on the work including any labour engaged by the sub-contractor in connection with the said work, as if the labourers had been directly employed by him.

In respect of labour directly or indirectly employed in the works for the purpose of the contract, part of the agreement the contractor shall comply with the rules and regulations on the maintenance of suitable records prescribed for this purpose from time to time by the Government. He shall maintain his accounts and vouchers on the payment of wages to the labourers to the satisfaction of the Executive Engineer.

The Executive Engineer shall have the right to call for such record as required to satisfy himself on the payment of fair wages to the labourers and shall have the right to deduct from the contract amount a suitable amount for making good the loss suffered by the worker or workers by reason of the “fair wages” clause to the workers.

The contractor shall be primarily liable for all payments to be made and for the observance of the regulations framed by the Government from time to time without prejudice to his right to claim indemnity from his sub-contractors.

As per contract labour (Regulation and abolition) Act, 1970 the contractor has to produce the license obtained from the licensing officers of the labour department along with the tender or at the time of agreement.

Any violation of the conditions above shall be deemed to be a breach of his contract.

Equal wages are to be paid for both men and women if the nature of work is same and similar.

The contractor shall arrange for the recruitment of skilled and unskilled labour local and imported to the extent necessary to complete the work within the agreed period as directed by the Executive Engineer in writing.

#### **79 Indemnity Bond:**

**NAME OF WORK:** “Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad”

We \_\_\_\_\_, contractor Resident of \_\_\_\_\_ do hereby bind our self to pay all the claims which may come (a) under Workmen’s Compensation Act. 1933 with any statutory modification thereof and rules there under or otherwise for or in respect of any damage or compensation payable in connection with any accident or injury sustained (b) under Minimum wages Act 1948 (c) under payment of wages Act.1936 (d) under the Contractor labour (Regulation and Abolition) Act. 1970 by workmen engaged for the performance of the business relating to the above contract. Failing such payment of claims of workmen engaged in the above work, we abide in accepting for the recovery of such claims, affected from any of our assets with the departments.

**Signature of the Contractor**

#### **80 Compliance With Labour Regulations:**

During continuance of the contract, the contractor and his sub contractors shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notifications that may be issued under any labour law in future either by the State or the Central Government or the local authority and also applicable labour regulations, health and sanitary arrangements for workmen, insurance and other benefits. Salient features of some of the major labour laws that are applicable to construction industry are given below. The contractor shall keep the Department indemnified in case any action is taken against Department by the competent authority on account of

contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Department is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provision stipulated in the notifications/bye laws/Acts/ Rules/ regulations including amendments, if any, on the part of the contractor, the Engineer-in-charge /Department shall have the right to deduct any money due to the contractor including his amount of performance security. The Department/Engineer-in-Charge shall also have right to recover from the contractor any sum required or estimated to be required for making good the loss or damage suffered by the Department.

The employees of the Contractor and the Sub-contractor in no case shall be treated as the Department of the Department at any point of time.

**81 Salient features of some major labour laws applicable to establishment engaged in buildings and other construction work:**

- (a) Workmen compensation Act 1923: The Act provides for compensation in case if injury by accident arising out of and during the course of employment.
- (b) Payment of Gratuity Act 1972: Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if any employee has completed 5 years service or more, or on death, the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments, employing 10 or more employees.
- (c) Employees P.F. and Miscellaneous Provision Act, 1952: The Act provides for monthly contributions by the Department plus workers @ 12% or 10%. The benefits payable under the Act are:
  - (i) Pension or family pension on retirement or death, as the case may be.
  - (ii) Deposit linked insurance on the death in harness of the worker.
  - (iii) Payment of P.F. accumulation on retirement/death etc., every employer a statement showing the recoveries of contribution in respect of employees

employed by or through him contractor shall within 7 days of the close of every month, submit to the principal.

(d) Maternity Benefit Act 1951: The Act provides for leave and some other benefits to women employees in case of confinements or miscarriage etc.

(e) Contract Labour (Regulation & Abolition) Act, 1970: The Act provides for certain welfare measures to be provided by the contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided by the Principal Employer by Law. The Principal Employer is required to take certificate of Registration and the contractor is required to take license from the designated Officer.

1. The Act is applicable to the establishments or Contractor of Principal Employer, if they employ 5 or more contract labour, on any day of the preceding 12 months.

2. The payment of wages shall be made by way of cheque or by crediting the salaries to the Bank Account of the concerned workers Where banking facilities are not available, the wages may be paid in cash.

3. (i) The Principal Employer shall ensure the presence of his authorized representative at the place and time of disbursement of wages by the contractor to workmen and it shall be the duty of the contractor to ensure the disbursement of wages in the presence of such authorized representative.

- (ii) The authorized representative of the Principal Employer shall record under his signature a Certificate at the end of the entries in the Register of Wages or the Register of Wages-cum-Muster Roll, as the case may be

(f) Minimum wages Act, 1948: The Contracting Agency is supposed to pay not less than the Minimum wages fixed by appropriate Government as per provisions of the Act if the employment is covered under scheduled employment of

- i. Construction of Projects including Dams and Multipurpose Projects and
  - ii. Construction or Maintenance of Roads and Building Operations. The wages shall be paid subject to the following conditions.
    1. The Contracting Agency after thorough verification shall pay the wages to the workers according to the minimum wages fixed by the Government or Labour Rates announced by the BoCE in SoR, whichever is higher.
    2. The Contracting Agency shall also pay the allowances if any notified by the Government from time to time to the respective scheduled employments and the allowances incorporated by the BoCE in SoR in addition to the above wages.
    3. The wages paid in kind i.e., in the form of essential commodities etc., cannot be taken as wages unless specifically notified by the appropriate Government.
- (g) Payment of wages Act 1936: It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.

**Fair Wage Clause:** The Executive Engineer/Engineer-in-Charge shall have the right to call for such record as required to satisfy himself on the payment of fair wages to the labourers and shall have the right to deduct from the contract amount a suitable amount for making good the loss suffered by the worker or workers by the reason of the "fair wages" clause to the workers.

- (h) Equal Remuneration Act 1979: The Act provides for payment of equal wages for work of equal nature to Male or Female workers and for not making discrimination against Female employee in the matters of transfers, training and promotions etc.
- (i) Payment of Bonus Act 1965: The Act is applicable to all establishments employing 20 or more employees. The Act provides for payment of annual bonus subject to a minimum of 8.33% of wages and maximum of 20% of wages to employees drawing Rs.21,000/- per month or less. The bonus to be paid to employees getting less than Rs.7,000/- per month shall be worked out

by taking wages as Rs.7,000/- per month only or the minimum wage for the scheduled employment, as fixed by the appropriate Government whichever is higher. (j) Industrial Disputes Act 1947: The Act lays down the machinery and procedure for resolution of Industrial disputes, in what situations a strike or lock- out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.

- (k) Industrial Employment (Standing Orders) Act 1946: It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the State and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Department on matters provided in the Act and get the same certified by the designated Authority.
- (l) Trade Unions Act 1926: The Act lays down the procedure for registration of trade unions of workmen and Departments. The Trade Unions registered under the act have been given certain immunities from civil and criminal liabilities.
- (m) Child Labour (Prohibition & Regulation) Act 1986: The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulation of employment of children in all other occupations and processes; Employment Child Labour is prohibited in Building and Construction Industry.
- (n) Inter-State Migrant workmen's (Regulation of Employment & Conditions of service) Act 1979: The Act is applicable to an establishment, which employs 5 or more inter-state migrant workmen or through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another State). The inter State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, travelling expenses from home up to the establishment and back, etc. As per contract labour (Regulation and abolition) Act. 1970 the contractor has to produce the license obtained from the licensing officers of the labour department along with the tender or at the time of agreement.

- (o) The Building and Other Construction workers (Regulation of Employment and conditions of service) Act, 1996 and the Cess Act of 1996: All the establishments who carry on any building or other construction work and employs 10 or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Department of the establishment is required to provide safety measures at the Building or construction work and other welfare measures, such as Canteens, First-aid facilities, Ambulance, Housing accommodations for workers near the work place etc. The Principal Employer and the Contractor to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government. The Contractor shall register the workers engaged by him as beneficiaries under the Telangana Building & Other Construction Workers Welfare Board, so as to enable the workers to be eligible for monetary and welfare benefits provided under the Telangana Building & Other Construction Workers Welfare Board.
- (p) Bonded Labour System (Abolition) Act, 1976: If the Contractor pay the wages to the workers less than the minimum wages, it comes under other form of forced labour and comes under the purview of the Act.
- (q) The Motor Transport Workers Act, 1961: The Contractor who employ five or more motor transport workers in their establishment shall obtain a license from the appropriate authority for the vehicles either owned by them or engaged on hire.
- (r) **Employment-cum-Wage Cards**: The Executive Engineer/ Engineer-in- Charge should also take necessary steps for scrupulous implementation of following by the Contractor.
- (i) Issuing of Employment-cum-Wage Cards to all the construction contract workers by the Contractor prior to the disbursement of their wages.
- (ii) Obtaining of required Licences and Registration certificates by the Contractor.



iii) Making of entries in the relevant Registers and Records and enrolment of construction contract workers as members with the Telangana State Building & Other Construction Workers Welfare Board by the Contracting Agency.

- (s) **Maintenance of Records and Registers:** The Contracting Agency shall submit copies of all the prescribed registers and records on monthly basis to the Executive Engineer/Engineer-in-Charge for preservation of the said registers and records for a period not less than 3 years after completion of work or till completion of maintenance period, whichever is higher.

**Note:** All the above Labour laws/Acts/GOs/guidelines and as amended by the Government from to time shall be applicable in execution of Works Contract and binding on the Contractor/Agency and the Contractor /Agency shall implement them without fail.

## **82 Liabilities of the Contractor**

### **a. Accident Relief and workmen compensation:**

The contractor should make all necessary arrangements for the safety of workmen on the occurrence of the accident, which results in the injury or death of any of the workmen employed by the contractor, the contractor shall within 24 hours of the happenings of the accident and such accidents should intimate in writing to the concerned Asst. Engineer / Asst. Executive Engineer of the Department the act of such accident. The contractor shall indemnify Department against all loss or damage sustained by the Department resulting directly or indirectly from his failure to give intimation in the manner aforesaid including the penalties or fines if any payable by Govt. as a consequence of Govt. failure to give notice under workmen's compensation Act or otherwise conform to the provisions of the said Act. In regard to such accident.

- b. In the event of an accident in respect of which compensation may become payable under the workmen's compensation Act VIII 23 whether by the contractor, by the Department it shall be lawful for the Executive Engineer to retain such sum of money which may in the opinion of the Executive Engineer be sufficient to meet such liability. The opinion of the Executive Engineer shall be final in regard to all matters arising under this clause.

- c. The contractor shall at all times indemnify the Govt. of A.P. against all claims which may be made under the workmen's compensation act or any statutory modification thereafter or rules there under or otherwise consequent of any damage or compensation payable in consequent of any accident or injuries sustained or death of any workmen engaged in the performance of the business relating to the contractor.

### **83 Contractor's Staff, Representatives and Labour:**

- (a) The contractor shall, at all times, maintain on the works, staff of qualified Engineers, and Supervisors of sufficient experience of similar other jobs to assure that the quality of work turned out shall be as intended in the specifications. The contractor shall also maintain at the works, a Work Manager or sufficient status, experience and office and duly authorise him to deal with all aspects of the day-today work. All communications to any commitments by the Work Manager shall be considered as binding on the Contractor.
- (b) The Contractor shall at all times submit details of skilled and unskilled labour and equipment employed to the Engineer-in-Charge in prescribed proforma as he may require to assess and ensure the proper progress of work.
- (c) If the contractor does not employ the technical person agreed to on the work a fine of Rs.25,000/- will be imposed. If he does not employ for 30 days, thereafter it becomes a fundamental breach of contract.

### **84 Accommodation and food:**

The contractor should arrange accommodation he needs, at his own cost. The contractor shall make his own arrangements for supply of food grains, fuel and other provision to his staff and labourers including controlled commodities.

### **85 Relationship:**

Contractor shall have to furnish information along with tender, about the relationship he is having with any officer of the Department, Government of Telanagana of the rank Assistant Engineer and above engaged in the work and

any officer of the rank of Assistant Secretary and above of the Department of Government of Telanagana.

**86 Protection of adjoining premises:**

The contractor shall protect adjoining sites against structural, decorative and other damages that could be caused by the execution of these works and make good at his cost any such damages.

**87 Work during night or on Sundays and holidays:**

The works can be allowed to be carried out during night, Sundays or authorised holidays in order to enable him to meet the schedule targets and the work shall require almost round the clock working keeping in view:

- (i) The provisions of relevant labour laws being adhered to:
- (ii) Adequate lighting, supervision and safety measures are established to the satisfaction of the Engineer-in-Charge and
- (iii) The construction programme given by the Contractor and agreed upon by the Engineer-in-Charge envisages such night working or working during Sundays or authorized holidays.

**88 Layout of materials stacks:**

The contractor shall deposit materials for the purpose of the work on such parts only of the ground as may be approved by the Engineer-in-Charge before starting work. A detailed survey, clearly indicating position and areas where materials shall be stacked and sheds built is to be conducted by the contractor at his own cost and only after obtaining necessary approval of the plan for use of sites by the Engineer-in-Charge, the Contractor can use the sites accordingly.

**89 Use of blasting materials:**

Procurement of blasting materials and its storage is the responsibility of the contractor. The contractor shall engage licensed blaster for blasting operation. The contractor is to act in accordance with Indian Explosive Act and other rules prevailing, during the execution of work. It is the responsibility of the contractor to see, that works by other agencies in the vicinity are not hampered, in such cases if any claim is made by other

agencies that should be borne by the contractor. Carriage of blasting materials, from the magazine to the work site, is the responsibility of the contractor.

**90 Equipment:**

- a. The contractor shall have sufficient equipment and labour and shall work such hours and shifts as may be necessary to maintain the progress on the work as per the approval progress schedule. The working and shifts hours shall comply with the Govt. Regulations in force.
- b. It is to expressly and clearly understood that contractor shall make his own arrangements to equip himself with all machinery and special tools and plant for the speedy and proper execution of the work and the department does not undertake responsibility towards their supply.
- c. The department shall supply such of the machinery that may be available on hire basis but their supply cannot be demanded as matter of right and no delay in progress can be attributed to such non-supply of the plant by the department and the department cannot be made liable for any damage to the contractor. The Contractor shall be responsible for safe custody of the departmental machinery supplied to him (which will be delivered to contractor at the machinery yard at site of work) and he has to make good all damages and losses if any other than fire, wear and tear to bring it to the conditions that existed at the time of issue to the contractor before handing over the same to the department. The hire charges for the machinery handed over to the contractor will be recovered at the rate prevalent at the time of supply. The contractor will have to execute supplemental agreement with Executive Engineer at the time of supply of the machinery.
- d. The acceptance of departmental machinery on hire is optional to the contractor.

**91 Steel forms:**

Steel forms should be used for all items involving and use of centering and shuttering shall be single plane without any dents and undulations.

**92 Inconvenience to public:**

The contractor shall not deposit materials at any site, which will cause inconvenience to public. The Engineer-in-Charge may direct the contractor to remove such materials or may undertake the job at the cost of the contractor.

**93 Conflict of interest:**

Any bribe, commission, gift or advantage given, promised or offered by on behalf of contractor or his partner, agent or servant or any one on his behalf to any officer, servant, representatives, agents of Engineer-in-Charge, or any persons on their behalf, in relation to the obtaining or to execution of this, or any other contract with Engineer-in-Charge shall in addition to any criminal liability, which it may occur, subject to the cancellation of this or all other contracts and also to payment of any loss or damage resulting from any such cancellation. Engineer-in-Charge shall then be entitled to deduct the amount, so payable from any money, otherwise due to the contractor under this or any other contract.

**94 Contract documents and materials to be treated as confidential:**

All documents, correspondences, decisions and orders, concerning the contract shall be considered as confidential and/or restricted in nature by the contractor and he shall not divulge or allow access to them by any unauthorised person.

**95 General obligations of Contractor:**

- a. The contractor shall, subject to the provision of the contract and with due care and diligence, execute and maintain the works in accordance with specifications and drawings.
- b. The contractor shall promptly inform the Department and the Engineer-in-Charge of any error, omission, fault and such defect in the design of or specifications for the works which are discovered when reviewing the contract documents or in the process of execution of the works.
- c. If Contractor believes that a decision taken by the Engineer-in-Charge was either outside the authority given to the Engineer-in-Charge by the Contract or that the decision was wrongly taken, the decision shall be referred to the technical expert within 14 days of the notification of the Engineer-in-Charge's decisions.

- d. Pending finalisation of disputes, the contractor shall proceed with execution of work with all due diligence.

**96 Security measures:**

- a) Security requirements for the work shall be in accordance with the Departments general requirements including provisions of this clause and the Contractor shall conform to such requirements and shall be held responsible for the actions of all his staff, employees and the staff and employees of his sub-contractors.
- b) All contractors' employees, representatives and sub-contractor's employees shall wear identifications badges provided by the contractor. Badges shall identify the contractor, showing and employee's number and shall be worn at all times while at the site. Individual labour will not be required to wear identification badges.
- c) All vehicles used by the contractor shall be clearly marked with contractor's name.
- d) The contractor shall be responsible for the security of the works for the duration of the contract and shall provide and maintain continuously adequate security personnel to fulfill these obligations. The requirements of security measures shall include, but not limited to maintenance of order on the site, provision of all lighting, fencing, guard flagmen and all other measures necessary for the protection of the works within the colonies, camps and elsewhere on the site, all materials delivered to the site, all persons employed in connection with the works continuously throughout working and non working period including nights, Sundays and holidays for duration of the contract.
- e) Other contractors working on the site concurrently with the contractor will provide security for their own plant and materials. However, their security provisions shall in no way relieve the contractor of his responsibilities in this respect
- f) Separate payment will not be made for provision of security services.

### **97 Fire fighting measures:**

- a) The contractor shall provide and maintain adequate firefighting equipment and take adequate fire precaution measures for the safety of all personnel and temporary and permanent works and shall take action to prevent damage to destruction by fire of trees shrubs and grasses.
- b) Separate payment will not be made for the provision of fire prevention measures.

### **98 Provisions of Health and Sanitation:**

- a. The contractor shall implement the sanitary and watch and ward rules and regulations for all forces employed under this contract and if the Contractor fails to enforce these rules, the Engineer-in-Charge may enforce them at the expenses of the Contractor.

The contractor's special attention is invited to clause 37, 38, 39 and 51 of the preliminary specification to the A.P.S.S. and he is required to provide at his own expenses the following amenities to the satisfaction of Engineer-in-charge concerned.

- b. **First Aid:** At the work site there shall be maintained in a readily accessible place, first aid appliances and medicine including adequate supply of sterilized dressing and sterilized cotton wool. The appliance shall be kept in good order. They shall be placed under the charge of a responsible person, who shall be readily available during working hours.
- c. **Drinking water:** Water of good quality for drinking purpose shall be provided for the worker on a scale of not less than 2 gallons per head per day.
  - i) Where drinking water is obtained from an intermittent public water supply each work site shall be provided with a storage tank, where such drinking water shall be stored.
  - ii) Every water supply storage shall be at a distance of not less than 10 M. from any latrine drain or other source of pollution where water has to be drained. Any existing well, which is within such proximity of any latrine, drain or other

source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be dust and water proof.

- iii) A reliable pump shall be fitted to each inner well. The trap door shall be kept locked and opened only for inspection or cleaning which shall be done at least once a month.

**d. Washing and bathing place:**

Adequate washing and bathing places shall be provided separately for men and women. Such place shall be kept clean and well drained, bathing or washing should not be allowed in or near any drinking water well.

**e. Latrine and Urinals:**

There shall be provided within the area of every work site latrines and urinals in an accessible place to men and women separately. For each of them shall be on the following scales or the scale as directed by Engineer-in-charge in any particular case.

- |       |   |   |
|-------|---|---|
| (i).  | Where the number of persons employed does not exceed 50                 | 2 |
| (ii)  | Where the number of persons employed exceeds 50 but does not exceed 100 | 3 |
| (iii) | For every additional 100  | 3 |

If women are employed, separate latrines and urinals separated from those for men shall be provided on the same scale.

Except in work site provided with water flushed latrines connected with a water borne sewage systems all latrine shall be cleaned at least four times daily and at least twice during working hours and kept in a strict sanitary condition. The receipt scales shall be tarred inside and outside at least once a year.

The excreta from the latrines shall be disposed of by the Contractor at his own expense in a manner approved by the local public health authority. The Contractor shall also employ an adequate number of scavengers and maintain proper conservancy arrangements to keep the latrines and urinals in a clean and sanitary condition.



**f. Shelters during Rest:**

At the work site there shall be provided free of cost two suitable sheds, one for meals and other for rest for the use of workers.

**g. Creches:**

At every work site at which 50 or more women workers are ordinarily employed there shall be provided two huts of suitable size for use of children under the age of 6 years. One hut shall be used for infants games and other as a bed room. The hut shall be constructed on a standard not lower than the following.

1. Thatched roofs
2. Mud floors and wall
3. Planks spread over the mud floor and covered with matting. The use of huts shall be restricted to children their attendants and mothers of the children.

h. Land should be acquired temporarily for Storing Contractor's materials or for housing their staff.

The contractor should make his own arrangements for temporary acquisition of land required for storing his materials and for the housing of his staff at his own expenses

**99 Training of personnel:**

The contractor, shall, if and as directed by the Engineer-in-Charge provide free of any charge adequate facilities, for vocational training of Departmental Officers, students, Engineers, supervisors, foremen, skilled workmen etc. not exceeding six in number at any one time on the contractor's work. Their salaries, allowances etc. will be borne by the Department and the training schemes will be drawn up by the Engineer-in-Charge in consultation with the contractor.

**100 Ecological balance:**

- a) The contractor shall maintain ecological balance by preventing de-forestation, water pollution and defacing of natural landscape. The contractor shall so conduct his construction operation as to prevent any unnecessary destruction, scarring, or defacing of the natural surroundings in the vicinity of the work. In

respect of the ecological balance, Contractor shall observe the following instructions.

- i) Where unnecessary destruction, scarring, damage or defacing may occur, as result of the operation, the same shall be repaired replanted or otherwise corrected at the contractor's expense. The contractor shall adopt precautions when using explosives, which will prevent scattering of rocks or other debris outside the work area. All work area including borrow areas shall be smoothened and graded in a manner to conform to the natural appearances of the landscape as directed by the Engineer-in-Charge.
- ii) All trees and shrubbery which are not specifically required to be cleared or removed for construction purposes shall be preserved and shall be protected from any damage that may be caused by the contractor's construction operation and equipment. The removal of trees and shrubs will be permitted only after prior approval by the Engineer-in-Charge. Special care shall be exercised where trees or shrubs are exposed to injuries by construction equipment, blasting, excavating, dumping, chemical damage or other operation and the contractor shall adequately protect such trees by use of protective barriers or other methods approval by the Engineer-in-Charge. Trees shall not be used for anchorages. The contractor shall be responsible for injuries to trees and shrubs caused by his operations. The term "injury" shall include, without limitation bruising, scarring, tearing and breaking of roots, trunks or branches. All injured trees and shrubs be restored as nearly as practicable without delay to their original condition at the contractor's expense.
- (iii) The contractor's construction activities shall be performed by methods that will prevent entrance or accidental spillage of solid matter contaminants, debris and other objectionable pollutants and wastage into river. Such pollutant and waste include earth and earth products, garbage, cement concrete, sewage effluent, industrial wastes, radio-active substances, mercury, oil and other petroleum products, aggregate processing, mineral

salts and thermal pollution. Pollutants and wastes shall be disposed off in a manner and at sites approved by the Engineer-in-Charge.

(iv) In conduct of construction activities and operation of equipments the contractor shall utilise such practicable methods and devices as are reasonably available to control, prevent and otherwise minimise the air pollution. The excessive omission of dust in to the atmosphere will not be permitted during the manufacture, handling and storage of concrete aggregates and the contractor shall use such methods and equipment as a necessary for collection and disposal or prevention of dust during this operation. The contractor's methods of storing and handling cement shall also include means of eliminating atmospheric discharges of dust, equipment and vehicles that give objectionable omission of exhaust gases shall not be operated. Burning of materials resulting from clearing of trees, bushes, combustible construction materials and rubbish may be permitted only when atmospheric conditions for burning are considered favourable.

b) Separate payment will not be made for complying with the provisions of this clause and all cost shall be deemed to have been included in the unit rates and prices included in the contract if any provision is not complied with within a reasonable time even after issue of a notice in this respect, the necessary operations would be carried out by the Engineer-in-Charge at the cost of the Contractor, Orders of the Engineer-in-Charge in this respect would be final and binding on the contractor.

#### **101 Preservation of existing vegetation:**

a) The contractor will preserve and protect all existing vegetation such as trees, on or adjacent to the site which do not unreasonably interfere with the construction as may be determined by the Engineer-in-Charge. The contractor will be held responsible for all unauthorized cutting or damage of trees, including damage due to careless operation of equipment, stockpiling of materials or trekking of grass areas by equipment. Care shall be taken by the Contractor in felling trees authorized for removal to avoid any unnecessary damages to vegetation and

treess that are to remain in place and to structures under construction or in existence and to workmen.

- b) All the produce from such cutting of trees by the contractor shall remain the property of Department and shall be properly stacked at site, approved by the Engineer-in-Charge. No payment whatsoever shall be made for such cutting and its stacking by the Contractor. If any produce from such cutting is not handed over to the Department by the contractor, he shall be charged for the same at the rates to be decided by the Engineer-in-Charge. The recovery of this amount shall be made in full from the intermediate bill that follows.
- c) The contractor shall also make arrangements of fuel deposits for supply of required fuel for the labourer to be employed for cooking purpose at his own cost in order to prevent destruction of vegetation growth in the surrounding area of the work site.

**102 Possession prior to completion:**

The Engineer-in-charge shall have the right to take possession of or use any completed part of work or works or any part thereof under construction either temporarily or permanently. Such possession or use shall not be deemed as an acceptance of any work either completed or not completed in accordance with the contract with in the interest of Clause 28 of APSS except where expressly otherwise specified by the Engineer-in-charge.

**103 Payment upon termination:**

If the contract is terminated because of a fundamental breach of contract by the contractor, the Engineer-in-Charge shall issue a certificate for the value of the work done less advance payment received upon the date of the issue of the certificate and less the percentage to apply to the work not completed as indicated in the contract data. Additional liquidated damages shall not apply. If the total amount due to the Department exceeds any payment due to the contractor the difference shall be a debt payable to the Department. In case of default for payment within 28 days from the date of issue of notice to the above

effect, the contractor shall be liable to pay interest at SBI PLR+2% per annum for the period of delay.

#### **104.1 Access to the contractor's books:**

Whenever it is considered necessary by the Engineer-in-Charge to ascertain the actual cost of execution of any particular extra item of work or supply of the plant or material on which advance is to be made or of extra items or claims, he shall direct the contractor to produce the relevant documents such as payrolls, records of personnel, invoices of materials and any or all data relevant to the item or necessary to determine its cost etc., and the contractor shall when so required furnish all information pertaining to the aforesaid items in the mode and manner that may be specified by the Engineer-in-Charge.

**104 Labour Cess:** An amount @ 1% (one percent) will be deducted from the bills payable to the contractor as per the provisions of Building & Other Construction workers (Regulation of employment and conditions of service) Act 1996 and Building & Other construction workers welfare cess act 1996 and the cess rules 1998 of Govt of India and G.O Ms No: 69, dt: 03-12-1999 and G.O.Ms No: 57, dt: 26-06-2007 & G.O.Ms No: 41 dt: 30-04-2007 and G.O.Ms No: 59, dt: 29-06-2007.

#### **105 Drawings to be kept at site:**

One copy of the drawings furnished to the contractor shall be kept by the contractor on the site and the same shall at all reasonable time be available for inspection and use by the Engineer-in-Charge and the Engineer-in-Charge's representative and by any other persons authorized by the Engineer-in-Charge in writing.

#### **106 B.I.S. [I.S.] books, MoRT&H / APSS to be kept at site:**

A complete set of Indian Standard specification, MoRT&H Specification (4<sup>th</sup> revision referred to in "Technical Specifications" and A.P.S.S. shall be kept at site for reference.

**107 Site Order Book:**

An order book shall be kept at the site of the work. As far as possible, all orders regarding the work are to be entered in this book. All entries shall be signed and dated by the Department Officer in direct charge of the work and by the contractor or by his representative. In important cases, the Executive Engineer or the Chief General Manager (T), HGCL will countersign the entries, which have been made. The order book shall not be removed from the work, except with the written permission of the Executive Engineer.

**108 Variations by way of modification, omissions or additions:**

For all modifications, omissions from or additions to the drawings and specifications, the Executive Engineer will issue revised plans, or written instructions, or both and no modification, omission or addition shall be made unless so authorized and directed by the Executive Engineer in writing.

The Executive Engineer shall have the privilege of ordering modifications, omission or additions at any time before the completion of the work and such orders shall not operate to annul those portions of the specifications with which said changes do not conflict.

**Engineer-in-Charge's Decision:**

It shall be accepted as in separable part of the contract that in matters regarding materials, workmanship, removal of improper work, interpretation of the contract drawings and contract specification, mode of the procedure and the carrying out of the work, the decision of the Engineer-in-Charge, which shall be given in writing, shall be binding on the contractor.

**109 Care and diversion of river/stream:**

The contractor shall submit details regarding the diversion and care of river or stream during construction of the work along with a separate print-out of the time table showing earliest and latest start and finish dates of various activities. He should submit a detailed layout plan with drawings for the diversion and care of river during construction of work. The above arrangements shall be at contractor's cost.

## **110 Income tax**

- a) During the currency of the contract deduction of income tax at 2.00% shall be made from the gross value of each bill of the contract, the contract value of which is in excess of Rs.20,000/- for deduction of tax at rates lower than 2.00% procedure stipulated under section 194-C(4) of Income Tax Act, 1961 shall be followed.
- b) Income Tax clearance certificate should be furnished before the payment of final bill.
- c) The contractor's staff, personnel and labour will be liable to pay personnel income taxes in respect of their salaries and wages as are chargeable under the laws and regulations for the time being in force, and the contractor shall perform such duties in regard to such deductions thereof as may be imposed on him by such laws and regulations.

## **111 Seigniorage charges:16, I & C(M1) Dept., Dt.16.03.2016**

- 112.1 Seigniorage charges will be recovered as per rules from the work bills of the contract or based on the theoretical requirement materials at the following rates. The seigniorage component is separated and shown in Part – B of the schedule.

<b>S. No.</b>	<b>Material</b>	<b>Seigniorage</b>
1.	Sand	Rs: 40.00 / Cum
2.	Metal	Rs: 75.00 / Cum
3.	R.R stone for masonry	Rs: 75.00 / Cum
4.	C.R.S stone	Rs: 75.00 / Cum
5.	Gravel./ Earth	Rs: 30.00 / Cum

- 112.2 The rates are liable to be revised and amended from time to time by the State Government, by notification in the 'Telangana Gazettee'. If the revised seigniorage fee is more than the above mentioned, will be revised as per revised rates,

## **112 Value Added Tax (VAT):Deleted**

GST @ 18% will be applicable as per Circular Memo No.1823205-A/231/A1/WP/2022, Dt:29.12.2022.

### **113 Supply of construction materials:**

- i) The contractor has to make his own arrangements for procurements, supply and use of construction materials.
  - ii) All materials so procured should confirm to the relevant specifications indicated in the bidding documents.
  - iii) The contractor shall follow all regulations of the Department/Government of India in respect of import licenses etc., of the procurement of the materials is through imports and he shall be responsible for the payment of applicable duties and taxes, port clearances, inland transportation etc.
  - iv) The contractor shall make his own arrangements for adequate storage of the materials.
- a. The contractor shall purchase Bitumen / Emulsion only from the reputed firm i.e., HPCL, BPCL and IOCL. They shall not be permitted to use CRMB bought from private manufactures
  - b. The contractors shall procure original bills towards purchase of bitumen / emulsion while submitting the bills for payment.

Deputy General Manager (HGCL) Concerned should endorse the name of work on the bills / vouchers / invoices for which the bitumen / emulsion is utilized to avoid reuse of bills on other works.

The contractors shall order and procure the bitumen / emulsion work wise so that the contractor obtain invoice / bills work wise and submit the same to the Deputy General Manager (HGCL) concerned while preparing the bills.
  - c. The contractor shall procure the following quality control equipment, which is required for day-to-day laboratory tests and also to procure any other equipment, which is essential during the work period.



## **APPENDIX-I**

### **Operation and Maintenance Service Levels**

#### **BACKGROUND INFORMATION & STATUS.**

The Hyderabad Growth Corridor Ltd., (HGCL) has taken up the Outer Ring Road Project as an 8-lane access controlled Express way, designed for a speed of 120 kmph, approximately of 158 Km in length. It connects Patancheru – Shamshabad – Pedda Amberpet – Ghatkesar – Shamirpet – Medchal – Patancheru provide in connectivity to the existing and proposed Major Growth centers and linking all the State and National Highways passing through Hyderabad. In addition 2-lane service roads are also present on either side of the Main Carriage Way.

The Entry and Exit to the 8-lane Main Carriage Way of Outer Ring Road is through different types of Interchanges of 22 Nos. The types of interchanges are Rotary type, Diamond type, partial clover leaf type, Double trumpet type and two wheelers and three wheelers are not allowed on to ORR Main Carriageway.

The installation of comprehensive CCTV surveillance system across 67 identified underpasses within the Outer Ring Road (ORR) limits falling under the jurisdiction of the Cyberabad Police Commissionerate (locations enclosed as per reference) considering the prevailing law-and-order situation and with the objective of enhancing public safety, deterring criminal activities, and preventing untoward incidents, especially during nighttimes.

The Cyberabad region is of strategic importance, being one of the fastest-developing areas in Asia and hosting critical infrastructure including national institutions, premier academic establishments, and major multinational corporations such as Facebook, Google, IBM, and Microsoft. Due to rapid urbanization and increased vehicular and pedestrian movement along the ORR, particularly through isolated and inadequately lit underpasses, there has been a rise in security and safety concerns. Incidents of robberies, snatching, and unauthorized gatherings have been reported at multiple locations, underscoring the urgent need for a robust surveillance and lighting system. Accordingly, a state-of-the-art CCTV surveillance and allied infrastructure facility at these underpasses to strengthen security and ensure safe passage for road users.

**1. The selected Contractor/Agency shall be responsible for:**

- Continuous operation, upkeep, and maintenance of CCTV surveillance systems installed at all underpasses along the ORR.
- Providing skilled manpower for round-the-clock monitoring, fault rectification, and reporting.
- Ensuring equipment performance as per OEM specifications.
- Maintaining service levels as stipulated under this contract.

**2. Equipment Covered**

- Fixed CCTV cameras
- PTZ (Pan-Tilt-Zoom) cameras
- Storage Server, VMS Server, Management Server, Network Switch, Network Switch with minimum 30 to 90 days backup
- Power Supply Units, UPS systems
- Communication/networking equipment (switches, routers, cabling)
- Video Wall/Monitoring Consoles, Workstations,
- Optical Fiber Cable
- Any other associated hardware or software provided under the project

**3. Manpower Requirement**

- Deployment of trained and certified personnel for:
  - Control Room Operations: Minimum 2 operators per shift (24×7).
  - Field Technicians: At least 1 technician per 15 underpasses for preventive and breakdown maintenance.
- Personnel shall be experienced in CCTV operations, networking, and troubleshooting.
- The contractor shall maintain a roster and ensure 100% attendance.

**4. Operation & Maintenance Activities**

**i. . General Responsibilities:**

- Provide 24×7 monitoring and fault rectification services for all CCTV equipment and network infrastructure.
- Maintain up-to-date asset registers, location maps, and cable route diagrams.
- Ensure minimum downtime as per Service Level Agreements (SLA) defined below.

- Supply all required tools, testing equipment, and consumables for maintenance and repair activities.
- Provide trained and certified manpower (engineers, technicians) during the O&M period.

**ii. Transportation:**

- The contractor shall arrange safe and secure transportation at their own cost for inspection for defective equipment at site and transport the damaged equipment to OEM service centres or the contractor's workshop for repair/replacement etc.,
- Ensure timely return and reinstallation after repair, minimizing system downtime.
- Provide logistics support for movement of spares, cables, and tools including manpower across all project locations.

**iii. Repair and Replacement:**

- Attend all reported faults within the response time mentioned in the SLA.
- Carry out repairs at site wherever feasible; otherwise, dismantle and transport the equipment to a designated repair facility.
- Supply OEM-certified spare parts and consumables; no refurbished parts are allowed unless pre-approved.
- Maintain a spares inventory for critical items such as cameras, SFP modules, and media converters to ensure continuity of service.

**iv. Splicing and Cable Work**

- Perform fiber optic cable splicing for breakages, diversions, or extensions using fusion splicing equipment conforming to industry standards.
- Test the repaired section using OTDR (Optical Time Domain Reflectometer) and submit test reports.
- Maintain proper cable labelling and documentation after splicing or rerouting.
- Provide trenching, reinstatement, and duct repair work wherever necessary to restore connectivity.

**v. Preventive Maintenance:**

- Conduct quarterly preventive maintenance of all cameras, network devices, and power systems, including:

- Cleaning lenses and housings.
- Checking pole stability, junction boxes, and weatherproofing.
- Testing power supplies, UPS backup, and earthing.
- Verifying camera focus, presets, and PTZ functionality.
- Firmware/software updates.
- Submit Preventive Maintenance Reports (PMRs) after each cycle.

**vi. Corrective Maintenance:**

- Immediate response to system malfunctions or breakdowns.
- Temporary workarounds to restore functionality if permanent repair requires more time.
- Maintain a fault register with ticket numbers, resolution dates, and downtime details.

**vii. Documentation and Reporting:**

- Maintain an online fault management system (or excel-based tracker if offline).
- Submit monthly O&M reports including:
  - Uptime/downtime statistics per camera/device.
  - Details of repairs, splicing works, and equipment replaced.
  - Inventory of spares used and replenished.
  - Submission of Quarterly Progress Report

**viii. Training:**

- Provide periodic training to client staff on basic troubleshooting, monitoring software, and escalation procedures.

**5. Service Level Agreements (SLAs):**

Parameter	Service Level	Penalty for Non-compliance
<b>System Uptime (per camera)</b>	≥ 98% per month	0.5% of monthly payment per 1% shortfall in uptime
<b>Fault Rectification Time (Major)</b>	Within 4 hours (urban) / 6 hours (remote)	Rs. 2,000/- per hour of delay
<b>Fault Rectification Time (Minor)</b>	Within 12 hours	Rs.500/- per hour of delay
<b>Preventive Maintenance</b>	Once every 30 days per site	Rs. 5,000/- per missed schedule
<b>Manpower Availability</b>	100% as per approved roster	Deduction at actual wages + 10% per absence

## **6. Spare Parts & Consumables**

- The contractor shall stock sufficient spare parts and consumables at a central store within the ORR vicinity to ensure prompt replacement.
- All replacement parts must be genuine OEM-approved items.

## **7. Tools & Testing Equipment**

- The contractor shall provide necessary tools, testing devices and safety equipment for maintenance and troubleshooting.

## **8. Security & Confidentiality**

- Contractor staff shall maintain confidentiality of surveillance footage and system architecture.
- Unauthorized sharing or copying of data is strictly prohibited and will attract penalties and termination of contract.

## **9. Training & Skill Up gradation**

- Contractor shall provide periodic training to operators and maintenance staff, at least once every 6 months.
- Updated manuals/SOPs to be maintained at the control room.

## **10. Performance Reviews**

- Monthly review meetings with the Employer/Engineer-in-Charge to assess performance against SLAs.
- Persistent non-compliance may lead to penalties, withholding of payments, or termination.

## **TECHNICAL SPECIFICATIONS**

1. The Contractor shall provide a turnkey solution encompassing the “Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad” for the designated sites. The purpose of the system is to ensure continuous, high-fidelity monitoring of critical infrastructure areas—including tunnels, subways, underpasses, road approaches, pedestrian zones, and other vulnerable locations—to detect, deter and document illegal or suspicious activities, especially during night-time hours. The solution shall be robust, scalable, secure, and compliant with applicable technical and safety standards, providing end-to-end situational awareness to the Command and Control Centre. This Scope of Work has been modelled on established CCTV system RFPs and adapted to include the specific hardware, network, power, mounting, monitoring, and support items listed in the tender.

### **2. System Design and Engineering**

The Contractor shall conduct a detailed site survey and threat/vulnerability assessment to finalize camera locations, network routes, power requirements, and physical infrastructure needs. Based on this, the Contractor shall prepare and submit a comprehensive system design including schematics, network topology, integration points, and redundancy plans. The design shall specify deployment of 4 MP IP IR Outdoor Bullet Cameras with motorized varifocal lenses and SD card slots and 2 MP Outdoor PTZ Cameras with motorized varifocal lenses and SD card slots, both STQC-certified or equivalent, ensuring adequate coverage, pan/tilt/zoom capability, low-light performance, and edge recording with 128 GB SD memory cards to provide localized buffering in case of network disruption. The design shall incorporate intelligent placement to minimize blind spots, account for environmental conditions (dust, vibration, humidity), and ensure vandal resistance.

### **3. Supply of Equipment**

The Contractor shall procure and deliver all equipment, which shall include but not be limited to: high-definition IP cameras (bullet and PTZ), 128 GB SD cards, Server, 10 TB surveillance-grade HDDs for centralized storage, network switching infrastructure

including 8 Port UTP + 2 Port Fiber Full PoE Layer 2 Manageable Switches, 24 Port PoE switches, optical modules (2-port Mini GBIC/SFP modules for 1–10 km and 10 Giga/SFP modules for 10–30 km), fiber optic pigtails, single mode 24-core fiber cables, and all required power conditioning devices such as UPS 1 KVA with 2-hour backup at full load, 10 KA power surge protectors, 4-port spikes, and 5 AMP MCBs. All components must be new, from approved vendors, and accompanied by manufacturer warranties.

#### **4. Network and Power Infrastructure**

The Contractor shall build a resilient network backbone to support uninterrupted, high-bandwidth video traffic. This includes deployment of Cat6 STP cables, properly spliced and terminated using certified splicing techniques and housed in fiber termination boxes. All fiber runs shall be routed through protective HDPE duct pipes, HDPE L-bends, and jointer pipes, with appropriate messenger wire for aerial support where required. Outdoor network and PoE switches will be installed in suitable outdoor junction boxes or PVC enclosures to safeguard against environmental exposure. The Contractor shall implement proper grounding, surge protection, and power distribution using armoured 3-core cables, flexible 2c x 1.5 sq.mm cables, and ensure distribution to all deployed devices. Redundant power via UPS systems shall be provisioned so that full operation continues for at least two hours during mains failure.

The Optical Fiber Cable (OFC) shall be Single Mode, 24 Core, Armored, Loose Tube Type, suitable for installation through HDPE ducts along the project corridor. The cable shall conform to the relevant international standards and be designed for long-distance, high-bandwidth data transmission to support surveillance, communication, and control systems.

**Note:** The Hyderabad Growth Corridor Limited (HGCL) shall have the right to utilize the balance (spare) fiber cores for other departmental projects or communication requirements as deemed necessary.

#### **5. Civil and Structural Works**

The Contractor shall undertake all civil and structural works necessary for stable and durable installation of surveillance infrastructure. This includes the erection of 6-

meter hot-dip galvanized poles with foundations, including specialized poles for PTZ cameras, installation of 1.5 m MS galvanized cantilevers, and mounting assemblies using camera mounting brackets (1–3 feet). All mounting hardware shall ensure correct orientation, minimize vibration, and provide theft/tamper resistance. Installation of IR illuminators and their mounting grills shall be done to augment low-light coverage, ensuring the surveillance system captures usable imagery at night or in poorly lit areas.

## **6. Installation, Integration & Configuration**

The Contractor shall carry out the physical installation of all cameras, networking equipment, storage, power systems, and monitoring workstations. Installation includes precise positioning of cameras, routing and securing of cables, commissioning of switch fabrics (PoE and fiber), integration of Video Management Software (VMS) with the Command Control Centre, and configuration of recording, alerting, user roles, and retention policies. All devices shall be logically and securely grouped, with access control and audit trails enabled in the VMS. HDMI connectivity, using 15-meter 1080p HDMI cables, shall be provided between monitoring workstations and display units. The monitoring center shall be provisioned with professional 24x7-rated 55" monitors and a high-performance desktop (Intel i7 Processor, 1 TB HDD, 16 GB RAM, dedicated graphics card) optimized for VMS operations. Equipment rack mounting (42U network rack) shall be neatly organized with cable management.

All CCTV cameras installed under the project shall be integrated with the MTCC at Nanakramguda, the Command Control Centre at Cyberabad Police Commissionerate, the Telangana Integrated Command and Control Centre (TGiCCC) at Banjara Hills, and, where required, with the respective local police stations.

## **7. Testing and Commissioning**

The Contractor shall perform comprehensive pre-commissioning and commissioning tests, including but not limited to verification of camera coverage, image quality (day/night), PTZ responsiveness, edge and central recording integrity, failover resilience, network latency, surge protection effectiveness, and storage retrieval. Detailed Site Acceptance Testing (SAT) shall be conducted in the presence of the



Employer's representatives, and all outcomes documented in a commissioning report. Any issues identified during testing must be rectified before formal acceptance.

#### **8. Command& Control System**

The Contractor shall enable centralized monitoring by configuring the VMS for real-time display, event alerting, archival retrieval, intelligent search, and multi-user secure access. The system must support integration with external systems (e.g., alerting, public announcement, access control) as required. The Command Control Centre shall be capable of viewing all camera feeds simultaneously, with the facility to drill down on events and export evidentiary video. All video data in transit and at rest shall be secured to prevent unauthorized access or tampering.

#### **9. Training and Documentation**

The Contractor shall provide detailed training for operations and maintenance personnel. Training shall cover camera operation (including PTZ control), VMS usage, evidence extraction, routine diagnostics, backup restoration, and emergency procedures. The Contractor shall deliver complete documentation including as-built drawings, system architecture diagrams, configuration backups, user manuals, maintenance schedules, warranty certificates, and a detailed preventive maintenance plan.

#### **10. Operation and Maintenance**

Upon completion and commissioning of the system, the Contractor shall provide comprehensive Operation and Maintenance (O&M) services as per the defined Service Level Agreement (SLA). The scope shall include scheduled preventive maintenance, prompt rectification of faults, and replacement of defective components, with adequate critical spares maintained locally to ensure minimal downtime. The Contractor shall also be responsible for implementing all necessary software updates, system tuning, and submission of periodic performance and maintenance reports.

A dedicated technical team comprising a minimum of four qualified engineers, as specified, shall be deployed to ensure uninterrupted system functionality, availability, and reliability throughout the warranty and support period/O&M period.

Note: HGCL shall not be held responsible for any theft, loss, or damage to the installed equipment/cables/duct etc., due to accidents or other causes. The Contractor

shall replace or restore such damaged or stolen equipment at their own cost, in accordance with the terms of the SLA.

### **11. Security, Compliance, and Data Handling**

All system implementation shall comply with applicable statutory regulations, data privacy norms, and standard security practices. CCTV data shall be classified, stored, and accessed according to predefined policies; any reproduction or external sharing of footage requires prior authorization. The Contractor shall ensure that personnel involved in the project undergo necessary background verification and adhere to confidentiality and non-disclosure obligations. All electrical and installation work must comply with relevant codes and standards to ensure safety in public and high-traffic environments.

### **12. Warranty and Guarantees**

The Contractor shall provide manufacturer and project warranties for all supplied equipment—covering cameras, storage, network devices, power systems, and software—for a minimum period as specified in the RFP, with clear terms for repair, replacement, and support. Performance guarantees shall be furnished as required to ensure system uptime and quality of service.

## **13. MINIMUM TECHNICAL SPECIFICATIONS**

### **STQC Certification Requirement**

1. **Mandatory Certification:** All CCTV cameras, associated hardware, and related software proposed under this tender shall be certified by the Standardization Testing and Quality Certification (STQC) Directorate, Government of India, as mandated under prevailing guidelines.
2. **Scope of Certification:** STQC certification shall cover, inter alia:
  - **Cybersecurity and Data Protection:** Compliance with encryption standards, secure communication protocols, and protection from unauthorized access.
  - **Physical Robustness:** Weather, vandal, and tamper resistance suitable for outdoor installation.
  - **Interoperability:** Conformity with open standards and seamless integration with existing surveillance infrastructure.

- **Essential Requirements Compliance:** All other requirements specified under the Government of India notifications for surveillance equipment.

**3. Submission of Certificates:**

- The Bidder shall submit valid STQC certification for each make/model of CCTV cameras offered as part of the technical bid.
- Certificates must be current and verifiable through STQC/MeitY.

**4. Ongoing Compliance:**

- Any replacement or additional equipment supplied during the contract period shall also comply with the above certification requirements.

The contractor shall maintain records and make them available for audit by the Employer or its authorized agency at any time

**14. Scalability:**

All CCTV cameras and associated infrastructure to be provided by the contractor shall be designed and installed with a provision for upgradation to Automatic Number Plate Recognition (ANPR) technology, including sufficient hardware capacity, software compatibility, and network bandwidth to support the future implementation without major alterations.

**Following are the minimum Technical Requirements:**

**1. Technical Specifications of 4 MP IP IR Outdoor Bullet Camera with Motorized Varifocal lens with SD Card**

S No	Features	Description
1	Camera Type	4MP Varifocal Bullet Network Camera
2	Image Sensor	1/3-inch CMOS or better
3	Resolution	Min. 2688 x 1520 at 25/30 fps
4	Video Compression	H.265,H.264,H.265+,H.264+
5	Audio Compression	G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC, should support Environment Noise Filtering
6	Streaming	Min. Four compressed stream (Individually Configurable)
7	ID/Password	Multi-level user ID/Password
8	Simultaneous Live View	Up to 6 channels
9	Physical Layer	1 RJ45 10M/100M self-adaptive Ethernet port
10	Security	Password protection, IP address filter, HTTPS encryption, TLS 1.1/1.2/1.3, WSSE and digest authentication for ONVIF
11	Protocol	TCP/IP, HTTP, HTTPS, DHCP, DNS, DDNS, RTSP, RTCP, NTP, UPnP, SMTP, QoS, IPv4, IPv6, UDP, Bonjour, PPPoE, SNMP
12	Lens Type	Motorized lens, 2.7 to 13.5 mm
13	Alarm	1 inputs, 1 output
14	Audio	1 inputs, 1 output
15	Build-in Microphone	Support
16	Image Enhancement	BLC, 3D DNR,HLC
17	Signal-to-Noise Ratio	≥52dB
18	Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
19	Illumination	Colour: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
20	IR Range	Up to 60 mtrs. or better
21	Privacy Mask	8 programmable polygon privacy masks
22	Electronic Shutter	1/3 s to 1/100,000 s
23	Region of Interest	Min 5 regions
24	White Light	Up to 60 mtrs. or better
25	Wide Dynamic Range	120dB
26	ONVIF	Profile S, G supported
27	Day and Night	Day, Night, Auto, Schedule
28	Edge Storage	Built-in memory card slot up to 512 GB
29	Edge based video content Analytics	Line crossing detection, Intrusion detection, Motion Detection, Video tampering, region entrance, region exit, Unattended baggage detection, object removal detection, loitering detection, people gathering detection, fast moving detection, parking detection,

S No	Features	Description
		video quality detection, heartbeat, mirror, pixel counter.
30	Linkage	Upload to FTP/NAS/Memory Card, notify surveillance center, send email, trigger recording, trigger capture.
31	Face capture	Yes
32	Operating Temperature	-30 °C to +60 °C
33	Humidity 95% or less (non-condensing)	
34	Housing	IP67
35	Power Source	12 VDC, PoE: 802.3at/af
36	Certification	CE/FCC/BIS & STQC

**2. PTZ Camera: Technical Specifications of 2MP Outdoor PTZ Camera with Motorized Varifocal lens with SD Card slot,**

S No	Features	Description
1	Camera Type	PTZ Camera
2	Image Sensor	1/2.8 inch CMOS or better
3	Resolution	2 MP at 25 FPS or better
4	Video Compression	H.265 or better
5	Audio Compression	G.711, G.722.1, G.726, MP2L2
6	Streaming	Min. Three compressed stream (Individually Configurable) & each stream support Min. 25fps
7	Security	IP Address filtering, Watermark, HTTPS encryption
8	Simultaneous Live View	Up to 20 channels
9	User	Up to 32 users
10	Optical Zoom	32 × Optical
11	Focus	Auto
12	Digital Zoom	16x
13	Pan & Tilt Range	360° endless, -15° ~ 90°(auto-flip)
14	Pan & Tilt Speed	Pan Manual Speed: 0.1° - 160°/s,
		Pan Preset Speed: 240°/s
		Tilt Manual Speed: 0.1° ~ 120°/s
		Tilt Preset Speed: 200°/s
15	Scan	8 patrols, Min. 32 Presets in each patrol & 4 pattern
16	Number of Preset	Min. 300
17	Dynamic Noise Reduction	3D DNR
18	Illumination	Colour: 0.005 Lux at F1.6, , B/W: 0.001 Lux at F1.6, 0 Lux with IR
19	IR Range	Smart IR 150m or better
20	Edge Storage	MicroSD/microSDHC/microSDXC slot supporting memory card for min. 256 GB. In the event of failure of connectivity to the network storage the camera shall record video

S No	Features	Description
		locally on the SD card automatically. After the connectivity is restored these recordings shall be automatically pulled by the network storage recorder such that no manual intervention is required to transfer the SD card based recordings to network storage.
21	Auto Gain Control	Support
22	Back Light Compensation	Support
23	High Light Compensation	Support
24	Region Of Interest	Support
25	Electronic Shutter	1 sec ~1/30,000 sec, slow shutter
26	White Balance	Auto
27	Wide Dynamic Range	120 dB Support
28	S/N Ratio	> 52dB
29	Privacy Mask	24 privacy masks programmable
30	Edge based video content Analytics	Line crossing detection, Intrusion detection, Unattended baggage detection, Object removal detection, Audio exception detection, Region entrance detection, Region exiting detection
31	Smart Tracking	Manual tracking, Auto-tracking
32	Day and Night	Support ICR
33	Audio Interface	1 input, 1 output
34	Alarm Interface	2 input, 1 output
35	Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
36	Protection Level	IP66/IP67
37	Anti-Vandalism rating	IK10 (Excluding glass window)
38	Mounting Bracket	Wall/Pole Mount
39	Operating Temperature & Humidity	-30°C to 60°C Humidity 90% or less (non-condensing)
40	Power Supply	Hi-PoE & 24 VAC / 36VDC
41	Certification	CE/FCC/BIS & STQC

### 3. Switches: Technical Specifications of 8 Port 10/100/1000 Mbps POE, 2 Giga SFP Ports Managed Layer2 Switches

S No	Features	Description
1	Ports	8 x 10/100/1000Base-TX PoE/PoE+ capable ports
2		2 x 1000Base SFP or 1000Base-T Combo ports
3		1 x RJ-45 Console Port (RS-232)
4	PoE Standards	IEEE 802.3af/at compliant (PoE/PoE+)
5	PoE Power per Port	Up to 30W
6	Total PoE Budget	240W
7	Switching Capacity	20 Gbps
8	MAC Address Table Size	8K
9	Forwarding Rate	148,800 pps for 100M ports
10		1,488,000 pps for 1000M ports

S No	Features	Description
11	Jumbo Frame Support	Up to 9216 bytes
12	VLAN Support	IEEE 802.1Q VLAN, Port-based VLAN, Voice VLAN, Q-in-Q VLAN
13	Redundancy	Dual redundant DC power supply inputs
14	Environmental Ratings	IP-30 rated metal enclosure
15	Operating Temperature	-40°C to 75°C
16	Storage Temperature	-40°C to 85°C
17	Humidity	5% to 95% non-condensing
18	Mounting	DIN rail mounting
19	Dimensions (W x H x L)	62mm x 135mm x 130mm
20	Certifications	UL/IEC/EN 60950-1, CE, FCC, RoHS
21	Shock and Vibration	Shock IEC 60068-2-27, Vibration IEC 60068-2-6, Drop IEC 60068-2-32
22	Network Features	Link aggregation (802.3ad), Loop protection, UDLD, IGMP v1/v2/v3 Snooping, MLD v1/v2 Snooping
23	Management	Web GUI, CLI (Console/Telnet/SSH), SNMP v1/v2c/v3, RMON, Syslog, LLDP/LLDP-MED, sFlow
24	Security	802.1x, RADIUS, TACACS+, DHCP Snooping, MAC Filtering, Dynamic ARP Inspection
25	Power Consumption	Approx. 10W (no PoE load)

#### 4. Switches: Technical Specifications of 24 port PoE

S No	Features	Description
1	Port Configuration	24 x 10/100/1000 Mbps Ethernet PoE+ ports
2		4 x 10 Gigabit SFP+ uplink ports
3	PoE Total Budget	370 Watts
4	PoE Standards	Ports 1-4: IEEE 802.3at (PoE+ up to 30W)
5		Ports 5-24: IEEE 802.3af (up to 15.4W)
6	Switching Capacity	56 Gbps
7	Forwarding Rate	41.7 Mpps (Million packets per second)
8	Packet Buffer Size	1.5MB
9	Packet Forwarding Method	Store-and-forward
10	Network Protocols	TCP/IP
11	Layer 3 Features	Static routing, RIP, RIPng, OSPF, OSPFv3
12	Virtual Switch Stacking	Supports stacking up to 12 units
13	QoS Features	Comprehensive QoS support for VoIP, video conferencing, IPTV
14	Energy Saving Technology	D-Link Green 3.0, IEEE 802.3az Energy Efficient Ethernet
15	Power Supply Input	100-240 VAC internal universal power supply
16	Maximum Power Consumption	Approx. 22.45 W
17	Standby Power Consumption	6.49 W (100V), 6.55 W (240V)

S No	Features	Description
18	Heat Dissipation	Approx. 59.09 BTU/hr (100V), 57.79 BTU/hr (240V)
19	Operating Temperature	0°C to 40°C (some docs mention -5°C to 50°C)
20	Storage Temperature	-20°C to 70°C
21	Operating Humidity	0% to 95% non-condensing
22	Storage Humidity	0% to 95% non-condensing
23	Operating Altitude	Up to 1,500 meters
24	Dimensions (L x W x H)	440 x 140 x 44 mm (17.32" x 5.51" x 1.73")
25	Weight	Approx. 3.9 kg
26	Acoustic Noise	0 dB (fanless design)
27	CPU	500 MHz
28	RAM	DDR3 128MB
29	Flash Memory	32 MB
30	Diagnostics LEDs	Link/Activity/Speed, Power Fail/Power OK per PoE port
31	Security Features	802.1x authentication, RADIUS, TACACS+, DHCP Snooping, MAC Filtering, Dynamic ARP Inspection

#### 5. SFP Modules : Technical Specifications of SFP Modules

S No	Features	Description
1	Type	10G Base LR (SM) Transceiver Interoperable with IEEE-Compliant 10GBASE Interfaces
2	Form Factor	SFP+, Duplex LC Connectors, Hot Pluggable
3	Standard Compliance	IEEE-802.3ae compliant RoHS Compliant
4	Distance	Upto 10Km
5	Operating Temperature	upto 70°C or better
6	OEM	All Switches and Modules from Same OEM for better interoperability

#### 6. UPS: Technical Specifications of UPS 1 KVA with 2 hour backup on full load

S No	Features	Description
1	Capacity	1KVA
2	Technology	PWM IGBT with APFC
A	AC INPUT	
1	Voltage	170-280 @100% load
2	Frequency	(50+/- 5) Hz
3	Power Factor	≥0.95
B	AC OUTPUT	
1	Voltage	220/230/240VAC
2	Regulation	+ / -1% nominal
3	Frequency	50/60 Hz +/- 3 Hz user adjustable +/- 0.1
4	Load Power Factor	Unity
5	Waveform	Sine Wave
6	Total Harmonic distortion	≤2% , Linear load ; ≤ 5% non-linear load according to IEC62040-3
7	Audible noise	Less than 55 Db



S No	Features	Description
8	Transient response	Less than 20 msec
9	Transient recovery	Up to + / -1% of nominal voltage within 20 m. sec.
10	Over load	150% of rated load for 30 msec.
		125% of rated load for 10 Min
		110% of rated load for 1 min
11	Efficiency	Max 96%
12	Transfer Time	0ms.
13	Compatible with High Crest Factor Loads	3:1
C	BYPASS	
1	Static Switch	Static bypass.
D	PROTECTION & CONTROL	
1	Protection	Input under, Output under, Output overload
2	ALARMS	Mains failure
		Battery low
		UPS trip
		Inverter overload
3	METERING	One digital metre showing the following through a selection mode controller push button
		Input voltage & current
		Input frequency
		Output voltage & Current
		Output frequency
4	ENVIRONMENT	Ambient temperature - 0 to 45 degree centigrade
		Operating 10 deg. C to 45 deg. C
		Storage -20 deg. C to 55 deg. C
		Humidity up to 95% (non-condensing)
5	COOLING	Forced Air cooling
6	ENCLOSURE	IP 21, Free-standing floor mounted design
7	COMPUTER INTERFACE	Interface Port Standard :- RS 232 port with optional:- SNMP
8	Certificate	BIS, ISO 9001, ISO 14001, ISO 45001, ISO 50001, ISO 20001, ISO 27001, TL9000, REACH , CE, FCC & RoHS
E	Warranty period: 2 years for UPS and on batteries	
F	Battery	Type SMF / Lithium
2	Backup	2 Hrs

## 7. Video Management Software (VMS)

Sl. No	Technical Specifications
1	Video Management Software should allow Live Viewing, Recording and Management solution of Video surveillance systems & should not have any Limit on the Number of Cameras to be Connected & should be Scalable to Unlimited IP Cameras in Future by Augmentation of Camera channel Licenses & server Hardware Components.

Sl. No	Technical Specifications
2	Video Management Software should be Brand Agnostic, should not be from the same Camera OEM & should support various third Party ONVIF IP Cameras, this is Compulsorily required so that the Same VMS Software can be scaled up in future by just Adding third Party IP Cameras & Additional Software/Hardware Licenses.
3	VMS should be Client-Server based IP Video security solution that should provide seamless management of Digital Video, Audio and data across an IP network. Video Management Software should provide full virtual matrix switching and control capability. Video from sites should be possible to view from single or numerous workstations simultaneously at any time. Cameras, recorders, and viewing stations may be placed across the terminal in the IP network.
4	VMS OEM should be an ONVIF full member and software should be ONVIF S, G, M & T Profile Compliant. Membership and Conformant details should be available on ONVIF official website.
5	Video Management Software should be Licensed & Perpetual Licenses to be Provided, such that they are Valid for Lifetime.
6	VMS Software should support latest Windows Operating System.
7	VMS should support iPad, Android and iPhone devices & should also support web clients.
8	VMS should be a fully distributed solution, designed for limitless multi-site and multiple server installations requiring 24/7 surveillance with support for devices from different vendors. Video Management Software should offer centralized management of all devices, servers and users and should empower a flexible rule-based system driven by schedules and events.
9	VMS should be a scalable client – server architecture built using well known operating systems
10	VMS Management server should be able to intelligently scan an IP network for new devices (cameras or servers) along with automatic model detection.
11	VMS should provide an integrated secure, scalable and easily accessible software-based solution for the management of the existing & future physical security infrastructure
12	Video Management Software should support integration with Access Control system in a single client interface. Live CCTV video showing the Alarm triggered location shall pop up on the client interface.
13	VMS should provide a powerful and efficient management interface for all the security systems across all monitored sites.
14	VMS should contain recording servers used for recording video feeds and for communicating with cameras and other devices. The recording servers should process the recordings and playback the video streams.
15	VMS should allow access to a system manager in the form of Configuration Client from where the administrator can configure and manage all servers, cameras and users.
16	VMS should allow an unlimited number of cameras to be connected to each recording server and an unlimited number of recording servers to be connected to each management server across multiple sites, if required.

<b>Sl. No</b>	<b>Technical Specifications</b>
17	Management Services of Video Management Software should come as one unit and not multiple loadable units on Multiple Individually Configurable Servers, the Management Server should be loaded on a Single Machine, from which all the Cameras, Additional Recording Servers & Viewing Clients, should be managed Centrally.
18	Video Management Software should be capable of managing multiple recording manager systems.
19	It should be possible to assign encoders and IP cameras to recording manager/Server
20	Video Management Software should be based on a true open architecture that should allow the use of non-proprietary workstation and server hardware, non-proprietary network infrastructure and non-proprietary storage.
21	Recording Parameters
22	Support H.265+, H265, H.264, MPEG4 or MJPEG video recording at minimum 5 fps to 30 FPS at minimum CIF to Full HD (1080p) and 4K resolution.
23	Supports RTP over UDP, RTP over TCP and http streaming
24	Support multiple brand Server, IP cameras and encoders through API/SDK level integration
25	Should support dual streaming, with Streaming and recording at different qualities of videos. (Min. different Streams should be available in the Cameras.)
26	VMS should have option to do recordings on NAS, SAN, Cloud Storage, iSCSi, DAS, local or network drive. Defining different drive for each individual camera.
27	Should Support ability record audio along with video in same recording file.
28	Should support video recording at low frame(I-frame) and high frame rate on Motion
29	Support to export the desired portion of video in mp4, avi and asf formats in DVD/USB or any external device. Viewing of this recording should be playable on authorized player which should be provided by software manufacturer or in media player on OS Windows, Linux/Unix or Apple Mac.
30	Export recording possible in client and remote PC also with proper authentication.
31	Fault Tolerant Architecture and Failover/Redundancy
32	The software should be capable of running a pair of similarly configured VMS Servers in a hot backup configuration i.e., active – passive or active – active.
33	The failover for these Servers should be seamless and should not affect recording of cameras.
	Video Management Software should support native Fail over with in the application with no dependency on any external application for both hardware and application redundancy. Solutions with external clustering like Windows Clustering, Microsoft SQL Clustering and VMware or Hyper-V etc. should not be proposed. The native failover architecture should be for both management and recording servers.
34	The Fail over and Fall-back management and recording Server should be on hot standby, ready to take over during the primary management server fails. No

Sl. No	Technical Specifications
	manual action from the user should be required. The fail over time should not be beyond 30 Seconds.
35	Live, Playback & PTZ Control Parameters
36	Live View possible for minimum 110 cameras simultaneously on 1 screen or multiple monitors using software video wall.
37	Configurable Matrix views with size and number of cameras. Pre-defined views from full screen, 1x1 to 10x10.
38	View sequencing with user driven time interval.
39	Dual Streaming and Automatic Switching from Low to High Quality on Full screen mode.
40	Option to change Live View directly from cameras or from VMS server using RTSP and HTTP options
41	It should support live view and Playback from minimum 10 clients- Both local and remote
42	It should support event based playback.
43	Client System should have a inbuilt Alarm/Incident Management Dashboard to view all Edge Analytics and integrated 3 <sup>rd</sup> party applications events
44	Ability to search based on Date/Time/Camera, Name, ID and Location for more than one camera simultaneously.
45	Customized camera views based on:
46	User input number of cameras.
	User chosen shape and size.
47	Digital Zoom should be possible on live and recorded videos.
	Both complete live picture and Zoomed picture should be visible simultaneously while zooming.
	Zoom available on snapshots too.
48	It should possible to do On screen PTZ control with Click and Zoom facility, PTZ Presets and tours setting.
	PTZ option should be available through mouse and joystick
	Gaming joystick as well as PTZ joystick options should available
49	Software should allow creation of multiple camera sequences. It should be possible to set the dwell time for the cameras within the sequence.
50	Software should allow sequences control (pause/play, skip forwards, skip backwards).
51	Live view and Playback available at the same time with Playback window running side by side with live view window.
52	Event window with specific snapshot of that event should be shown simultaneously in Live view screen. Clicking on the event should play recording of that event time.
53	Video Management Software should support RTSPS or SRTP or RTSP over TLS Encrypted Live Streaming from cameras (If Supported by Cameras) to VMS as well as support streaming of RTSPS or SRTP or RTSP over TLS Encrypted Live Streaming from VMS servers to clients.
54	To prevent unauthorized access to the streamed video, Video Management Software should support CA certificate-based HTTPS encrypted data and stream

Sl. No	Technical Specifications
	communication between the camera and the recording server. However the CA certificate will be provided by end user but this feature is to be enabled during deployment
55	Playback Navigation Tree View with Recording server, camera list, year/months list and the date wise play list.
56	Playback option for frame-by-frame
57	Playback should have Video lock feature.
58	Option of Common Timeline for syncing of multiple cameras while playback.
59	Ability to make bookmark of any portion of video and view list of all bookmarks
60	Instant Playback and Quick Search of event based recordings.
61	Event based search: Event based Time line to quickly show coloured dots in Timeline and view recorded videos at the event time.
62	Playlist with files listed for each date. User can click on a date to play recordings.
63	E-map client should show icon blink and voice alert of the event. Should be able to take snapshots from Google Map if connected to internet. It should be possible to click on icon in a map to initiate PTZ camera preset, run PTZ pattern, view camera.
64	Two-way audio communication between camera and VMS. Option to send/broadcast Audio to multiple cameras
65	Mobile Surveillance & Remote Viewing Parameters
66	Ability to view live video on iOS and Android phones or devices with or without installing proprietary Apps.
67	PTZ Control on Mobile App and Remote Locations
68	VMS and Mobile App support for multiple sites spread across WAN to be controlled and viewed from central location.
69	Remote Administration over internet.
70	Ability to make a SMS, Whatsapp notification on any alert or alarm
71	The Mobile App should also Support for Audio Streaming along with Video Streaming.
72	Streaming Parameters
73	Option for RTSP, HTTP, RTSP over HTTP streaming or both simultaneously at individual camera level.
74	Authentication parameters (username, password) for streaming to remote clients.
75	Administration & Failover Parameters
76	Automatic discovery of devices using UPnP and/or ONVIF
77	No software limit on number of cameras supported in single recording server (Any increase in the number of cameras should be possible by augmentation of hardware and license components)
78	Add all cameras with single click. Apply settings to multiple cameras of same model with single click.
79	Generate logs & reports in Graphical & Tabular form and export in pdf, excel or more format
80	Failover- Automatic switch of user selected cameras to back-up server in case of

Sl. No	Technical Specifications
	failure.
81	Automatic Health check-up and activation of optimization modules once CPU reached more than 85%.
82	Add multiple recording servers under same management server.
83	User role based cameras and feature access. Define users with passwords and access to only specific cameras
84	Complete server logs including login access, system settings change, archiving events, video or recording loss and all activity done by administrator or any other user in the system.
85	VMS control of cameras and monitoring on client workstations should be done through the administrator interface.
86	System watchdog feature be available to alert in case of failure of cameras and servers.
87	Camera Support Parameters
88	Should support multiple brand IP cameras, Server through ONVIF or API level integration
89	Should support ONVIF protocol including Profile-S, G, T & M.
90	Alarm Centre Parameters
91	Option to view cameras only on alarm. Matrix grid size should change automatically if alarms are generated from multiple cameras simultaneously
92	Automatic or manual reset & close option of video panel
93	Advance Features
94	Failover: System should support N: 1 or N: N failover. Failover time should not be more than 30 seconds.
95	It should have Option to do failover of selected cameras in case of recording server failover.
96	It should have Option to add multiple recording servers under single Management Server.
97	Video Management Software licensing should require MAC Id of Server/Recorder only, not of camera devices.
98	It should have Option to configure video analytics in same client as VMS
99	It should support integration with 3rd party I/O controller devices.
100	External Storage Connectivity & it's Resiliency
101	Video Management Software should support for Connecting Multiple External Storage Devices in the form of Primary & Secondary Storage Drive.
102	It should also have the Option of Storage Drive Redundancy, wherein if the Primary Drive is Unavailable then Video Management Software Application/Recording Server should Automatically Start Recording in the Secondary Configured Drive.
103	In Case of Recording has been done in Secondary Storage Drive, during the Failure of Primary Drives then after the Primary is restored the Recording that took place in the Secondary Drive should be Synchronized in the Primary Drive.
104	VMS Web Client

Sl. No	Technical Specifications
105	VMS Web Client should have Dash boarding Capabilities, such that the Dashboard should Support for OSM Layer, Autocad.dwg File, .JPEG file format, .PDF file format, Customized Video Grid for Live & Playback of Video & Events Table
106	VMS Web Client should show the Camera details with Key Performance Indicators like, Total Cameras connected, Total Cameras Disconnected, Status Visualization in the form of Pie Chart
107	VMS Web Client should have Reporting functionality in the form Camera Uptime, Downtime.
108	VMS Web Client should also show the Recording server status Report, Storage Space Available status & Reports.
109	VMS Web Client should support for H.265 Codec Live & Playback Streaming.
110	VMS Web Client should support comprehensive data filtering for most reports based on entity type, event type, event timestamp, custom fields, and more.
111	VMS Web Client should support the following actions on a report: print report, export report to a PDF/Microsoft Excel/CSV file, and automatically email a report based on a schedule and a list of one or more recipients.
112	Security features
	VMS Server-Client and Mobile(ios+Android) applications should be STQC certified
	Video Management Software should be certified with FIPS-140-3 encryption from any Cert-in empanelled agency for Data protection, encryption for mitigating cyber security risk

#### 8. Rack: Technical Specifications of 42U rack

S No	Features	Description
1	Rack Type	Floor mount steel network/server rack
2	Unit Height	42U
3	Dimensions (WxDxH)	600mm Width x 1000mm Depth x Height conforming to 42U standard
4	Material	Cold Rolled Carbon Steel (CRCA) with powder-coated finish
5	Mounting Standards	Conforms to DIN 41494 or equivalent ISO standards
6	Mounting Angles	4 adjustable 19-inch mounting angles with punched 10mm square holes
7	Universal Hole Pattern	12.7mm (0.5 inch) or 15.875mm hole spacing for flexible equipment mounting
8	Depth Adjustability	Adjustable mounting slots for depth
9	Front Door	Tempered glass door with lock and key for visibility and security
10	Rear Door	Metal door with lock and key
11	Ventilation	Vented top cover with provision for mounting cooling fans
12	Mobility	Freestanding design with 4 caster wheels (2 with brakes, 2 without brakes)
13	Surface	7-stage pre-treatment process adhering to ASTM standards

S No	Features	Description
	Treatment	for powder coating
14	Compatibility	Compatible with all equipment conforming to DIN 41494 or equivalent general industrial standard
15	Weight	Not specified, but constructed for sturdy industrial use
16	Colour	Typically grey or black powder-coated finish
17	Usage	Designed for small networking, domestic applications, audio-video, telecom, and laboratory setups

#### **9. Power Surge Protector: Technical Specifications of 10 KA Power Surge Protector**

S No	Features	Description
1	Interface Connections	2 nos. RJ45 Female Connectors
2	ESD/EMP Protection	Absorbing Transient Current with Response to Surge Voltage from 100V/ $\mu$ s to 1kV/ $\mu$ s
3	Discharge Current	10kA (Maximum), 0.5kA (Normal)
4	Maximum Insulation Resistance	$\geq 1\text{G}\Omega$ @ 50V
5	Maximum Capacitance	1.0 pF @ 1 MHz
6	Data Line Protection	RJ45 10/100/1000 Ethernet
7	IEEE 802.3af and 802.3at compliant for PoE and PoE Plus	Yes
8	Operating Temperature	0 to 65° C
9	Operating Humidity	10 to 90% Non-condensing
10	Mounting	Wall Mount, Suitable fitting to be provided for mounting
11	Additional Feature	Compatible with Cameras and other active components in BoQ, supports PoE/PoE+
12	Earthing	Properly grounded

#### **10. Pigtails: Technical Specifications of Pigtails**

S No	Features	Description
1	Connector Type	Duplex LC
2	Fiber Type	Single-mode fiber (SMF, 9/125 $\mu$ m, OS2)
3	Wavelength	1310 nm
4	Transmission Distance	Up to 10 km
5	Connector Polish	UPC (flat polish, standard for LR/LX)
6	Supply Voltage	3.3 V
7	Operating Temperature (Standard versions)	0 °C to 70 °C
8	Duplex Mode	Full-duplex (separate TX/RX fibers)

#### **11. Fiber Cable: Technical Specifications of Fiber Cable, Outdoor, 24F, OS2**

S No	Features	Description
1	Cable Type	12 fiber Single Mode, Armoured, Loose-tube, Gel filled cable complying to ISO/IEC 11801-1, EN50173, ANSI/TIA 568-D.3; ITU G.652-D; TIA492CAAC suitable for use in outdoor ducts and backbone cabling
2	Fiber Type	Single Mode, 9/125 micron, UV curable



S No	Features	Description
		Acrylate coated above the clad fiber, OS2 (IEC 60793 and ITU T G652.D)
3	Armour	Electrolytic chrome-coated steel Tape Armour of min. 0.15 mm thickness
4	Cable Construction Type	Telcordia GR 20, IEC 60794-1-2E1, E2, E3,E4, E6, E7, E11, F1 and F5
5	Fiber identification	Each fiber strand must be color coded in the sequence as per TIA 598-C standard:
		Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink and Natural.
6	Attenuation	@ 1310nm <=0.35 db/Km MAX
		@1550nm <=0.21 db/Km MAX
7	Loose tube material	Single PBTP Loose tube filled with water blocking Thixotropic gel
8	Loose tube diameter (Nominal)	2.5 ± 0.10 mm
9	Jacket material	High Density Poly Ethylene outer jacket
10	Water Blocking Material	Water Swellable Peripheral Tape/Glass yarn
11	Tensile Strength	600 N or better
12	Crush Resistance	1000 N or better
13	Cable Diameter	7.5 + - 0.5 mm
14	Min Bend Radius – Installation (mm)	200 or better
15	Min Bend Radius – Service (mm)	160 or better
16	Cable weight Kg/Km	100 – 110
17	Operating Temperature	-20 Degree C to +75 Degree C
18	Test Reports	OEM factory test reports must be provided against each drum / roll of fiber cable.
19	Country of Origin	India

## 12. Cat6 STP cable: Technical Specifications of Cat6 STP cable

Sno	Features	Description
1	Standard	ANSI/TIA-568.2-D (Cat 6A), ISO/IEC 11801 Class EA
2	Cable Type	Shielded Twisted Pair (STP) – each pair and/or overall cable is shielded to reduce EMI/RFI
3	Frequency Bandwidth	Up to 500 MHz
4	Data Rate	10 Gbps (10GBASE-T) up to 100 m
5	Max Channel Length	100 m (90 m permanent link + 10 m patch cords)
6	Conductor Size	23 AWG solid bare copper (typical)
7	Pairs	4 twisted pairs
8	Impedance	100 Ω ± 15%
9	Crosstalk Performance	Improved NEXT/PS-NEXT, ACR, and ANEXT compared to Cat 6 (to support 10G)
10	Jacket Type	PVC / LSZH / Plenum depending on installation environment

Sno	Features	Description
11	Outer Diameter	~7.5 – 8.5 mm (larger than Cat 6 UTP due to shielding)
12	Shield Type	F/UTP (foil overall), U/FTP (each pair shielded), S/FTP (each pair + overall braid) – varies by manufacturer
13	Temperature Range	–20 °C to +75 °C (typical operating)
14	Applications	10GBASE-T Ethernet, PoE / PoE+, CCTV, data centers, backbone cabling

### 13. Power cable: Technical Specifications of 3 Cores 2.5 Sq.mm Copper Power cable

S No	Features	Description
1	Roll Length	90m
2	Wire Size	2.5 sqmm
3	Current Carrying Capacity	14 A
4	Material	Copper

### 14. LED Display: 55-inch Commercial LED Display.

Sl.No.	Parameters	Required technical specification
1	Diagonal Size	55"
2	Type	LED, Full High Definition
3	Resolution	3840 x 2160
4	Aspect Ratio	16:09
5	Brightness (Typ.)	500cd/m2
6	Contrast Ratio	4000:01:00
7	Dot Pitch	0.315x0.315mm
8	Response Time	8ms
9	Pixel Per Inch (PPI)	80 PPI
10	Interface	D-SUB, DVI-D, 3 HDMI
11	Power Supply	AC 230 V~ (+/- 10 %), 50 Hz
12	Certifications	EN60950-1, REACH, WEEE
13	Support	24/7 Operation
14	Mounting	With wall mounting accessories
15	Speakers	2, internal (10 W)
16	Environment	ENERGY STAR compliant

### 15. Servers in CCTV Surveillance Systems Technical Specifications

Sr.No	Product	Specifications	
1	Storage Server	CPU	Intel Xeon Silver/Gold Series 16 Cores
		RAM	64GB DDR4
		Storage Bays	3.5 x 24 Bays with RAID 5/6
		Network	Dual 10Gbps Ethernet Ports
		Populated Storage	400TB RAW with 2TB SSD for OS
		Power Supply	Dual RPS
		OS	Linux OS with ZFS Support with Block and

Sr.No	Product	Specifications	
			File access
2	<b>VMS Server</b>	CPU	Intel Xeon Silver/Gold Series 24 Cores
		RAM	128GB DDR4
		Storage Bays	RAID 5/6 with Internal Storage Bays
		Network	Dual 10Gbps Ethernet Ports
		Populated Storage	4TB SSD
		Power Supply	Dual RPS
		OS	Linux OS with Smash Stacking Protection 300 Viewing+Storage License for VMS
3	<b>Management Server</b>	CPU	Intel Xeon Silver/Gold Series 8 Cores
		RAM	32GB DDR4
		Storage Bays	RAID 5/6 with Internal Storage Bays
		Network	Dual 10Gbps Ethernet Ports
		Populated Storage	1TB SSD
		Power Supply	Dual RPS
		OS	Linux OS with Smash Stacking Protection
4	<b>Network Switch</b>	L3 Switch	24-Port L3 Switch with 10GbE Ports

#### Additional requirements:

- **Integration:** Servers should integrate with MTCC (Main Traffic Command Centre), Cyberabad CCC, TGiCCC and local police stations.
- **Backup & Archival:** Minimum 30–90 days storage retention; cloud or NAS backup optional.
- **Virtualization Support:** VMware / Hyper-V / Docker compatibility for scalability.
- **Security:**
  - Role-based access control (RBAC)
  - HTTPS/SSL encryption
  - Regular patch and update management
- **Monitoring Tools:** SNMP or VMS-integrated health monitoring dashboards.

**Requirement of CCTV Cameras and Illumination to Keep Surveillance over the  
Isolated Areas to Curb Illegal Activities /Offences**

<b>Sl. No</b>	<b>Police Station</b>	<b>Location</b>	<b>Whether CCTV cameras required or not (Yes/No)</b>	<b>Whether Illumination needed or not (Yes/No)</b>
<b>RAJENDRANAGAR ZONE</b>				
1	Narsingi PS	Alekhyas homes along service road NCC urban to Kokapet ORR exit-1	Yes	Yes
2	Narsingi PS	Service road from T-Grill Junction to Kokapet exit-1	Yes	Yes
3	Narsingi PS	Service road from Forestrek park to Manchirevula X road	Yes	Yes
4	Rajendra Nagar PS	Service road from Himayathsagar X road to TGPA Junction (Rajendranagar PS)	Yes	Yes
5	Rajendranagar PS	TGPA rotary-2	Yes	Yes
6	Rajendranagar PS	Opp to Vertex Panachi homes underpass	Yes	Yes
7	Rajendranagar PS	TGPA to grey hounds underpass	Yes	Yes
8	Rajendranagar PS	TGPA rotary	Yes	No
9	Narsingi PS	Kokapet Rotary exit-2	Yes	No
10	Narsingi PS	Manchirevula x-roads	Yes	No
11	Rajendranagar PS	Lords college x road underpass	Yes	Yes
12	Rajendranagar PS	Opp to Sana Function Hall underpass	Yes	Yes
13	Rajendranagar PS	Opp to HP Petrol pump near Himayathsagar	Yes	No
14	Rajendranagar PS	Opp to TGPRL under near Rajendranagar exit	Yes	Yes
15	Narsingi PS	Narsingi flyover underpass service road	Yes	No
<b>SHAMSHABAD ZONE</b>				
16	RGIA PS	Rallaguda to Chenamma hotel left side service road at Huda venture	Yes	Yes
17	RGIA PS	Rallaguda to Thondupally left side service road near tollgate	Yes	Yes

Sl. No	Police Station	Location	Whether CCTV cameras required or not (Yes/No)	Whether Illumination needed or not (Yes/No)
18	RGIA PS	Rallaguda, ORR underpass road	Yes	Yes
19	SHAMSHABAD PS	Fort grand underpass road	Yes	Yes
20	SHAMSHABAD PS	Rajivgruhakalpa underpass road	Yes	Yes
21	SHAMSHABAD PS	Chenamma hotel underpass road	Yes	Yes
22	SHAMSHABAD PS	Pedda Golconda (V) near rice mill & Chinna Golconda (V) near T Junction underpass	Yes	Yes
23	SHAMSHABAD PS	ORR service road to Thondupally new road near flyover and underpass road	Yes	Yes
24	SHAMSHABAD PS	ORR service road Shankarapur near T Junction underpass road	Yes	Yes
25	SHAMSHABAD PS	Pedda Golconda Tollgate underpass	Yes	Yes
<b>MADHAPUR ZONE</b>				
26	Gachibolwi PS	Kokapet ORR Junction (Gachibowli PS)	Yes	Yes
27	Gachibolwi PS	Pradhan Convention T Junction (Gachibowli PS)	Yes	Yes
28	Gachibolwi PS	Crusher entrance, Near Pradhan Convention	Yes	Yes
29	Gachibolwi PS	Gandipet ORR Flyover two bridges	Yes	Yes
30	Gachibolwi PS	Municipal dumping yard, Vattinagulapally	Yes	Yes
31	Gachibolwi PS	Kollur to Kokapet underpass bridge	Yes	Yes
32	Gachibolwi PS	Shanker Hills T Junction	Yes	Yes
33	Gachibolwi PS	Eshwar engineering work shop U Turn Service road	Yes	Yes
34	Gachibolwi PS	Khanapur to Vattinagulapally underpass-both side	Yes	Yes
35	Gachibolwi PS	Om patel granite shop underpass-both side	Yes	Yes
36	Gachibolwi PS	Underpass bridge Vattinagulapally backside-both side	Yes	Yes

Sl. No	Police Station	Location	Whether CCTV cameras required or not (Yes/No)	Whether Illumination needed or not (Yes/No)
37	Gachibolwi PS	Vattinagulapally service road to village backside road	Yes	Yes
38	Gachibolwi PS	Underpass bridges between Vattinagulapally towards Mokhila-both side	Yes	Yes
39	Gachibolwi PS	Underpass bridge towards Kollur service road-both side	Yes	No
40	Gachibolwi PS	Nanakramguda tollgate up ramp	Yes	No
41	Gachibolwi PS	Vasavi GP Trends Apartment, Nanakramguda	Yes	No
42	Gachibolwi PS	Nanakramguda roatary-2	Yes	No
43	Gachibolwi PS	Nanakramguda rotary up ramp	Yes	No
44	Gachibolwi PS	Between Nanakramguda up ramp to Gachibowli Junction	Yes	No
45	Gachibolwi PS	Shipa flyover	Yes	No
46	Gachibolwi PS	Gachibowli Junction	Yes	No
47	Kollur PS	ORR Service roadKollur Double bed room phase-2 entrance	Yes	No
48	Kollur PS	Near double bed room kollurORR underpass both sides	Yes	No
49	Kollur PS	ORR service road kollur village underpass both sides	Yes	No
50	Kollur PS	Kollur exit outside of the service roads both side	Yes	No
<b>BALANAGAR ZONE</b>				
<b>NIL</b>				
<b>MEDCHAL ZONE</b>				
51	Shamirpet PS	ORR 66 KM, milestone under bridge (Either side)	Yes	Yes
52	Shamirpet PS	ORR 65 KM, milestone under bridge (Either side)	Yes	Yes
53	Shamirpet PS	Bommaraspeta underpass (Either side)	Yes	Yes
54	Shamirpet PS	ORR Skywalk near green candy farm, underpass (Either side)	Yes	Yes
55	Shamirpet PS	ORR 62 KM	Yes	Yes

<b>Sl. No</b>	<b>Police Station</b>	<b>Location</b>	<b>Whether CCTV cameras required or not (Yes/No)</b>	<b>Whether Illumination needed or not (Yes/No)</b>
56	Shamirpet PS	ORR 60 KM	Yes	No
57	Medchal PS	In between 57 and 56 underpass (Either side)	Yes	Yes
58	Medchal PS	Poodur to Deveryamzal underpass	Yes	Yes
59	Medchal PS	Muneerabad to Deveryamzal underpass	Yes	Yes
60	Medchal PS	ORR Milestone No.53	Yes	Yes
61	Medchal PS	Kandlakoya underpass	Yes	Yes
62	Medchal PS	Gowdavelli underpass	Yes	Yes
63	Dundigal PS	Dundigal Thana underpass	Yes	No
64	Dundigal PS	Praneeth Meadows, underpass	Yes	Yes
65	Dundigal PS	Praneeth Meadows, underpass	Yes	Yes
66	Dundigal PS	Shambipur underpass	Yes	No
67	Dundigal PS	Mallampet underpass	Yes	No

**Note:** All CCTV cameras installed under the project shall be integrated with the MTCC at Nanakramguda, the Command Control Centre at Cyberabad Police Commissionerate, the Telangana Integrated Command and Control Centre (TGiCCC) at Banjara Hills, and, where required, with the respective local police stations.

### **DRAWINGS:**

- 1.1 The plans enclosed with the tender are liable to be altered during execution of work as per necessity of site conditions. The premium quoted by the contractor for various items shall hold good for execution of work even with altered plans.
- 1.2 One set of drawings, on the basis of which actual execution of the work is to proceed shall be furnished free of cost to the contractor by the Chief General Manager (T), HGCL / Deputy General Manager (T) progressively according to the work program submitted by the contractor and accepted by the Chief General Manager (T), HGCL / Deputy General Manager (T). Drawings for any particular activity shall be issued to the contractor at least 30 days in advance of the scheduled date of the start of the activity. However, no extra claims by the contractor toward any delay in issue of drawing or issue of any revision / change to the drawings issued earlier shall be admissible. The Chief General Manager (T), HGCL shall intimate the contractor 7 days in advance regarding any delay to issue of drawings, for any particular stage of works. If work gets effected due to delay to issue of drawings, for any particular stage of work the contractor shall be granted extension of time in terms of condition 14.7 of tender notice.
- 1.3 Signed drawings above shall not be deemed to be an order for work unless they entered in the agreement or schedule of drawings under proper alterations of the contractor and Executive Engineer or unless they have been sent of the contractor by the Executive Engineer with a covering letter confirming that the drawing in and authority for work in contract.

### **1.0 DISCREPANCIES:**

- 2.1 In case of discrepancies between documents the following order of procedure shall apply:-
  - 2.1.1 Between the written description of written dimensions in the drawings and the corresponding one in the specifications, the latter shall apply.
  - 2.1.2 Figured dimensions shall supersede scaled dimensions. The drawings on a larger scale shall take precedence over those on a smaller scale.



2.1.3 Drawings issued as construction drawings from time to time shall supersede tender drawings and also the correspondence drawings previously issued.

**Note: The contractor should not execute any component of work without obtaining the working drawings. Any work done without drawings shall be at the contractors responsibility only. Acceptance for such work will be at the discretion of the Executive Engineer.**

## **2.0 SECRECY CLAUSE:**

The drawings and specifications made available to the tenderer shall exclusively be used on the work and they are retained from passing on each plan to any un-authorized hand either in parts or in full under the provisions of Section-3 and 5 of the official secrets Act 1923. Any violation in this regard will entail suitable action under appropriate clause or official secret Act 1923.

**Name of Work:** “Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad”

## **BILL OF QUANTITIES**

### **PREAMBLE**

1. The Bill of Quantities shall be read in conjunction with the instructions to Tenderers, General and Special conditions of Contract Technical Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional and are given to provide common basis for tendering. *The quantities here given are those upon which the lumpsum tender cost of the work is based but they are subject to alterations, omissions, deductions or additions as provided for in the conditions of this contract and do not necessarily show the actual quantities of work to be done.* The basis of payment will be actual quantities of work ordered and carried out as measured by the Contractor and verified by the Engineer and valued at the estimate rate plus or minus tender percentage quoted in the Bill of Quantities where applicable, and otherwise at such rates and prices as the Engineer-in-Charge may fix within the terms of Contract.
3. The estimate rates in the Bill of Quantities shall, except in so far as it is otherwise provided under the Contract include cost of all constructional material, labour, machinery, transportation, erection, maintenance, profit, taxes and duties together with all general risks, liabilities and obligations set out or implied in the Contract.
4. The plans enclosed with the tender are liable to be altered during execution of work as per necessity of site conditions. The Tender percentage quoted by the tenderer shall hold good for execution of work even with altered plans.
5. The whole cost of complying with the provisions of the Contract shall be included in the estimated rates for items provided in the Bill of Quantities and where no items are provided in the Bill of Quantities, their cost shall be deemed to be distributed among the estimate rates entered for the related items of work.

6. General directions and descriptions of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the Contract documentation shall be made before entering estimate rate against each item in the Bill of Quantities.
7. The method of measurements of completed work for payment shall be in accordance with the relevant B.I.S. Codes & A. P. S. Specifications.
8. All items of work are to be executed as per the drawings / specifications supplied with the contract documents. If there is any contradiction between the drawings and the text of the specifications, the later shall prevail.
9. The Tenderer should inspect and select the quarries of his choice before he quotes the tender percentage in the Schedule of Bill of Quantities and satisfy himself about the availability of required quantum of materials.
10. The quoted tender percentage shall also include the work of any kind necessary for the due and satisfactory construction, completion and maintenance of the works according to the drawings and these specifications and further drawings and orders that may be issued by the Engineer-in-Charge from time to time. The quoted tender percentage shall include compliance by the Contractor with all the general conditions of contract, whether specifically mentioned or not in the various clauses of these specifications, all materials, machinery, plant, equipment, tools, fuel, water, strutting, timbering, transport, offices, stores, workshop staff, labour and the provision of proper and sufficient protective works, diversions, temporary fencing and lighting. It shall also include safety of workers, first aid equipment suitable accommodation for the staff and workmen, with adequate sanitary arrangements, the effecting and maintenance of all insurance, the payment of all wages, salaries, fees, royalties / Taxes, duties or other charges arising out of the execution of works and the regular clearance of rubbish, reinstatement and clearing-up of the site as may be required on completion of works safety of the public and protection of the works and adjoining land. The work of Building in quality control / assurance shall be deemed to be covered in the quoted percentage.
11. The Contractor shall ensure that, the quoted tender percentage shall cover all stages of work such as setting out, selection of materials, selection of

construction methods, selection of equipment and plant, deployment of personnel and supervisory staff, quality control testing etc. The work quality assurance shall be deemed to be covered in the tender percentage.

12.

a) The special attention of the tenderer is drawn to the conditions in the tender notices wherein reference has been made to the Andhra Pradesh Standard Specifications [APSS] and the Standard preliminary specifications containing therein. These preliminary specifications shall apply to the agreement to be entered into between the contractor and the Government of Telangana and shall form an in-separable condition of the contract along with the estimate. All these documents taken together shall be deemed to form one contract and shall be complimentary to another.

b) The tenderer shall examine, closely the A.P.S.S. / MORT&H and also the standard preliminary specifications contained therein and sign the Chief General Manager's office copy of the APSS / MORT&H and its addenda volume in token of such study before submitting his overall tender percentage which shall be for finished work in-situ. He shall also carefully study the drawings and additional specifications and all the documents, which form part of the agreement to be entered into by the successful tenderer. The APSS / MORT&H and other documents connected with contract such as estimate plans, specifications, can be seen on all working days in the office of the Chief General Manager (T), HGCL.

13. The tenderers attention is directed to requirements for materials under the clause 'materials and workmanship' in the preliminary specifications of APSS. Materials conforming to the Bureau of Indian Standards specifications, APSS etc., shall be used on the work and the tenderers shall quote his overall tender percentage accordingly.

14. The tenderer has to do his own testing of materials and satisfy himself that they conform to the specifications of respective I.S. Codes before tendering.

15. The contractor shall himself procure the required construction materials of approved quality including the earth for formation of embankment and water from quarries / sources of his choice. All such quarries / sources of

materials, equipments required for the work shall be got approved by the Engineer-in-Charge in writing well before their use of the work.

16. The contractor shall himself procure the steel, cement, Bitumen, Blasting materials, sand, metal, soils, etc., and such other materials required for the work well in advance. The contractor has to bear the cost of materials for conveyance. The department will not take any responsibility for fluctuations in market in cost of the materials, transportation and for loss of materials etc.
17. Inspection of site and quarries by the tenderer: Every tenderer is expected before quoting his overall tender percentage, to inspect the site of proposed work. He should also inspect the quarries and satisfy himself about the quality, and availability of materials. The best class of materials to be obtained from quarries, or other sources shall be used on the work. In every case the materials must comply with the relevant standard specifications. Samples of materials as called for in the standard specifications or in this tender notice, or as required by the Executive Engineer, in any case, shall be submitted for the Executive Engineer's approval before the supply to site of work is begun.
18. The tenderer's particular attention is drawn to the sections and clauses in the A.P. standard specification dealing with
  - a) Test, inspection and rejection of defective materials and work.
  - b) Carriage
  - c) Construction plant
  - d) Water and lighting
  - e) Cleaning up during the progress and for delivery.
  - f) Accidents
  - g) Delays
  - h) Particulars of payments.

The contractor should closely peruse all the specification clauses, which govern the overall tender percentage he is tendering.

19. The Maintenance Period of contract in terms Contract is 3 years.
20. The estimate rates for items shown in the Schedule "A" include all construction materials. No escalation in rates will be paid unless specified in the tender document. The tenderer has to quote an overall tender percentage considering

all the aspects of the tender to complete the finished item of work as per the APSS / MORT&H / B.I.S. specifications, the special specifications appended, Drawings etc.

21. If there is any contradiction between APSS / MORT&H and B.I.S. specifications, listed and detailed technical specifications, the latter shall prevail.
22. In case of a job for which specifications are not available with the Schedule or in APSS / MORT&H or B.I.S./IS code and are required to be prescribed, such work shall be carried out in accordance with the written instructions of the Engineer-in-charge.
23. The contractor should use the excavated useful soils and stone for construction purpose. Soils used for construction either for homogeneous section in hearting or in casing zone based on the suitability will be at free of cost and the cost of stone used for construction purpose will be recovered from the contractors bill.  
The contractor should quote his tender percentage keeping in view of the above aspects.
24. Additions and alternations by the Tenderer in the Schedule of quantities will disqualify the tender.
25. In the case of discrepancies between the written description of the item in the Schedule “A” and the detailed description in the specification of the same item, the latter shall be adopted.
26. The Unit rates noted below are those governing payment of extras or deductions for omissions according to the conditions or the contract as set-forth in the preliminary specifications of the A.P. standard specifications and other conditions of specification of this contract.
27. It is to be expressly understood that the measured work is to be taken according to the actual quantities when in place and finished according to the drawings or as may be ordered from time to time by the Executive Engineer and the cost calculated by measurement or weight at their respective rates without any additional charge for any necessary or contingent works connected works

connected herewith. The Percentage Excess or less on ECV quoted are for works in situ and complete in every respect.

28. For all items of work in excess of the quantities indicated the rates payable for such excess quantities will be tendered rates i.e., estimate rates plus or minus tender percentage.
29. For all items of work, intermediate payment will be made provisionally as per relevant clause. Full-accepted agreement rates will be paid only after all the items of works are completed.
30. The contractor is bound to execute all supplemental works that are found essential incidental and inevitable during execution of main work.
31. The payment of rates for supplement items of work will be regulated as under.  
Supplemental items directly deductible from similar items in the original agreement.

The rates shall be derived by adding to or subtracting from the agreement rate of such similar item the cost of the difference in the quantity of materials labour between the new items and similar items in the agreement worked out with reference to the schedule of rates adopted in the sanctioned estimate with which the tenders are compared.

- a) Similar items but the rates of which cannot be directly deducted from the original agreement.
  - b) Purely new items which do not correspond to any item in the agreement.  
The rate of all such items shall be estimated rates plus or minus overall tender percentage.
32. ENTRUSTMENT OF ADDITIONAL ITEMS.
    - a) Where ever additional items not contingent on the main work and outside the scope of original agreement are to be entrusted to the original contractor dispensing with tenders and if the value of such items exceeds the limits up to which the officer is empowered to entrust works initially to contractor without calling for tenders approval of next higher authority shall be obtained. Entrustment of all such items on nomination shall be rates not exceeding the estimate rates.

- b) Entrustment of supplement items contingent on the main work will be authorised by the officers up to the monetary limits up to which they themselves are competent to accept items in the original agreement so long as the total amounts up to which they are competent to accept in an original agreement rates for such items shall be worked in accordance with the procedure prescribed in GO Ms.No.1493 PWD, dated: 25-10-1971 and as amended in Govt. Memo number 544 cod 72-22 dated: 06-07-1973.
- c) Entrustment of either the additional supplemental items shall be further subject to the provisions under para 176(b) of APWD Code Viz., the items shall not be ordered by an officer on his own responsibility if the revised estimate or deviation statement providing for the same requires the sanction of higher authority.

**Note:** It may be noted that the term estimate rate used above means the rate in the sanctioned estimate with which the tender's compared or if no such rate is available in the estimate the rate derived will be with reference to the schedule of rates adopted in the sanctioned estimate with which tenders are compared.



## BILL OF QUANTITIES

[Part-I]

**Name of work Given in the Estimate:** “Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad”

S.No	Approximate Quantity In figures/ words	Description of work	Specification No. / APSS / BIS / MORT& H	Unit In figures s / words	Estimate Rate in figures / words	Amount in Rs.
		Schedule - A Enclosed				

**BILL OF QUANTITIES**  
**Part-II**

The rates mentioned in Schedule “A” are inclusive of Over head charges excluding GST and Labour cess.

- i) The Reimbursable amounts are as follows :
  - a. GST @ 18% will be applicable as per Circular Memo No.1823205-A/231/A1/WP/2022, dated:29.12.2022.
  - b. [NAC@0.10%](#)
  - c. Seignorage charges
  - d. DMF and SMET funds on seignorage charges as per rules in vogue
  - e. Labour cess@1%
- ii) The recoveries amounts are as follows
  - a. Labour cess@1%
  - b. Any other taxes/cess levied by the Government time to time.
  - c. Charges for conducting Third party Audit to be borne by the Agency
  - d. Any Charges for Wetting by Third Party Consultant of Designs submitted by the Contractor

**PRICE BID**

[to be placed in the COVER - 'B']

**Name of work Given in the Estimate:** “Design, Supply, Installation, Testing, Commissioning, Warranty, Insurance, Operation and Maintenance of an Integrated IP-Based CCTV Surveillance System at ORR Underpasses, Cyberabad Police Commissionerate Limits on Outer Ring Road, Hyderabad”

a) Estimated contract value (in figures & words) : Rs.                      /-

I Sri / Smt./ M/s.    do hereby express my willingness to execute the aforesaid work as per the conditions, standards, specifications, rules, regulations, etc., stipulated in the tender documents.

b) at an overall tender percentage of (+ or - ) (in figures) (in words)  
excess/less over estimated value.

**SIGNATURE: NAME OF THE TENDERER / AUTHORISED SIGNATORY.**

## **FORMATS OF SECURITIES**

PROFORMA  
BANK GUARANTEE *FOR* EARNEST MONEY DEPOSIT

WHEREAS ..... (Name of the Contractor) (here in after called “the Tenderer”) has submitted his tender response to NIT No..... dated:..... for the work “ .....” (Name of work) (hereinafter called “the tender”).

KNOWN ALL MEN by these present that we ..... (Name and Address of Bank) ..... (hereinafter called “the Bank” are bound unto ..... / (name of the designated PAO) in the sum of \* ..... for which payment will and truly to be made to the said Department, the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the Bank this ..... day of .....200.... THE CONDITIONS of this obligation are:-

- (1) If after Tender opening the tenderer withdraws or modifies his Bid during the period of bid validity specified in the Form of Tender.
- (2) If the Tenderer having been notified of the acceptance of his bid by the Department during the period of validity.
  - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Tenderers, if required; or
  - (b) fails or refuses to furnish the balance EMD and additional performance Security in accordance with the instructions of Tenderers.

We undertake to pay to the Department up to the above amount upon receipt of his first written demand, without the Department having to substantiate his demand, provided that in his demand the Department will note the amount claimed by him is due to him owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date\*\* ..... after the dead line for submission of Tenders as such deadline is stated in the Instructions to Tenders or as it may be extended by the Department, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE..... SIGNATURE OF THE BANK .....

WITNESS..... SEAL.....

-----  
(Signature, Name and Address)

-----  
\*The Tenderer should insert the amount of the EMD in words and figures denominated in Indian Rupee. This figure should be the same as shown in the NIT.

\*\*6 months for the deadline date for submission of Tender. Date should be inserted by the Department before the Tender documents are issued.

PROFORMA  
BANK GUARANTEE FOR BALANCE "E.M.D."  
\_\_\_\_\_(name & address of Department) \_\_\_\_\_

WHEREAS \_\_\_\_\_(name and address of Contractor ) (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. \_\_\_\_\_ dated: \_\_\_\_\_ to execute the work of \_\_\_\_\_ [name of work];

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a Schedule bank for the sum specified therein as balance EMD / EMD for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of \_\_\_\_\_ [amount of guarantee] \_\_\_\_\_ [in words], such sum being payable and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of \_\_\_\_\_ [amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid up to.....i.e., until 28 days from the date of expiry of the Maintenance Period i.e., 3 years from completion of work.

Signature & seal of the Guarantor \_\_\_\_\_

Name of Bank \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_

**PROFORMA**  
**BANK GUARANTEE FOR ADDITIONAL FURTHER SECURITY**

\_\_\_\_\_(name and address of  
Department) \_\_\_\_\_.

WHEREAS \_\_\_\_\_ (name and address of Contractor) (hereinafter called  
“the Contractor”) has undertaken, in pursuance of Contract No. \_\_\_\_\_ dated:  
\_\_\_\_\_ to execute \_\_\_\_\_ [name of Contract and brief description of  
works] (hereinafter called “the Contractor”);

AND WHEREAS it has been stipulated by you in the said Contract that the  
Contractor shall furnish you with a Bank Guarantee by a Schedule bank for the sum  
specified therein as Additional further security bank guarantee for compliance with his  
obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank  
Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and  
responsible to you, on behalf of the Contractor, up to a total of Rs. \_\_\_\_\_ [amount  
of guarantee] \_\_\_\_\_ [in words], such sum being payable and we  
undertake to pay you, upon your first written demand and without cavil or argument,  
any sum or sums within the limits of \_\_\_\_\_ [amount of guarantee] as aforesaid  
without your needing to prove or to show grounds or reasons for your demand for the  
sum specified therein.

We hereby waive the necessity of your demanding the said debt from the  
Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the  
terms of the Contract or of the Works to be performed thereunder or of any of the  
contract documents which may be made between you and the Contractor shall in any  
way release us from any liability under this guarantee, and we hereby waive notice of  
any such change, addition or modification.

This guarantee shall be valid up to and until 28 days from the date completion.

Signature & seal of the Guarantor \_\_\_\_\_

Name of Bank \_\_\_\_\_

Address \_\_\_\_\_

Date \_\_\_\_\_



Annexure – I .

FORM OF SOLVENCY CERTIFICATE BY BANKS

I, \_\_\_\_\_ Managing Director  
 /      Manager      /      General      Manager      /      Agent      of  
 \_\_\_\_\_ Bank Limited do hereby certify  
 that                      a                      \_\_\_\_\_  
 \_\_\_\_\_ *[here the Names and addresses of the contractor]* to be  
 solvent      to      the      extent      of      Rs. \_\_\_\_\_ [Rupees  
 \_\_\_\_\_] as disclosed  
 by the information and record which are available with the aforesaid bank.

For the \_\_\_\_\_ Bank

Date:

Place:

Signature of Bank Manager

[Authorised to Sign]

Annexure – II

Past Performance / Work Experience

Sl. No.	Name of Client	Project Name	Year of Completion	No. of Cameras Installed	Project Value (Rs.)	Contact Details
1						
2						

*Attach completion certificates/work orders for each project listed.*

Annexure – III  
Manufacturer’s Authorization Form (MAF)

To:

The Chief General Manager (Technical),  
Hyderabad Growth Corridor Limited,  
Nanakramguda, Hyderabad – 500032.

We, [Manufacturer Name], having our registered office at [Address], hereby authorize [Bidder Name] to bid, supply, install, and provide warranty & support for our products for the “Tender for CCTV Surveillance System” issued by HGCL.

We confirm that the products offered are genuine, conform to the tender specifications, and will be supported with full OEM warranty as per the terms of the contract.

Signature:

\_\_\_\_\_

Name:

\_\_\_\_\_

Designation:

\_\_\_\_\_

Date:

\_\_\_\_\_

Seal: \_\_\_\_\_