

**Government of West Bengal**  
**Office of The Director General of Police**  
**Telecommunication, West Bengal**

3, Marik Bandyopadhyay Sarani, Tollygunj, Kolkata – 700 040  
Phone: 2377-0400, 2377-1701, Fax: 2311-0651, e-mail: telecomhqs@gmail.com

**Notice Inviting e-Tender No. WBPTel/ADG/eNIT- 02 /Wireless Stores/2021-22 Date: 08 /11 /2021**

The Director General of Police, Telecommunication, West Bengal invites e-Tenders on behalf of Home Department, Government of West Bengal from the bonafied bidders who has previous experience of working in a large congregation.

**Name of the Project:- Project for CCTV surveillance network and backbone infrastructure establishment during entire Ganga Sagar Mela, 2022.**

Sl.	Name of Item/Project	Requirement	Remarks
1	<b>CCTV Installation:</b> Establishment of connectivity for Intra Network of 450 CCTV Cameras in different Sectors viz.Mela Ground, Kachuberia, Chemaguri, Benuban, Lot-8 & Namkhana including Kakdwip with connecting cables, Networking equipment and others except 350 Cameras and requisite NVRs will also be supplied by the vendor.	Rental	350 numbers of Camera (Dauha - 200 Bullet & 50 PTZ & CP PLUS- 50 Bullet & 50 PTZ) and requisite NVRs will be supplied by Telecom Head Quarters. Specifications described in <b>Annexure – IV &amp; V</b> Rest 100 Bullet Cameras (4 MP) with requisite NVR & allied accessories will be supplied by vendor on hiring basis .
2	<b>Establishment of Microwave Connectivity:</b> Point to Point Microwave Connectivity between Kachuberia & Lot-8 to obtain adequate Band-width for integrating 450 CCTV Cameras, Internet, Wi-Fi zones, ROIP, IP Phones in temporarily Towers.	Rental	Equipment (2 pair) will be supplied by Telecom HQ. Equipment description mentioned in <b>Annexure - VI</b>
3	<b>Establishment of Network Backbone Infrastructure:</b> Optical Fiber Cable Lay Out for integrating 450 CCTV Cameras, IP Phones, WiFi capability, GPS in Vehicles to access existing "Ganga Sagar Mela Sahayata" Apps.	Rental	Optical Fiber Cable, Networking equipment and others will be supplied by the Vendor on rental basis. <b>Annexure – VII-(A)</b>
4	<b>Display Units / Video Walls:</b> (i) Display Units for CCTV Network like Video Walls & Monitors of different sizes to obtain feed of 450 cameras at 3 numbers of Control Rooms (1) LOT-8 (2) Kachuberia (3) Sagar Mela Ground. (ii) Arrangement of 15 numbers of Darshan display Unit with necessary feed at various locations.	Rental with accessories.	Required Technical Specifications, descriptions of Jobs & Locations of Video Walls & Monitors for entire Ganga Sagar Island in <b>Annexure – VIII</b> Equipment and Display units will be supplied by the vendor.
5	<b>Internet accessibility:</b> (i) Wi-Fi Zone creation in the 8 locations, require strong access to internet service to handle GangaSagar Sahayata Apps with availability of 50 to 60 numbers of selective CCTV camera feeds for the selected subscriber of Ganga Sagar Sahayata Apps. (ii) Live video footage of 15 numbers of UAV (iii) Sufficient bandwidth for Bhagoban Darshan display.	Rental	Equipment and accessories will be supplied by the vendor. Job description mentioned in <b>Annexure – VII-(B)</b>
6	<b>Uploading of CCTV feed:</b> Uploading of selected camera feeds for remote access to Bhabani Bhaban, Nabanna, Telecom Hqs and selected subscribers with GangaSagar Sahayata App. <b>The calculation of required bandwidth and management of the same will be under provision of vendor.</b>	Rental	Job description mentioned in <b>Annexure – VII-(C)</b>

7	Man Management with sole responsibilities for providing un-interrupted services from the commencement to end of the Ganga Sagar Mela, 2022 for entire Project as mentioned in Annexure- IV to IX.	One time cost.	Detailed descriptions of Jobs mentioned in NIT and Annexure- IX
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**Note :** Earnest Money Deposit Rs. 4,00,000 /- (Four Lakh) Only

**A) ELIGIBILITY OF BIDDERS:**

1. For the event of e-filling, intending bidder may download the Tender documents from the Web Page Links “[wbtenders.gov.in/nicgep/app](http://wbtenders.gov.in/nicgep/app)” or “[policewb.gov.in/wbp/tender.php](http://policewb.gov.in/wbp/tender.php)” directly with the help of Digital Signature Certificate. Earnest Money Rs. 4,00,000 /- (Four Lakh) only have to be remitted through online. No alternative will be accepted. Necessary Earnest Money will have to be deposited by the bidder electronically: online – through his net banking enabled bank account, maintained at any bank. Bidders will get the Beneficiary details from e– tender portal with the help of Digital Signature Certificate and may transfer the EMD from their respective Bank as per the Beneficiary Name & Account No., Amount, Beneficiary Bank name (ICICI) & IFSC Code. Bidders are also advised to submit EMD of their bid, at least 3 working days before the bid submission closing date as it requires time for processing of Payment of EMD. Bidders eligible for exemption of EMD as per Govt. rule may avail the same and necessary documents regarding the exemption of EMD must be uploaded in the EMD folder of Statuary bid documents.
  2. Financial Bid is to be submitted online (both words & figures) concurrently duly digitally signed in the website: <http://wbtenders.gov.in> as per Date & Time schedule stated in **Clause 13**.
  3. (a) Bid will remain valid for a period of 1 (one) year from the issuing of acceptance letter.  
 (b) Conditional/incomplete bid will not be considered.  
 (c) Tenderers should specify the address within the City of Kolkata and Phone/Mobile, Fax No./e-mail I.D. for the purpose of quick communication in the event of urgency.  
 (d) Deviation Statement (if any) may also be enclosed.  
 (e) There should be an on-site guarantee/warranty as per OEM for the items with a mention of specific period.
  4. The selected Bidders shall have to deposit 5% security deposit of the total contract value of the items in favour of the Director General & Inspector General of Police Telecommunication, West Bengal in Bank Guarantee Bond of any nationalized bank and to execute an agreement of contract within 3 (three) days from the date of issue of the work order failing which the letter of acceptance, so issued, may be treated as cancelled as well as the earnest money so deposited may be forfeited and the firm may be blacklisted. No interest would be paid on the performance Security Deposit. Payment will be made as and when fund will be available from the concerned source subject to complete supply of articles.
  5. Orders for the supply and installation of the approved products will be placed with the successful tenderers after the execution of the agreements, and such supply shall have to be made in such installments as may be fixed or spread over the period to be specified in the supply orders to be made in pursuance of the agreements. The successful tenderer will have to supply within Ten days, that should be assured at the time of selection as supplier.
  6. It should be noted that the firm/firms will be selected purely on a "PROVISIONAL BASIS" and the forecast requirement may increase or decrease by any quantity during the period of validity of the tender. The project execution order will be made subject to available of Government Fund. After the tender, proposal will be initiated to the Government for allotment of Fund.
  7. Director General of Police, Telecommunication, West Bengal reserves the right to reject any/or all the tendered rates without assigning any reason and not to place any orders even after selection and is not liable for any cost that might have incurred by any bidder at the stage of bidding and also reserves the right to, divide the contract amongst any number of tenderers, if required so.
- Director General of Police Telecommunication, West Bengal does not bind himself / herself to accept the lowest rate.

8. Any loss incurred by reason of the price paid for such article(s) or any other loss or expense incurred by reason of such default on the part of the Bidders) may be deducted from the bills or any money payable to the Bidders) or from the security deposit of the concerned contractor(s). If the performance of the scheduled jobs are found unsatisfactory or not as to the desired level even after payment, the supplier has to refund the entire amount paid to him earlier for that particular item/equipment.

**9. Each employee of the participating Bidders must be under the insurance coverage for their safety. The West Bengal Police Telecommunication Authority shall in no way be liable in case of any casualty of the staff of the L/1 Bidder at the time of work.**

10. Sufficient number of Technical personnel of the accepted Combined L/1 Bidder must be present at Gansagar Mela Ground, Benuban, Chemaguri, Kachuberia, Lot-8 & Namkhana for un-interrupted service of the CCTV Network, Cameras etc from the Commencement of the work till end of the Fair (from 1st January, 2022 to 20th January, 2022) OR, The successful Installation & setting up of Networking should be completed within the stipulated period of time as will be decided by the District Police Administration.

11. **Conveyance, Fooding & Lodging of the personnel of the Combined L/1 Bidder:-** West Bengal Police Telecommunication authority shall not be liable for the arrangement of the Conveyance, Fooding & Lodging of the personnel of the Combined L/1 Bidder during the entire Ganga Sagar Mela, 2022.

12. The participating Bidders must have previous experience of working in a large congregation like Ganga Sagar Mela etc.

### 13. DATE & TIME SCHEDULE:

SI. No.	Particulars	Date & Time
1.	Date of uploading of N.I.T Documents (Online)	13.11.2021 at 1400 hrs.
2.	Documents download/Sell Start date (Online)	13.11.2021 at 1400 hrs.
3.	Date of hoisting of documents at Departmental Website "policewb.gov.in"	14.11.2021 at 1400 hrs.
4.	Bid submission start date (Online)	13.11.2021 at 1400 hrs.
5.	Pre-Bid Meeting	17.11.2021 at 1100 hrs.
6.	Bid submission closing date (Online)	04.12.2021 at 1400 hrs.
7.	Last date of submission of Earnest Money Deposit (Online)	04.12.2021 at 1400 hrs.
8.	Technical Bid opening (Bid A)	06.12.2021 at 1400 hrs.
9.	Project Demonstration at Telecom HQ	07.12.2021 at 1000 hrs.
10.	Date of uploading list of technically qualified bidders	To be notified later
11.	Date for opening of Financial Proposal (Bid B) (Online)	To be notified later
12.	Date of uploading list of bidders along with the approved rates	To be notified later

14. **Bid opening Location:** Office of the Director General of Police, Telecommunication, West Bengal, 3 Manik Bandyopadhyay Sarani, Tollygung, Kolkata 700 040.

15. Canvassing on the part of tenderers will render his tender to be cancelled summarily.

16. For any clarification regarding the Tender, Tenderers are requested to visit Superintendent of Police, WBP Telecommunication Hqrs., 3 Manik Bandyopadhyay Sarani, Tollygunj, Kolkata 700 040.

**NB:** Any inconsistencies in the descriptions may be expeditiously brought to the notice of the Tendering authority.

## **B) INSTRUCTIONS TO BIDDERS :**

### **GENERAL GUIDANCE FOR e-TENDERING**

Instructions/ Guidelines for electronic submission of the tenders have been annexed for assisting the Bidders to participate in e-Tendering.

#### **I. REGISTRATION OF THE BIDDER:**

Any Bidders willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System, through logging on to <https://wbtenders.gov.in> (the Web Portal of Public Works Department) the contractor is to click on the link for e-Tendering site as given on the web portal.

#### **II. DIGITAL SIGNATURE CERTIFICATE (DSC):**

Each Contractor is required to obtain a Class-II OR Class-III Digital Signature Certificate (DSC) for submission of tenders for the approval service of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the website stated in Clause-I above DSC is given as a USB e-Token.

**III.** The contractor can search & download N.I.T. & Tender Document(s) electronically from computer once he logs on to the website mentioned in Clause-I using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

#### **IV. SUBMISSION OF TENDERS:**

Tenders are to be submitted through online to the website stated in Clause-I in two folders at a time for each work, one in Technical Bid & the other is Financial Bid before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digital Signed. The documents will get encrypted (transformed into non readable formats).

#### **V. PENALTY CLAUSES :**

**(a) PENALTY FOR FORMATION OF CARTEL OR FURNISHING OF FRAUDULENT / MISLEADING DOCUMENTS:** If during the tender process or at any state during the validity of the tender period, it is found that a Tenderer(s) has formed a cartel in whatsoever form or name to fix up the rates or suppliers to the detriment of the fairness of the tender process, penal measures shall be initiated. Similar penal measures shall also be initiated against those tenders who have submitted false / misleading / fraudulent documents or made incorrect declarations. The penal measure will be forfeiture of Earnest Money, Forfeiture of Performance Bank Guarantee if enlisted as a supplier.

**(b)** There will be a scheme for performance measurement of various items or services including Internet, Wi-Fi availability, the overall bandwidth in the network at strategic points etc.

**(c)** The L1 vendor will furnish the performance metrics in a prescribed form as mutually agreed later on daily basis to the Director General of Police, Telecommunication all the day during deployment of the network.

**(d)** A user feedback will also be taken from different users i.e, Officer in charges deployed on duty during Ganga Sagar Mela with respect to the quality of services like Internet availability, the CCTV displays in the Control Room and the service of technicians for fixing enforcing technical issues.

**(e)** Appropriate penal measures including, but not restricted to, the deduction of security deposit bank Guarantee will be initiated if performance is observed below acceptable standard.

**VI. TECHNICAL PROPOSAL:**

The Technical proposal should contain scanned copies of the following in two covers (folders).

**(a) Statutory Cover containing the following documents:**

(1) NIT (2) EMD (3) AGREEMENT PAPER (AS ANNEXTURE-III) (4) TECHNICAL JOB ARCHITECTURE / DESIGN WITH EQUIPMENTS FOR THE SEPARATE LOCATIONS OF THE PROJECT.

**(b) Non-statutory Cover containing the following documents:**

THE ABOVE STATED NON-STATUTORY/TECHNICAL DOCUMENTS  
SHOULD BE ARRANGED IN THE FOLLOWING MANNER.

Click the check boxes beside the necessary documents in the My Document list and then click the tab "Submit Non Statutory Documents" to send the selected documents to Non-Statutory folder.

Next Click the tab "Click to Encrypt and upload" and then click the "Technical" Folder to upload the Technical Documents.

SI. No.	Category Name	Sub-Category Description	Detail(s)
A	Certificate(s)	Certificate(s)	GST Registration, Trade License, Income Tax/PAN, Letter of Authorization/DPL (Dealer Possession License) / OEM (Original Equipment Manufacturer), Latest P.Tax (Challan).
B	Company Detail(s)	Company Detail	Proprietorship Firm-Trade License / Partnership Firm (Partnership Deed, Trade License) / Ltd. Company (Incorporation Certificate, Trade License) / Society (Society Registration Copy, Trade License) / Power of Attorney.
C	Credential	Credential - 1	Similar nature of work done & completion certificate, which is applicable for eligibility in this tender.
D	Returns	Income Tax	Last 3 Financial Year's of Income Tax i.e. for 2018-19, 2019-20 & 2020-21.

NOTE : BLACK & WHITE SCAN MULTIPAGE SCAN DPI MAX 200-300

## VII. FINANCIAL PROPOSAL:

- (a) The Bidder is to quote the rate online through computer in the space marked for quoting rate with BOQ (Bill of Quantities).
- (b) If any contractor is exempted from payment of EMD, copy of relevant Government Order needs to be furnished.
- (c) The financial proposal should contain the following documents in one cover (folder) i.e., BOQ (Bill of Quantities).
- (d) Only downloaded copies of the above documents are to be uploaded virus scanned & Digitally Signed by the contractor. If any tenderer fails to produce the original hard copies of the documents like completion certificate and any other documents on demand of the Tender Evaluation Committee within a specified time frame or if any deviation is detected in the hard copies from the uploaded soft copies, it may be treated as submission of false documents by the Tenderer and action may be referred to the appropriate authority for prosecution as per relevant IT Act.

## C. OPENING & EVALUATION OF TENDER:

1. Opening of Technical Proposal: Deputy Inspector General of Police, Telecommunication, West Bengal will open the Technical bid of the Tender.
2. Intending Tenderers may remain present if they so desire.
3. Cover (folder) for Statutory Documents will be opened first and if found in order, cover (folder) for Non-Statutory Documents will be opened. If there is any deficiency in the Statutory Documents the tender will summarily be rejected.
4. Decrypted (transformed into readable formats) documents of the non- statutory cover will be downloaded & handed over to the Tender Evaluation Committee.
5. Summary list of technically qualified tenderers will be uploaded online.
6. Pursuant to the scrutiny, decision of the Tender Evaluation Committee, the summary list of eligible tenderers & the serial number of work for which their proposal will be considered will be uploaded in the web portals.
7. After the completion of Technical Evaluation, Financial Bid will be opened. The Bidders should participate for all the 7 (Seven) items/projects as mentioned in the Table at Page-1 from Sl. No.1 to 7 in this NIT. **Financial Evaluation will be done on the basis of combined rate for the total items and L1 will be selected as a summation of Sl. Nos. 1 to 7 as mentioned in the Table at Page-1 from Sl. No.1 to 7 in this NIT.**

## VIII. REJECTION OF BID:

The Director General of Police Telecommunication, West Bengal reserves the right to reject any/or all the tendered rates without assigning any reason and not to place any orders even after selection and is not liable for any cost that might have incurred by any bidder at the stage of bidding and also reserves the right to divide the contract amongst any number of Tenderers if required so and to place order for more or less than the quantity mentioned in the forecast requirement. Director General of Police, Telecommunication, West Bengal does not bind himself / herself to accept the lowest rate.

## **IX. AWARD OF CONTRACT:**

The Bidder whose Bid has been accepted will be notified by the Tender Inviting & Accepting Authority through acceptance letter / Letter of Acceptance both online & offline to save time.

The notification of award will constitute the formation of the Contract.

The Agreement in prescribed format in admissible stamp duties will incorporate all agreements between the Tender Accepting Authority and the successful bidder/bidders. The time frame for attending the fault and restoration of equipment within the warranty period and penalty clause for the defaulters will be included in the agreement. All the tender documents including N.I.T. & B.O.Q. will be the part of the contract documents. After receipt of Letter of Acceptance, the successful bidder shall have to submit requisite copies of contract documents downloading from the website stated in the N.I.T. along with requisite EMD.

Once the Tender is accepted the Work Order will be issued, the Vendor should undertake detailed Survey in the Ear marked areas and plan installation accordingly.

**Payment Terms: The total accepted value of the Project will be paid after successful completion of the Project.**

**X. VALIDITY PERIOD: The contract period will be up to November, 2022.**

**XI. The Lowest (L/1) Bidder shall have to shoulder the task of total installation, un-Interrupted Service & Dismantling of the Project.**

**Bidders should participate for all the 7 (Seven) items as mentioned in the table in 1<sup>st</sup> paragraph of this NIT. Financial Evaluation will be done on the combined rates for the total items and L1 will be selected as a summation of Sl. No. 1 to 7 as mentioned in NIT.**

**Director General of Police  
Telecommunication, West Bengal**

### **Committee for Preparation and Up-loading of e-NIT:**

\_\_\_\_\_  
**ADGP Telecom, WB  
(Chairman)**

\_\_\_\_\_  
**DIGP Telecom, WB**

\_\_\_\_\_  
**S.P. Telecom, WB**

\_\_\_\_\_  
**Addl. S.P. Telecom, WB**

\_\_\_\_\_  
**Dr. Manojit Mitra, HOD  
Deptt. Of Electronics  
IEST, Shibpur**

\_\_\_\_\_  
**Smt. Arpita Guha Neogi  
Dy. S.P. -III, TC HQ**

\_\_\_\_\_  
**Shri Somenath Mukhopadhyay  
Inspector (Technical), CCTV**

**FORMAT FOR CHECK LIST**

Sl.No.	Items	Please mark ✓		Page No.
		Yes	No	
1	Application submitted in Annexure - I	Yes	No	
2	Annexure - II (Authorization letter of signatory from the Company)	Yes	No	
3	Annexure - III (Copy of agreement between the manufacturer and the Distributor)	Yes	No	
4	Copy of PAN Card of the authorized signatory	Yes	No	
5	Copy of online payment information as applicable in favour of the Director General of Police, Telecommunication, West Bengal - as Earnest Money	Yes	No	
6	Last 3 financial years' returns of Income Tax, i.e., for 2018-19, 2019-20 & 2020-21.	Yes	No	
7	Latest returns of GST	Yes	No	
8	Lead time compliance certificate from the Bidders. Format will be : Time of Delivery , Time of Installation , Time of Commissioning of System etc.	Yes	No	



**Annexure - I**

**APPLICATION FORMAT**

(To be furnished in the Company's official letter pad with full Address and Contact No., etc.)

To  
The Director General of Police  
Telecommunication, West Bengal  
3, Manik Bandyopadhyay Sarani,  
Tollygunj, Kolkata 700 040

Sub: NIT for Wireless Stores at Office of the Director General of Police, Telecommunication, West Bengal, 3 Manik Bandyopadhyay Sarani, Tollygunj, Kolkata 700 040.

Ref:-

Sir,

Having examined the pre-qualification & other documents published in the N.I.T, I /we hereby submit all the necessary information and relevant documents for evaluation:

1. That the application is made by me / us on behalf of .....  
in the capacity of.....duly authorized to submit the offer.  
The authorization letter from the Company is attached in Annexure II.
2. We accept the terms and conditions as laid down in the NIT mentioned above and declare that we shall abide by it for throughout the tender period.
3. We are offering rate for the following item /items and assure supply to the West Bengal Police Telecommunication, Government of West Bengal as mentioned in Page-1.
4. (a) We propose that the order and bill should be raised in our name. For liaisoning, we have appointed M/s .....having its office at ..... (Address, Contact No. and e- mail address) as C&F agent /Liaisoner /Contact person/..... Others (strike out whichever is not applicable) as per clause.....of the NIT

OR

We propose that order and bill should be raised in favour of our authorized distributor.

(b) For that purpose, we have appointed M/S .....having its office at.....(address with contact no and e mail address) as authorized Distributor who will receive order and payment in his name on our behalf.

(c) The agreement between ourselves and the distributor/C&F/Liaisoner& other documents as prescribed is attached in annexure III

5. In the event of being selected, supply will be made within the stipulated period excepting the condition which is beyond our control.

6. We understand that:

- (a) Tender Selection Committee can amend the scope & value of the contract bid under this project.
- (b) Tender Selection Committee reserves the right to reject any application without assigning any reason.

Date:-

Signature of applicant including title  
and capacity in which application is made.

Telephone No.:

Mobile No.:

E-Mail address:

**Annexure - II**

Authorization letter from Company for authorized signatory.

**Annexure - III**

Copy of agreement signed between tenderer and the distributor etc.

- (A) **Specification of Outdoor 2.0 Megapixel HD Network IR Bullet Camera MFZ:**  
100 (One hundred ) nos. which will be supplied from Telecom Hqrs.  
Make – Dauha, Model –HFW5241E-ZE
- (B) **Specification of Outdoor 2.0 Megapixel HD Network IR Bullet Camera 6 mm:**  
100 (One hundred ) nos. which will be supplied from Telecom Hqrs.  
Make – Dauha, Model –HFW5241E-ASE
- (C) **Specification of Outdoor 4.0 Megapixel HD Network IR Bullet Camera:**  
50(Fifty) nos. which will be supplied from Telecom Hqrs.  
Make – CP Plus Model – CP-UNC-TD41ZL5-VMD
- (D) **Specification of Outdoor 2.0 MP HD Network High Speed Dome IR PTZ Camera:**  
50 (Fifty) nos. which will be supplied from Telecom Hqrs.  
Make – Dauha, Model –DH-SD6CE23OU-HNI
- (E) **Specification of Outdoor 4.0 MP HD Network High Speed Dome IR PTZ Camera:**  
50 (Fifty) nos. which will be supplied from Telecom Hqrs.  
Make – CP Plus Model – CP-UNP-E3041L15-DAP
- (F) **Specification of Embedded HD 64 Channel Network Video Recorder for 2MP Camera:**  
12 (Twelve )nos. which will be supplied from Telecom Hqrs.  
Make – Dauha, Model –NVR5464-4K-S2
- (G) **Specification of Embedded HD 64 Channel 4K Network Video Recorder for 4MP Camera:**  
02 (Two )nos. which will be supplied from Telecom Hqrs.  
Make – CP Plus, Model – CP-UNR-4K564R8-V2
- (H) **Specification of Embedded HD 32 Channel Network Video Recorder for 2MP Camera:**  
01 (One )no. which will be supplied from Telecom Hqrs.  
Make – Dauha, Model –
- (I) **Specification of Embedded HD 32 Channel 4K Network Video Recorder for 4MP Camera:**  
01 (One )no. which will be supplied from Telecom Hqrs.  
Make – CP Plus, Model – CP-UNR-4K532R8-V2
- (J) **Specification of Embedded HD 16 Channel Network Video Recorder for 2MP Camera:**  
06 (Six) nos. which will be supplied from Telecom Hqrs.  
Make – Dauha, Model –NVR4216-4K-S2
- (K) **Specification of Embedded HD 16 Channel 4K Network Video Recorder for 4MP Camera:**  
01 (Six) no. which will be supplied from Telecom Hqrs.  
Make – CP Plus, Model – CP-UNR-4K516R8-V2
- (L) **Specification of Embedded HD 8 Channel Network Video Recorder for 2MP Camera:**  
6 (Six) nos. which will be supplied from Telecom Hqrs.  
Make – Dauha, Model –NVR2108-4K-S2
- (M) **Specification of Embedded HD 8 Channel 4K Network Video Recorder for 4MP Camera:**  
02 (Two) nos. which will be supplied from Telecom Hqrs.  
Make – CP Plus, Model - CP-UNR-4K5082-V2

**A. CCTV:**

1. Installation and Dismantling of 450 CCTV Cameras as per given locations with accessories for Intra-Network of the following 8 sectors.
  - A. Namkhana & Kakdwip
  - B. Lot-8
  - C. Kachuberia
  - D. Chemaguri
  - E. Benubon
  - F. Sagar Mela Ground
  - G. Mainland Traffic including Buffer Zones
  - H. Island Traffic including Buffer Zones
2. All Control Rooms should display feeds of the cameras in the following manner
  - a) Ganga Sagar Main Control Room - 400 cameras.
  - b) Kachuberia Control Room - 300 cameras.
  - c) LOT - 8 Control room - 300 Cameras and other sectors should have equipped of their own camera feeds.
3. 350 Bullet Cameras and 100 PTZ Cameras installation with NVR and Display Unit (i.e. Video Walls, Monitors as required).
4. Location of 402 cameras are given, another 48 locations will be intimated once the location is finalized.

**B. Microwave Link:**

1. Creation of 02 pairs of Microwave Link between LOT-8 and kachuberia as described in Annexure- VI.

**C. Network backbone:**

1. Full Project Mapping and Networking before execution of work in consultation with Telecom Authority.
2. All zones will be connected with local area network.
3. Live footage ( Bhagoban Darson) showing on 15 location situated under the six Sector mentioned above at serial number A to F. There should be at least HD TV broadcast.
4. Selective feed from 50 / 60 cameras under Intra Network required to appear on Ganga Sagar Apps on Internet. Camera locations to be defined by the District Authority.
5. Creation of Wifi Zone at 8 locations at the following locations with around 100 Mbps minimum bandwidth.
  - (i) Island Traffic (Buffer zone-I)
  - (ii) Island Traffic (Buffer zone-II)
  - (iii) Tulshir Chalk
  - (iv) Namkhana Ghat
  - (v) LOT-8
  - (vi) Kachuberia
  - (vii) Chemaguri
  - (viii)Sagar Mela Ground

Area coverage of Wifi Zone (3 km radius approx) should be specified by the districts. There should not be any black spot / shadow areas within the zone.

6. There should be separate adequate 4 mbps upload Bandwidth for the live video footage of 12 numbers of Drones.
7. IP phone link which will be provided by West Bengal Police Telecom.
8. There should be Zone wise technical coordinator round the clock to cope up maintenance issue from the commencement date till the end of Ganga Sagar Mela 2022.
9. Product Installation and Dismantling.

## DIFFERENT LOCATIONS FOR CCTV CAMERA INSTALLATION AT LOT NO.8 HARWOOD POINT AND NATUN RASTER MORE

Total Camera = 81 (Bullet Camera - 78, PTZ camera - 3)

SI No.	Location	Type of camera	Latitude	Longitude	CC Camera SL No.
1	L.C.T. Ghat near river side	Static	21.88076	88.16465	L-1
2	L.C.T. Ghat	Static	21.88103	88.16515	L- 2
3	L.C.T. Ghat	Static	21.88103	88.16515	L- 3
4	L.C.T. Ghat	Static	21.88103	88.16515	L- 4
5	Lot - 8, Bus stand side	Static	21.88209	88.16565	L-5
6	Lot - 8, Bus stand side	Static	21.88209	88.16565	L-6
7	Lot - 8, Bus stand in side	Static	21.88181	88.16644	L-7
8	Lot - 8, Bus stand in side	Static	21.88181	88.16644	L-8
9	River side 1 No. Jetty	Static	21.88259	88.16356	L-9
10	River side 1 No. Jetty	Static	21.88259	88.16356	L-10
11	In front of 1 No. Jetty	Static	21.88257	88.16508	L-11
12	Infront of PR-3	Static	21.88266	88.16675	L-12
13	Infront of PR-3	Static	21.88266	88.16675	L-13
14	End of PR-3	Static	21.88315	88.16504	L-14
15	End of PR-3	Static	21.88315	88.16504	L-15
16	End of PR-3	Static	21.88315	88.16504	L-16
17	In front of PR-4	Static	21.88412	88.16651	L-17
18	In front of PR-4	Static	21.88412	88.16651	L-18
19	In front of PR-4	Static	21.88412	88.16651	L-19
20	End of PR -4	Static	21.88249	88.16628	L-20
21	End of PR -4	Static	21.88249	88.16628	L-21
22	End of PR -4	Static	21.88249	88.16628	L-22
23	2 No. Jetty River side	Static	21.88498	88.16389	L-23
24	2 No. Jetty River side	Static	21.88498	88.16389	L-24
25	In front of 2 No. Jetty	Static	21.88485	88.16521	L-25
26	In front of 2 No. Jetty	Static	21.88485	88.16521	L-26
27	Near Reliance petrol pump	Static	21.88541	88.166675	L-27
28	Near Reliance petrol pump	Static	21.88541	88.166675	L-28
29	End of PR-5	Static	21.88663	88.16656	L-29
30	End of PR-5	Static	21.88663	88.16656	L-30
31	In front of PR -5	Static	21.88773	88.16796	L-31
32	In front of PR -5	Static	21.88773	88.16796	L-32
33	In front of PR -5	Static	21.88773	88.16796	L-33
34	Drop gate- 97D near house of Mojbul	Static	21.89773	88.18112	L-34
35	Drop gate- 97D near house of Mojbul	Static	21.89773	88.18112	L-35
36	3 No. Jetty River side	Static	21.88787	88.16733	L-36
37	3 No. Jetty River side	Static	21.88787	88.16733	L-37
38	In front of 3 No. Jetty	Static	21.88839	88.16541	L-38
39	In front of 3 No. Jetty	Static	21.88839	88.16541	L-39
40	In front of 3 No. Jetty	Static	21.88839	88.16541	L-40
41	In front of PR-6	Static	21.88934	88.16842	L-41
42	In front of PR-6	Static	21.88934	88.16842	L-42

43	In front of PR-6	Static	21.88934	88.16842	L-43
44	In front of PR-6	Static	21.88934	88.16842	L-44
45	End of PR-6	Static	21.88963	88.16654	L-45
46	End of PR-6	Static	21.88963	88.16654	L-46
47	End of PR-6	Static	21.88963	88.16654	L-47
48	Battala more	Static	21.88964	88.16928	L-48
49	Battala more	Static	21.88964	88.16928	L-49
50	Battala more	Static	21.88964	88.16928	L-50
51	Drop gate 80F	Static	21.88852	88.17493	L-51
52	Drop gate 80F	Static	21.88852	88.17493	L-52
53	River side of 4 No. Jetty	Static	21.89074	88.16518	L-53
54	River side of 4 No. Jetty	Static	21.89074	88.16518	L-54
55	In front of 4 no. Jetty	Static	21.89054	88.16641	L-55
56	In front of 4 no. Jetty	Static	21.89054	88.16641	L-56
57	In front of 4 no. Jetty	Static	21.89054	88.16641	L-57
58	Harwood Point More	Static	21.89057	88.16854	L-58
59	Small Car Parking of Near Harwood Point	Static	21.88765	88.16787	L-59
60	Main bus stand	Static	21.88874	88.17129	L-60
61	Main bus stand	Static	21.88874	88.17129	L-61
62	In front of PR - 8	Static	21.89249	88.16983	L-62
63	In front of PR - 8	Static	21.89249	88.16983	L-63
64	River side Jetty No.5	Static	21.89224	88.16737	L-64
65	River side Jetty No.5	Static	21.89224	88.16737	L-65
66	In front of Jetty - 5	Static	21.89273	88.16791	L-66
67	In front of Jetty - 5	Static	21.89273	88.16791	L-67
68	In front of Jetty - 5	Static	21.89273	88.16791	L-68,
69	End of PR - 8	Static	21.89306	88.16802	L-69
70	End of PR - 8	Static	21.89306	88.16802	L-70
71	End of PR - 8	Static	21.89306	88.16802	L-71
72	Daspara more	Static	21.89429	88.17129	L-72
73	Daspara more	Static	21.89429	88.17129	L-73
74	Kalinagar more	Static	21.89753	88.17615	L-74
75	Kalinagar more	Static	21.89753	88.17615	L-75
76	Natun Raster More	Static	21.90446	88.18697	L-76
77	Natun Raster More	Static	21.90446	88.18697	L-77
78	Natun Raster More	Static	21.90446	88.18697	L-78
79	Chattered Bus Parkind	PTZ	21.88921	88.16993	L-PTZ-1
80	Small car paring of Harwood Point	PTZ	21.89015	88.16989	L-PTZ-2
81	Harwood Point More Bus channel	PTZ	21.89087	88.16883	L-PTZ-3

## DIFFERENT LOCATIONS FOR CCTV CAMERA INSTALLATION AT KACHUBERIA SECTOR

**Total Camera = 91 (Bullet Camera - 83, PTZ camera - 8)**

1	Jetty No- 1	Static	88°8'43"E	21°51'32"N	K-1
2	Jetty No- 1	Static	88°8'43"E	21°51'32"N	K-2
3	In front of kachuberia welcome gate	Static	88°8'39"E	21°51'31"N	K-3
4	In front of kachuberia welcome gate	Static	88°8'39"E	21°51'31"N	K-4
5	Drop gate No 5	PTZ	88°8'32"E	21°51'32"N	K-PTZ-01

6	In front of kachuberia old bus stand starting point	Static	88°8'30"E	21°51'32"N	K-5
7	In front of kachuberia old bus stand starting point	Static	88°8'30"E	21°51'32"N	K-6
8	In front of kachuberia old bus stand starting point	Static	88°8'30"E	21°51'32"N	K-7
9	In front of kachuberia old bus stand starting point	Static	88°8'30"E	21°51'32"N	K-8
10	Entrance gate of old bus stand	Static	88°8'27"E	21°51'39"N	K-9
11	Entrance gate of old bus stand	Static	88°8'27"E	21°51'39"N	K-10
12	Entrance gate of old bus stand	Static	88°8'27"E	21°51'39"N	K-11
13	Back side of old bus stand	Static	88°8'28"E	21°51'34"N	K-12
14	Back side of old bus stand	Static	88°8'28"E	21°51'34"N	K-13
15	Back side of old bus stand	Static	88°8'28"E	21°51'34"N	K-14
16	Middle portion of old bus stand	PTZ	88°8'29"E	21°51'34"N	K-PTZ-02
17	In front of drop gate no 23	Static	88°8'30"E	21°51'34"N	K-15
18	In front of drop gate no 6 and 6A	Static	88°8'31"E	21°51'34"N	K-16
19	In front of drop gate no 6 and 6A	Static	88°8'31"E	21°51'34"N	K-17
20	Back side roa of tribeni building	Static	88°8'33"E	21°51'35"N	K-18
21	Middle portion of LCT Jetty	Static	88°8'36"E	21°51'39"N	K-19
22	Middle portion of LCT Jetty	Static	88°8'36"E	21°51'39"N	K-20
23	In front of drop gate no 14	Static	88°8'33"E	21°51'38"N	K-21
24	In front of drop gate no 14	Static	88°8'33"E	21°51'38"N	K-22
25	In front of tribeni building road no 4	Static	88°8'32"E	21°51'36"N	K-23
26	In front of tribeni building road no 4	Static	88°8'32"E	21°51'36"N	K-24
27	In front of tribeni building road no 4	Static	88°8'32"E	21°51'36"N	K-25
28	In front of tribeni building road no 4	Static	88°8'32"E	21°51'36"N	K-26
29	In front of drop gate no 25	Static	88°8'29"E	21°51'37"N	K-27
30	In front of drop gate no 25	Static	88°8'29"E	21°51'37"N	K-28
31	In front of drop gate no 25	Static	88°8'29"E	21°51'37"N	K-29
32	In front of drop gate no 28	Static	88°8'28"E	21°51'39"N	K-30
33	In front of drop gate no 28	Static	88°8'28"E	21°51'39"N	K-31
34	In front of drop gate no 28	Static	88°8'28"E	21°51'39"N	K-32
35	In front of drop gate no 24	Static	88°8'30"E	21°51'39"N	K-33
36	In front of drop gate no 24	Static	88°8'30"E	21°51'39"N	K-34
37	In front of drop gate no 24	Static	88°8'30"E	21°51'39"N	K-35
38	In front of drop gate no 24	Static	88°8'30"E	21°51'39"N	K-36
39	In front of drop gate no 31 of jetty no 2	Static	88°8'29"E	21°51'46"N	K-37
40	In front of drop gate no 31 of jetty no 2	Static	88°8'29"E	21°51'46"N	K-38
41	Jetty no 2	Static	88°8'31"E	21°51'46"N	K-39
42	Jetty no 2	Static	88°8'31"E	21°51'46"N	K-40
43	Jetty no 3	Static	88°8'29"E	21°51'50"N	K-41
44	Jetty no 3	Static	88°8'29"E	21°51'50"N	K-42
45	In front of drop gate no 41 of jetty no 3	Static	88°8'28"E	21°51'49"N	K-43
46	In front of drop gate no 41 of jetty no 3	Static	88°8'28"E	21°51'49"N	K-44
47	In front of drop gate no 41 of jetty no 3	Static	88°8'28"E	21°51'49"N	K-45
48	In front of drop gate no 41 of jetty no 3	Static	88°8'28"E	21°51'49"N	K-46
49	Jetty no 4	Static	88°8'26"E	21°51'55"N	K-47
50	Jetty no 4	Static	88°8'26"E	21°51'55"N	K-48
51	In front of drop gate no 63 of jetty no 4	Static	88°8'24"E	21°51'54"N	K-49
52	In front of drop gate no 63 of jetty no 4	Static	88°8'24"E	21°51'54"N	K-50



53	In front of drop gate no 63 of jetty no 4	Static	88°8'24"E	21°51'54"N	K-51
54	Middle portion of jetty no 4	PTZ	88°8'23"E	21°51'57"N	K-PTZ-03
55	End point of pilgrims road no 6	Static	88°8'27"E	21°51'53"N	K-52
56	End point of pilgrims road no 6	Static	88°8'27"E	21°51'53"N	K-53
57	In front of PR 6B road middle portion of drop gate no 57 & 58	Static	88°8'25"E	21°51'49"N	K-54
58	In front of PR 6B road middle portion of drop gate no 57 & 58	Static	88°8'25"E	21°51'49"N	K-55
59	In front of PR 6B road middle portion of drop gate no 57 & 58	Static	88°8'25"E	21°51'49"N	K-56
60	In front of PR 6B road middle portion of drop gate no 57 & 58	Static	88°8'25"E	21°51'49"N	K-57
61	In front of drop gate no 56	PTZ	88°8'25"E	21°51'49"N	K-PTZ-04
62	In front of watch tower in btwen drop gate no 48 & 52	Static	88°8'23"E	21°51'39"N	K-58
63	In front of watch tower in btwen drop gate no 48 & 52	Static	88°8'23"E	21°51'39"N	K-59
64	In front of watch tower in btwen drop gate no 48 & 52	Static	88°8'23"E	21°51'39"N	K-60
65	In front of watch tower	PTZ	88°8'23"E	21°51'39"N	K-PTZ-05
66	Entrance of pilgrims road no 6	Static	88°8'22"E	21°51'37"N	K-61
67	Entrance of pilgrims road no 6	Static	88°8'22"E	21°51'37"N	K-62
68	Entrance of pilgrims road no 6	Static	88°8'22"E	21°51'37"N	K-63
69	In front of new bus stand exit gate	Static	88°8'22"E	21°51'34"N	K-64
70	In front of new bus stand entrance gate	Static	88°8'21"E	21°51'34"N	K-65
71	In front of new bus stand entrance gate	Static	88°8'21"E	21°51'34"N	K-66
72	In front of new bus stand entrance gate	Static	88°8'21"E	21°51'34"N	K-67
73	In front of drop gate no 80	Static	88°8'21"E	21°51'34"N	K-68
74	In front of Ashram	PTZ	88°8'21"E	21°51'33"N	K-PTZ-06
75	In front of patrol pump	Static	88°8'17"E	21°51'24"N	K-69
76	In front of patrol pump	Static	88°8'17"E	21°51'24"N	K-70
77	In front of Manas shing's house road no 7	Static	88°7'58"E	21°51'42"N	K-71
78	In front of Manas shing's house road no 7	Static	88°7'58"E	21°51'42"N	K-72
79	In front of Bakultala More	Static	88°8'12"E	21°51'12"N	K-73
80	In front of Bakultala More	Static	88°8'12"E	21°51'12"N	K-74
81	In front of new de-boarding point maity more	PTZ	88°8'14"E	21°51'19"N	K-PTZ-07
82	Middle portion of drop gate no 75 & 76	Static	88°8'14"E	21°52'5"N	K-75
83	Middle portion of drop gate no 75 & 76	Static	88°8'14"E	21°52'5"N	K-76
84	In front of drop gate no 70	Static	88°8'22"E	21°51'59"N	K-77
85	In front of drop gate no 70	Static	88°8'22"E	21°51'59"N	K-78
86	In front of drop gate no 70	Static	88°8'22"E	21°51'59"N	K-79
87	Jetty no 5	Static	88°8'23"E	21°51'59"N	K-80
88	Jetty no 5	Static	88°8'23"E	21°51'59"N	K-81
89	In front of drop gate no 73	Static	88°8'19"E	21°52'3"N	K-82
90	In front of drop gate no 73	Static	88°8'19"E	21°52'3"N	K-83
91	In front of kachuberia old bus stand	PTZ	88°8'32"E	21°51'32"N	K-PTZ-08

## SAGAR BUS STAND, CANAL, TEMPLE & BEACH SECTOR

Total Camera = 118 (Bullet Camera - 104, PTZ camera - 14)

1	Cannal Control No. Near Hanuman Temple	Static	21°38'3	88°44'0	CC-1
2	Cannal Control No. Near Hanuman Temple	Static	21°38'3	88°44'0	CC-2

3	Beach Connecting Road No. 1	Static	21'380	88'439	B-3
4	Beach Connecting Road No. 1	Static	21'380	88'439	B-4
5	Beach Connecting Road No. 1	Static	21'380	88'439	B-5
6	Beach Connecting Road No. 1	Static	21'380	88'439	B-6
7	Road No.2 near Temporary PS	Static	31'381	88'430	T-7
8	Road No.2 near Temporary PS	Static	31'381	88'430	T-8
9	Road No.2 near Temporary PS	Static	31'381	88'430	T-9
10	Road No.2 near Temporary PS	Static	31'381	88'430	T-10
11	Beach connecting Road No. 3 A	Static	21'382	88'426	T-11
12	Beach connecting Road No. 3 A	Static	21'382	88'426	T-12
13	Beach connecting Road No. 3 A	Static	21'382	88'426	T-13
14	Beach connecting Road No. 3 A	Static	21'382	88'426	T-14
15	Temple Road No. 2 opposite side of Panchayet Samity Cottage	Static	21'387	88'430	T-15
16	Temple Road No. 2 opposite side of Panchayet Samity Cottage	Static	21'387	88'430	T-16
17	Temple Road No. 2 opposite side of Panchayet Samity Cottage	Static	21'387	88'430	T-17
18	Staring Point of Dala Arcade	Static	21'3811	88'430	T-18
19	Staring Point of Dala Arcade	Static	21'3811	88'430	T-19
20	Dala Arcade inside of Gate No. 1 & 2	Static	21'636	88'074	T-20
21	Dala Arcade inside of Gate No. 1 & 2	Static	21'636	88'074	T-21
22	Dala Arcade inside of Gate No. 1 & 2	PTZ	21'636	88'074	PTZ
23	Cannal Control No. 5	Static	21'3820	88'421	CC-22
24	Cannal Control No. 5	Static	21'3820	88'421	CC-23
25	Cannal Control No. 5	Static	21'3820	88'421	CC-24
26	Cannal Control No. 5	PTZ	21'3820	88'421	PTZ
27	Cannal Control No. 4	Static	21'3819	88'425	CC-25
28	Cannal Control No. 4	Static	21'3819	88'425	CC-26
29	Cannal Control No. 4	Static	21'3819	88'425	CC-27
30	Cannal Control No. 4	Static	21'3819	88'425	CC-28
31	Cannal Control No. 4	PTZ	21'3819	88'425	PTZ
32	Cannal Contarol No.3	Static	21'3818	88'429	CC-29
33	Cannal Contarol No.3	Static	21'3818	88'429	CC-30
34	Cannal Contarol No.3	Static	21'3818	88'429	CC-31
35	Cannal Contarol No.3	Static	21'3818	88'429	CC-32
36	Cannal Contarol No.3	PTZ	21'3818	88'429	PTZ
37	Infront Temple near Harimanha	Static	21'636	88'075	T-33
38	Infront Temple near Harimanha	Static	21'636	88'075	T-34
39	Infront Temple near Harimanha	Static	21'636	88'075	T-35
40	Infront Temple near Harimanha	Static	21'636	88'075	T-36
41	Infront of Temple near Temple Ashram Gate	Static	21'637	88'075	T-37
42	Infront of Temple near Temple Ashram Gate	Static	21'637	88'075	T-38
43	Infront of Temple near Temple Ashram Gate	Static	21'637	88'075	T-39
44	Infront of Temple near Temple Ashram Gate	Static	21'637	88'075	T-40
45	Infront of Temple near Temple Ashram Gate	PTZ	21'637	88'075	PTZ
46	Near Cannal Control No. 2	Static	21'3814	88'434	T-41
47	Near Cannal Control No. 2	Static	21'3814	88'434	T-42
48	Near Cannal Control No. 2	Static	21'3814	88'434	T-43
49	Near Cannal Control No. 2	Static	21'3814	88'434	T-44
50	Road No. 1 Near Gopal Kamila House	Static	21'3810	88'447	B-45

51	Road No. 1 Near Gopal Kamila House	Static	21'3810	88'447	B-46
52	Road No. 1 Near Gopal Kamila House	Static	21'3810	88'447	B-47
53	Road No. 1 Near Ratan panda Hotel	Static	21'3820	88'449	K1-48
54	Road No. 1 Near Ratan panda Hotel	Static	21'3820	88'449	K1-49
55	Road No. 1 Near Ratan panda Hotel	Static	21'3820	88'449	K1-50
56	Starting Point of Road No. 3	Static	21'3833	88'451	K1-51
57	Starting Point of Road No. 3	Static	21'3833	88'451	K1-52
58	Starting Point of Road No. 3	Static	21'3833	88'451	K1-53
59	Starting Point of Road No. 4 at K-1 Bus Stand	Static	21'3835	88'449	K1-54
60	Starting Point of Road No. 4 at K-1 Bus Stand	Static	21'3835	88'449	K1-55
61	Starting Point of Road No. 4 at K-1 Bus Stand	Static	21'3835	88'449	K1-56
62	K-1 Bus Stand	Static	21'3838	88'451	K1-57
63	K-1 Bus Stand	Static	21'3838	88'451	K1-58
64	K-1 Bus Stand	Static	21'3838	88'451	K1-59
65	K-1 Bus Stand	Static	21'3838	88'451	K1-60
66	Light House More	Static	21'3958	88'446	SC-61
67	Light House More	Static	21'3958	88'446	SC-62
68	Light House More	Static	21'3958	88'446	SC-63
69	Ganga Sagar Rickshaw Stand	Static	21'3838	88'455	K1-64
70	Ganga Sagar Rickshaw Stand	Static	21'3838	88'455	K1-65
71	Ganga Sagar Rickshaw Stand	Static	21'3838	88'455	K1-66
72	Road No. 3 & 4 Connecting Road near Hospital at Ganga Sagar	Static	21'3833	88'451	K1-67
73	Road No. 3 & 4 Connecting Road near Hospital at Ganga Sagar	Static	21'3833	88'451	K1-68
74	Road No. 3 & 4 Connecting Road near Hospital at Ganga Sagar	Static	21'3833	88'451	K1-69
75	Road No. 4 in front of holding area	Static	21'3831	88'437	K1-70
76	Road No. 4 in front of holding area	Static	21'3831	88'437	K1-71
77	Road No. 4 in front of holding area	Static	21'3831	88'437	K1-72
78	Road No. 4 starting point of WBSEDCL Bunglow Road	Static	21'3829	88'433	K1-73
79	Road No. 4 starting point of WBSEDCL Bunglow Road	Static	21'3829	88'433	K1-74
80	Road No. 4 starting point of WBSEDCL Bunglow Road	Static	21'3829	88'433	K1-75
81	Road No. 4 Starting point of K-2 bus stand near Froest Office	Static	21'3827	88'430	K1-76
82	Road No. 4 Starting point of K-2 bus stand near Froest Office	Static	21'3827	88'430	K1-77
83	Road No. 4 Starting point of K-2 bus stand near Froest Office	Static	21'3827	88'430	K1-78
84	K-2 Bus Stand link road near Transformer	Static	21'3829	88'429	K2-79
85	K-2 Bus Stand link road near Transformer	Static	21'3829	88'429	K2-80
86	K-2 Bus Stand link road near Transformer	Static	21'3829	88'429	K2-81
87	K-2 Bus Stand link road near Transformer	Static	21'3829	88'429	K2-82
88	Road No. 5 near Police Guest House	Static	21'3824	88'422	CC-83
89	Road No. 5 near Police Guest House	Static	21'3824	88'422	CC-84
90	Road No. 5 near Police Guest House	Static	21'3824	88'422	CC-85
91	Benuban Pre-paid Taxi Stand at Ganga Sagar	Static	21'3828	88'418	K2-86

92	Benuban Pre-paid Taxi Stand at Ganga Sagar	Static	21'3828	88'418	K2-87
93	Benuban Pre-paid Taxi Stand at Ganga Sagar	Static	21'3828	88'418	K2-88
94	Benuban Pre-paid Taxi Stand at Ganga Sagar	PTZ	21'3828	88'418	PTZ
95	West side of Chemaguri Bus Stand	Static	21'3829	88'417	K2-89
96	West side of Chemaguri Bus Stand	Static	21'3829	88'417	K2-90
97	Starting point of Chemaguri Bus Stand near Chowrasta More	Static	21'3831	88'419	K2-91
98	Starting point of Chemaguri Bus Stand near Chowrasta More	Static	21'3831	88'419	K2-92
99	Starting point of Chemaguri Bus Stand near Chowrasta More	Static	21'3831	88'419	K2-93
100	Starting point of Chemaguri Bus Stand near Chowrasta More	Static	21'3831	88'419	K2-94
101	K-2 Bus Stand near Watch tower	Static	21'3832	88'428	K2-95
102	K-2 Bus Stand near Watch tower	Static	21'3832	88'428	K2-96
103	K-2 Bus Stand near Watch tower	PTZ	21'3832	88'428	PTZ
104	K-2 Bus Stand	Static	21'3832	88'430	K2-97
105	K-2 Bus Stand	Static	21'3832	88'430	K2-98
106	Kachuberia Pre-paid Taxi Stand	Static	21'3833	88'431	K2-99
107	Kachuberia Pre-paid Taxi Stand	Static	21'3833	88'431	K2-100
108	Kachuberia Pre-paid Taxi Stand	Static	21'3833	88'431	K2-101
109	Kachuberia Pre-paid Taxi Stand	PTZ	21'3833	88'431	PTZ
110	Sk. Rahaman More	Static	21'3838	88'431	K2-102
111	Sk. Rahaman More	Static	21'3838	88'431	K2-103
112	Sk. Rahaman More	Static	21'3838	88'431	K2-104
113	On Beach in front of Road No. 5	PTZ	21.632	88.076	PTZ
114	On Beach in front of road No. 4	PTZ	21.632	88.075	PTZ
115	On Beach in between road No-3	PTZ	21.633	88.072	PTZ
116	On Beach in front of road No. 03A	PTZ	21.633	88.073	PTZ
117	On Beach in front of road No-2	PTZ	21.632	88.074	PTZ
118	On Beach In front of road No. 01	PTZ	21.632	88.076	PTZ

## CHEMAGURI & BENUBAN SECTOR

**Total Camera = 34 (Bullet Camera - 32, PTZ camera - 2)**

1	Dalapati More	PTZ	21'4012	88'79	PTZ
2	Battala hari Mancha	Static	21'4040	88'530	C-1
3	Battala hari Mancha	Static	21'4040	88'530	C-2
4	Battala hari Mancha	Static	21'4040	88'530	C-3
5	Chemaguri Jetty No. 5	Static	21'4043	88'743	C-4
6	Chemaguri Jetty No. 5	Static	21'4043	88'743	C-5
7	Chemaguri Jetty No. 5	Static	21'4043	88'743	C-6
8	Chemaguri Jetty No. 5	Static	21'4043	88'743	C-7
9	Chemaguri Jetty No. 4	Static	21'4045	88'741	C-8
10	Chemaguri Jetty No. 4	Static	21'4045	88'741	C-9
11	Chemaguri Bazar Chowrasta More	PTZ	21'68	88'126	PTZ
12	Chemaguri Basanti Bastralay More	Static	21'4052	88'732	C-10
13	Chemaguri Basanti Bastralay More	Static	21'4052	88'732	C-11
14	Chemaguri Basanti Bastralay More	Static	21'4052	88'732	C-12

15	Approch way to Chemaguri Bus Stand	Static	21'4055	88'727	C-13
16	Approch way to Chemaguri Bus Stand	Static	21'4055	88'727	C-14
17	Chemaguri Bus Stand	Static	21'4057	88'723	C-15
18	Chemaguri Bus Stand	Static	21'4057	88'723	C-16
19	Chayergheri More	Static	21'4118	88'641	C-17
20	Chayergheri More	Static	21'4118	88'641	C-18
21	Mission Road More	Static	21'416	88'619	C-19
22	Mission Road More	Static	21'416	88'619	C-20
23	Mission Road More	Static	21'416	88'619	C-21
24	Benuban Pre-paid Taxi Stand at Xing near Transformer	Static	21'4035	88'827	C-22
25	Benuban Pre-paid Taxi Stand at Xing near Transformer	Static	21'4035	88'827	C-23
26	Benuban Pre-paid Taxi Stand at Xing near Transformer	Static	21'4035	88'827	C-24
27	Benuban infront of Jetty No. 2	Static	21'4040	88'854	C-25
28	Benuban infront of Jetty No. 1	Static	21'4043	88'857	C-26
29	Benuban infront of Jetty No. 1	Static	21'4043	88'857	C-27
30	Benuban Taxi Stand	Static	21'4035	88'035	C-28
31	Benuban Taxi Stand	Static	21'4035	88'035	C-29
32	PONTOON of Jetty NO.2	Static	21'4044	88'852	C-30
33	PONTOON of Jetty NO.1	Static	21'4046	88'856	C-31
34	PONTOON of Jetty NO.1	Static	21'4046	88'856	C-32

## NAMKHANA SECTOR

**Total Cemaera = 49 (Bullet Cemaera - 46, PTZ cemaera - 3)**

1	Drop Gate No 1/Parking Fees Collection booth	Static	21° 46' 31" N	88° 14' 08" E	N C - 1
2	Drop Gate No 1/Parking Fees Collection booth	Static	21° 46' 31"	88° 14' 08"	N C - 2
3	Small Car Parking (Watch Tower)	Static	21° 46' 19"	88° 14' 10"	N C - 3
4	Small Car Parking (Watch Tower)	Static	21° 46' 19"	88° 14' 10"	N C - 4
5	On East side Service Road and Station Road Junction	Static	21° 46' 17"	88° 14' 09"	N C - 5
6	On East side Service Road and Station Road Junction	Static	21° 46' 17"	88° 14' 09"	N C - 6
7	Bus Stand No - 1 Entry Point	Static	21° 46' 17"	88° 14' 09"	N C - 7
8	Baisakhi Hotel Road & Chilchiling Road Crossing	Static	21° 46' 06"	88° 14' 15"	N C - 8
9	Baisakhi Hotel Road & Chilchiling Road Crossing	Static	21° 46' 06"	88° 14' 15"	N C - 9
10	Baisakhi Hotel Road & Police Accomodation/pilgrimes Shade Road Crossing	Static	21° 46' 05"	88° 14' 16"	N C - 10
11	Baisakhi Hotel Road & Police Accomodation/pilgrimes Shade Road Crossing	Static	21° 46' 05"	88° 14' 16"	N C - 11
12	In front of Pilgrimes Shade	Static	21° 46' 02"	88° 14' 15"	N C - 12
13	In front of Pilgrimes Shade	Static	21° 46' 02"	88° 14' 15"	N C - 13
14	Drop Gate No - 32	Static	21° 46' 05"	88° 14' 23"	N C - 14
15	Drop Gate No - 32	Static	21° 46' 05"	88° 14' 23"	N C - 15
16	Drop Gate No - 6A	Static	21°46'05.8"	88°14'09.3"	N C - 16
17	Drop Gate No - 6A	Static	21°46'05.8"	88°14'09.3"	N C - 17

18	Drop Gate No - 30 & 29	Static	21° 45' 57"	88° 14' 15"	N C - 18
19	Drop Gate No - 30 & 29	Static	21° 45' 57"	88° 14' 15"	N C - 19
20	Hospital Road Crossing (Pilgrimes return Road)	Static	21° 45' 56"	88° 14' 22"	N C - 20
21	Drop Gate No 26 (Fish Landing Ghat Exit Point)	Static	21° 45' 41"	88° 14' 13"	N C - 21
22	Drop Gate No 26 (Fish Landing Ghat Exit Point)	Static	21° 45' 41"	88° 14' 13"	N C - 22
23	LCT Jetty Drop Gate No 25	Static	21° 45' 40"	88° 14' 11"	N C - 23
24	LCT Jetty Drop Gate No 25	Static	21° 45' 40"	88° 14' 11"	N C - 24
25	Jetty No 1 Drop Gate No 23	Static	21° 45' 41"	88° 14' 10"	N C - 25
26	Jetty No 1 Drop Gate No 23	Static	21° 45' 41"	88° 14' 10"	N C - 26
27	Jetty No 2 Drop Gate No 22	Static	21° 45' 42"	88° 14' 09"	N C - 27
28	Jetty No 2 Drop Gate No 22	Static	21° 45' 42"	88° 14' 09"	N C - 28
29	Jetty No 3 Drop Gate No 21	Static	21° 45' 42"	88° 14' 07"	N C - 29
30	Jetty No 3 Drop Gate No 21	Static	21° 45' 42"	88° 14' 07"	N C - 30
31	Drop Gate No 17 & 18	Static	21° 45' 42"	88° 14' 06"	N C - 31
32	Drop Gate No 17 & 18	Static	21° 45' 42"	88° 14' 06"	N C - 32
33	Infront of Sri Durga Idal Association Club	Static	21° 45' 54"	88° 14' 08"	NC - 33
34	Infront of Sri Durga Idal Association Club	Static	21° 45' 54"	88° 14' 08"	NC - 34
35	Namkhana Bridge Sub Way (Drop Gate No 7 & 7A)	Static	21° 45' 49"	88° 14' 19"	NC - 35
36	Namkhana Bridge Sub Way (Drop Gate No 7 & 7A)	Static	21° 45' 49"	88° 14' 19"	NC - 36
37	Namkhana Bridge Sub Way (Drop Gate No 7 & 7A)	Static	21° 45' 49"	88° 14' 19"	NC - 37
38	Service Road infront of house of Suken Mitra	Static	21° 46' 11"	88° 14' 08"	N C - 38
39	Service Road infront of house of Suken Mitra	Static	21° 46' 11"	88° 14' 08"	N C - 39
40	Station Road & Chilchiling Road	Static	21° 46' 16"	88° 14' 17"	N C - 40
41	Station Road & Chilchiling Road	Static	21° 46' 16"	88° 14' 17"	N C - 41
42	Starting point of Namkhana Bridge (Narayanpur Side)	Static	21° 46' 05"	88° 14' 09"	N C - 42
43	Namkhana Bridge (Namkhana Side Staircase)	Static	21° 45' 28"	88° 14' 01"	N C - 43
44	End point of Namkhana Bridge (Namkhanar Side)	Static	21° 45' 12"	88° 14' 07"	N C - 44
45	Namkhana Collage Ground Parking	Static	21° 44' 34"	88° 14' 24"	N C - 45
46	Namkhana Collage Ground Parking	Static	21° 44' 34"	88° 14' 24"	N C - 46
47	Bus stand 1 Watch Tower	PTZ	21° 46' 17"	88° 14' 09"	N PTZ - 1
48	Drop Gate No - 31	PTZ	21° 45' 59"	88° 14' 09"	N PTZ - 2
49	Watch Tower 4 (Near D19)	PTZ	21° 45' 44"	88° 14' 07"	N PTZ - 3

**Point to Point Wireless 10 Km 1.5 Gbps Throughput with installation – 2 Pairs. Both the Microwave Link (Link-1 & Link-2) will function in active mode. Bandwidth of Link-1 will be utilized for CCTV camera feeds and bandwidth of Link-2 will be utilize for Internet, Wi-Fi, Drone footage, Bhagoban Darshan, ROIP & GPS tracking system. Towers and Microwave Equipment will be provided from Telecom Hqrs.**

<b>Specification</b>	
Max. Power Consumption	Upto 50W
Power Supply	Upto 50V, 1.2A PoE GigE Adapter (Included)
Power Method	Passive Power over Ethernet
Supported Voltage Range	+42 to +58VDC, -48VDC
Certifications	CE, FCC, IC
Wind Loading	480 N @ 200 km/hr (108 lbf @ 125 mph) or more
Wind Survivability	200 km/hr (125 mph) or more
Mounting	Pole Mount Kit (Included)
Operating Temperature	Upto 55° C (-40 to 131° F)
<b>Interface</b>	
Data Port	(1) 10/100/1000 Ethernet Port
Configuration Port	(1) 10/100 Ethernet Port
Auxiliary Port	(1) RJ-12, Alignment Tone Port
Maximum throughput	Upto 1.5+ Gbps
Maximum Range	Upto 10+ km
Uplink/Downlink Ratio	50% Fixed
Frequency Accuracy	±2.5 ppm without GPS Synchronization ±0.2 ppm with GPS Synchronization
Channel Bandwidth	100 MHz
Modulation	64QAM MIMO 16QAM MIMO QPSK MIMO QPSK SISO 1/4x QPSK SISO
<b>Integrated Split Antenna</b>	
TX Gain	33 dBi
RX Gain	38 dBi
Beamwidth	<3.5 °
Polarity	Dual-Slant Polarization
Cross-Polarity Isolation	> 28 dB

There will be no spare as redundant support. In case of failure of any of the Microwave Link, there should be provisions to switch all the camera feeds to another Link without delay with a prior consultation with Telecom authority.

**A.**

1. Inter connectivity of cameras between (i) Mela Ground (ii) Chemaguri (iii) Benuban (iv) Island Traffic (v) Kachuberia (vi) Namkhana (vii) Kakdwip and (viii) LOT-8 to be connected through OFC with redundant support.
2. Interconnectivity of cameras between Kachuberia and LOT-8 through Microwave Link (Link-1 & Link-2).
  - (a) In Link-1, there should be a dedicated bandwidth for the cameras.
  - (b) In Link-2, there should be a dedicated bandwidth for Internet, Wi-Fi, Drone footage, Bhagoban Darshan, ROIP & GPS tracking system.

**B.**

1. There will be dedicated /separate OFC link for (i) Wi-Fi Internet, (ii) Network Connectivity of all the cameras,(iii) Bhagoban Darshan display (iv) Video footage of 15 numbers of Drones (v) ROIP etc, so that the load on one bandwidth channel does not squeeze out the bandwidth of others.
2. In addition to Optical Fiber Cable Layout the Internet connectivity from service providers to be provided and ensured for wide area accessibility.

**C.**

1. Point to point connectivity for Nabanna, Bhabani Bhaban and Telecom HQ with 100 Mbps Upload capacity of selected CCTV feeds, live video footage of Drones and ROIP etc.

The Tariff Charges and others to be included during tender submission.



Sl	Display Unit Specification	Requirement
1	(i) Video Wall at Sagar Mela Ground to accumulate 450 cameras. (ii) Video Wall / Display Unit at Sagar Mela Ground to accumulate 15 numbers of Drone feed.	Individual footage in each section in the video wall should be visible.  Upon selection of any camera feed the video should be visible properly.
2	(i) Video Wall for Kachuberia to accumulate 300 cameras. (ii) Video Wall for LOT-8 to accumulate 300 cameras.	
3	Display Units for rest of the locations viz, Namkhana, Kakdwip, Chemaguri & Benuban	
4	Display Units for Bhagaban Darshan at 15 locations which will be decided by SP Sundarban PD.	

Note: Above requirement may have satisfy the CCTV network vide Annexure – IV & V and the requirement of Display Units for the live footage (Bhagaban Darsan) vide Annexure – VIII.

- 1) Zone Connected with fiber gigabit speed, server to clients ends.
- 2) Kachuberia to Sagar OFC cable laying with backup core.
- 3) 450 CCTV cameras need to be installed as per arrangement.
- 4) Creation of Wifi Zones at 8 locations.
- 5) Creation of Microwave connectivity between Lot8 and Kachuberia with Microwave 1.5 Gbps throughput (Link-1 & Link-2).
- 6) Supply of Video Walls or Display Units.
- 7) High speed Internet connectivity from service providers to be provided and ensured for wide area accessibility. The tariff charges and other to be included during tender submission.
- 8) Availability of technical assistance 24 x7 from the start date till the end of Ganga Sagar Mela at each strategic locations.