

1. NOTICE INVITING TENDER (NIT) :

a) Notice Inviting e-Tender No. WBPTel/DG/eNIT- 01 / Wireless Stores / 2023-24 Date: 12.05.2023

The Director General of Police, Telecommunication, West Bengal invites e-Tenders on behalf of the Home Department, Government of West Bengal from the bonafide bidders for the **shifting of self-supported tower 02(two) numbers at the SP's office of Islampur Police District & Jangipur Police District on ground space with Painting, and installation of Aviation lamp, Lightning arrester & Earthing. (Including all materials and Labour Charges and installation of four numbers Static Aerials, with necessary Base Foundation, Super Structure & proper earthing etc. fully completed).** The height of the tower and other specifications are mentioned in the table below: -

SI	Nature of Job	Quantity (Nos.)	Rate	Remarks
1	<p>Shifting of a 150 ft Self Supported (SS) Tower, four (04) legged angular frame with ladder and construction of new Base foundation from Islampur PS to SP office, Teesta Pally under Islampur Police District.</p> <p>The super structure & Ladder will be dismantled and to be re-installed according to the existing approved design and specification of the installed tower by repairing as needed (all nut & bolts with washers should be changed by new Galvanized nut, bolts & washers) with painting and new installation of lightning arrester, aviation lamp and earthing also.</p>	01	Unit wise	<p>The measurement of Base foundation Length & width as per existing tower diagram (See Annexure-IV) For Lightning arrester with earthing (See Annexure-V) (Soil Test report available)</p>
2	<p>Shifting of a 100 ft Self Supported (SS) Tower, four (04) legged angular frame with ladder and construction of new Base foundation from Jangipur SDO office compound to SP office, both are under Raghunathganj PS of Jangipur Police District.</p> <p>The super structure & Ladder will be dismantled and to be re-installed according to the existing approved design and specification of the installed tower by repairing as needed (all nut & bolts with washers should be changed by new Galvanized nut, bolts & washers) with painting and new installation of lightning arrester, aviation lamp and earthing also.</p> <p><u>For new Base foundation at the SP Jangipur PD office, the N-value of the soil up to 07(Seven) meter depth is '7'(Seven). Necessary soil stabilization should be done to have an effective bearing capacity soil of 08(Eight) ton/mtr² before construction of Base foundation. It is ensured at the time of proper drawing & design positively.</u></p>	01	Unit wise	<p>The Length & width of Base as per existing tower diagram and the <u>new Base foundation at the SP Jangipur PD office, the N-value of the soil up to 07(Seven) meter depth is '7'(Seven). Necessary soil stabilization should be done to have an effective bearing capacity soil of 08(Eight) ton/mtr² before construction of Base foundation. It is ensured at the time of proper drawing & design positively.</u> (See Annexure-IV) For Lightning arrester with earthing (See Annexure-V) (Soil Test report available)</p>
	EMD Rs. 30,000/-			

b). Date & Time Schedule:

SI. No.	Particulars	Date & time
1	Date of uploading of N.I.T Documents (Online)	12-05- 2023 at 1800 Hours
2	Documents download/Sell Start date (Online)	12-05- 2023 at 1800 Hours
3	Date of hoisting of documents at Departmental Website “wbpolice.gov.in”	15-05- 2023 at 1800 Hours
4	Bid submission start date (Online)	12-05- 2023 at 1800 Hours
5	Pre-Bid Meeting	19-05- 2023 at 1100 Hours
6	Bid submission closing date (Online)	06-06- 2023 at 1400 Hours
7	Technical Bid opening (Bid A)	08-06- 2023 at 1400 Hours
8	Date of uploading a list of technically qualified bidders	To be notified later
9	Date of opening of Financial Proposal (Bid B) (Online)	To be notified later
10	Date of uploading a list of bidders along with the approved rates	To be notified later

II) INSTRUCTION TO BIDDERS (ITB) :

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

a) Registration of the Bidder:

Any bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System; by logging on to “**wbtenders.gov.in**” (the Web Portal of Public Works Department).

b) Digital Signature Certificate (DSC):

Each bidder is required to obtain a Class-II OR Class-III Digital Signature Certificate (DSC) for submission of tenders.

c) The bidder can search & download N.I.T. & Tender Document(s) electronically once he/she logs on to the website mentioned in the clause-(a) using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

d) Submission of Tenders:

Bids are to be submitted online to the website stated in Clause-(a) in two folders at a time for each work, one is Technical Bid and the other is Financial Bid; before the prescribed date & time. The supporting documents are to be uploaded after duly signed digitally.

e) Penalty Clauses:

PENALTY FOR FORMATION OF CARTEL OR FURNISHING OF FRAUDULENT / MISLEADING DOCUMENTS: If during the tender process or at any stage during the validity of the tender period, if it is found that a bidder has formed a cartel in what so ever form or name to fix up the rates or suppliers to hamper the fairness of the tender process, penal measures shall be initiated immediately. Similar penal measures shall also be initiated against that bidder who has submitted false / misleading / fraudulent documents or made incorrect declarations. The penal measure will be forfeiture of Earnest Money, Forfeiture of Performance Bank Guarantee.

f) Vetting Requirement:

A copy of two drawings & designs along with the specification of the **base foundation** should be vetted from IEST Shibpur Howrah, Civil Engineering department West Bengal or an equivalent reputed government organisation (except Jadavpur University), one for 150 ft. & another for 100 ft (Shifting) four-legged angular frame self-supported (SS) towers will be uploaded by the participating bidders positively.

g) If any bidder is exempted from payment of EMD, a copy of the relevant Government order needs to be furnished.

h) Financial Bid is to be submitted online duly digitally signed by the bidders on the website “**wbtenders.gov.in**” as per the Date & Time schedule.

i) It is the responsibility of the bidders to submit the bid in the formats given and as per the terms & conditions of the tender documents. **If a bidder does not want to quote for an item, the cell of the BOQ should be kept blank (never put zero in a cell of the BOQ). If zero is put against a rate of an item in the BOQ, the rate will be considered as “Not quoted” and though the system generates the rate as L1, the authority will not consider it as L1 and actual L1 will be selected from the lowest of the remaining valid rates.**

j) Opening & Evaluation of Tender:

I) Opening of Technical bid: A Committee headed by Addl. Director General & inspector General of Police Telecommunication, West Bengal will open the Technical bid of the Tender.

II) Cover (folder) for Statutory Documents will be opened first and then Non-Statutory Documents will be opened. If there is any deficiency in the Statutory Documents the tender will summarily be rejected.

III) Documents of the non- statutory cover will be downloaded & handed over to the Tender Evaluation Committee.

IV) Summary list of technically qualified bidders will be uploaded online.

V) After thorough scrutiny of the decision of the Tender Evaluation Committee, the evaluation the summary will be uploaded.

VI) During the evaluation, the committee may summon the bidders and seek clarification for the documents or an original hard copy of any of the documents already submitted or anything related to the specified tender. If any of the documents are not produced within the stipulated time frame, the bid of the particular bidder will be liable for rejection.

VII) After the completion of the Technical Evaluation, Financial Bid will be opened. **Financial Evaluation will be done item wise and L1 will be selected on the basis of the lowest rate as mentioned in the Table on Page-1.**

k) Rejection of Bid:

The Director General of Police Telecommunication, West Bengal reserves the right to reject any/or all the bids without stating any reason and may not place any order to any or all awarded bidder(s). The Director General of Police Telecommunication, West Bengal is not liable for any cost that might have been incurred by any bidder at the stage of bidding.

1) Bid opening Location:

Office of the Director General of Police, Telecommunication, West Bengal, 3 Manik Bandyopadhyay Sarani, Tollygaunge, Kolkata 700 040.

m) Canvassing on the part of bidders will be rejected.

n) For any clarification regarding the Specification of the Tender, bidders are requested to contact with Inspector of Police (Technical) at Telecommunication HQ. 3 Manik Bandyopadhyay Sarani, Tollygaunge, Kolkata 700 040 during office hours.

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

o) Undertaking regarding blacklisting should be uploaded as per Annexure -VI

(p) The financial proposal should be in one cover (folder) i.e., BOQ (Bill of Quantities).

(q) Downloaded copies of the NIT documents and BOQ are to be uploaded digitally signed by the bidder. If any bidder fails to produce the original hard copies of the documents like Completion Certificates 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 bidders and action will be taken by the appropriate authority as per law.

(r) Conditional/incomplete bids will not be considered

III) GENERAL CONDITIONS OF CONTRACT (GCC) :

(a) A bidder, after being accepted by the undersigned authority, shall be liable to do all the works as per the list and as per the accepted rate, for a period of one year from the date of acceptance of the financial bid; without any hike in the prices, whatever be the circumstances.

(b) Bidders should specify the office address within Kolkata and also mentions Phone/Mobile, Fax No. / e-mail I.D for the purpose of quick communication in the event of urgency.

(c) Orders for the execution of proposed work to be placed to the successful bidders will be valid after signing of the agreement (Annexure III). The L1 bidders will have to execute the work within the specified time schedule **and the specified place (according to the work order)**.

(d) It should be noted that the bidder / bidders will be selected purely on a "PROVISIONAL BASIS" and the forecast requirement may be increased (20% maximum) or decreased during the period of validity of the tender.

(e) Selected bidders will have to work according to the work order placed to them either at a time or phase wise according to the necessity. Failing which the bidding firm may be **blacklisted** with the forfeiture of the Performance Bank Guarantee.

(f) Defect Liability Period:

Both the 150 ft & 100 ft (shifting) four (04) legged angular frame SS (Self supported) Towers = 24(Twenty-four) Months.

(g) The participating bidders must have valid Insurance Coverage for the labours, and credentials for such work. All workers must wear helmets and safety belts during the execution of work. No worker should be allowed to work without safety measures and valid insurance coverage. In case of any accident or injury or death of labours at the time of work, the vendor shall be responsible solely.

All responsibility for Tower works shall lie with the agency which would follow safety norms as per IS7205 (safety code for the erection of structural steel work).

IV) SPECIAL CONDITION OF CONTRACT (SCC) :

(a) In case of an extremely emergent situation like devastating natural calamities, the authority reserves the right to place an order not only to the L-1 bidder but also to divide the works amongst L-1 and other bidders subject to the work being completed at the L-1 rate.

Volume-2

TECHNICAL SPECIFICATIONS: Shifting of four legged angular frames SS Tower with Ladder and construction of new Base foundation 150 f t& 100 ft etc: (See Annexure - IV & V)

Volume-3

I) FORMS OF BID :

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

(I) Statutory Cover containing the following documents: To be uploaded accordingly

(1.1) NIT, (1.2) EMD, (1.3) Agreement Paper (AS ANNEXTURE-III) , **(1.4)** Vetted Structural Drawing and design (fabrication of superstructure & Base foundation) of Towers

(2) Non-statutory Cover containing the following documents: To be uploaded accordingly

Sl. No.	Category Name	Sub-Category Description	Detail(s)
2.1	Certificate(s)	Certificate(s)	GST, Trade License, Income Tax/PAN, Latest P. Tax (Challan).
2.2	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.
2.3	Credential	Credential - 1	Similar nature of work done & completion certificate, which is applicable for eligibility in this tender.
2.4	Returns	Income Tax	Last 3 Financial years of Income Tax i.e, for 2020-21,2021-22 and 2022-23

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

II) BILL OF QUANTITIES (BOQ) :

The bidder is to quote the rate online in the space marked at the downloaded BOQ (Bill of Quantities) for quoting rates.

III) STANDARD FORMATS: BID SECURITY, PERFORMANCE SECURITY , FORM OF AGREEMENT :

(a) **EMD:** In the event of e-filling, the intending bidder may download the Tender documents from the Web Page Link "wbtenders.gov.in/nicgep/app" directly with the help of the Digital Signature Certificate. **Necessary Earnest Money of Rs. 30,000.00 (Rupees Thirty Thousand only) will have to be deposited by the bidder through net banking. No alternative will be accepted.** Bidders will get the Beneficiary details from the e-tender portal with the help of a Digital Signature Certificate and may transfer the EMD from their respective Bank as per the Beneficiary Name & Account No., Amount, Beneficiary Bank name & IFSC Code. Bidders are also advised to submit the 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.

(b) **Performance Security :** The selected Bidders shall have to deposit an amount of 3% of the total contract value of the items **against Government Sanction** in favour of the Deputy Inspector General of Police, Telecommunication, West Bengal as Performance Bank Guarantee of any nationalized bank and to execute an agreement of contract (As per Annexure -III) within 10 (ten) days from the date of issue of the work order; failing which the work order, 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 Bank Guarantee. The original copy of the Performance Bank Guarantee should be deposited to Head Assistant, Police Office, West Bengal Police Telecommunication Head Quarters within 10 (ten) days from the date of issue of the work order. Payment will be released subject to the availability of funds as well as the completion of work as mentioned in the work order.

(c) **Award of Contact (AOC):**

The Bidder whose Bid has been accepted will be notified by the Tender Inviting & Accepting committee online, subject to the signing of the agreement in the prescribed format (Annexure III) with admissible stamp duties, incorporating all clauses between the Tender accepting authority and the successful bidder/bidders.

IV) SCHEDULES FOR SUPPLEMENTARY INFORMATION:

Inspection schedule: Three stage inspections will be done (**New & Shifting both**):

1st stage) After the completion of the Reinforced Concrete Cement work (RCC) for the construction of Base foundation of the SS Tower, the 2nd stage work will start within 10 days **after the successfully completion (cube test 7th day and 28th day) of the 1st stage work report. The responsibility is on the Vender to furnish the cube test reports to the District Police Telecom/ Telecom Hqr authority.**

2nd stage) After the completion of the fabrication up to 50 ft of the SS Tower which will be completed within 15 days, after the completion and inspection of RCC work of the Base foundation. **3rd stage work will start after the successfully completion of the 2nd stage work report.**

3rd stage) After the completion of the total SS Tower (super structure fabrication with ladder and painting including, installation of Earthing pit with Lightning arrester, aviation lamp and four no's of Static Aerials), which will be completed within 15 days after the completion of 2nd stage work of the SS Tower.

Volume -4

I) DRAWINGS: The Technical drawing and design of Base foundation (Raft Foundation) are to be uploaded, for shifting 150 ft SS tower of Islampur PD & 100 ft for Jangipur PD by the bidders after being vetted by IEST Shibpur or an equivalent reputed government organization (except Jadavpur University). **New Base foundation at the SP Jangipur PD office, the N-value of the soil up to 07(Seven) meter depth is '7'(Seven). Necessary soil stabilization should be done to have an effective bearing capacity soil of 08(Eight) ton/mtr² before construction of Base foundation. It is ensured at the time of proper drawing & design positively.**

Volume -5

I) DOCUMENTS TO BE FURNISHED BY THE BIDDERS:

Sl.No.	Items	Pl mark ✓		Page No.
1	Copy of drawings & design along with the specification of the base foundation (Raft foundation) should be vetted from IEST Shibpur Howrah or equivalent reputed government organization, Civil Engineering department West Bengal (except Jadavpur University) for shifting the 150 ft SS tower of Islampur PD are uploaded.	Yes	No	
2	Copy of drawings & design along with the specification of the base foundation (Raft foundation) should be vetted from IEST Shibpur Howrah or equivalent reputed government organization, Civil Engineering department West Bengal (except Jadavpur University) for shifting the 100 ft SS tower of Jangipur PD are uploaded. New Base foundation at the SP Jangipur PD office, the N-value of the soil up to 07(Seven) meter depth is '7'(Seven). Necessary soil stabilization should be done to have an effective bearing capacity soil of 08(Eight) ton/mtr² before construction of Base foundation. It is ensured at the time of proper drawing & design positively.	Yes	No	
3	The declaration submitted in Annexure - VI, uploaded.	Yes	No	
4	Copy of NIT duly signed properly on each page, uploaded.	Yes	No	
5	Copy of PAN Card, uploaded.	Yes	No	
6	Copy of GST Registration Certificate, uploaded.	Yes	No	
7	Copy of Trade License, uploaded.	Yes	No	
8	Scan copy of the online transfer of the EMD document/exempted certificate uploaded.	Yes	No	
9	Last 3 financial years' returns of Income Tax, i.e., for 2020-21, 2021-22 and 2022-23, uploaded.	Yes	No	
10	Valid Insurance coverage for all Tower workers and agreement for close monitoring of the use of safety belts & helmets at the time of work positively.	Yes	No	

Note:

- i. The bidders are requested to see that all of the above columns are marked.
- ii. If any of the information furnished above is found to be false, action will be initiated as per law according to the decision of the competent authority.

II.TENDER VALIDITY PERIOD:

The Validity period will be up to June 2024

Addl. Director General & Insp. General of Police
Telecommunication, West Bengal

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

ADG& IGP Telecom, WB
(Chairman)

DIGP-I Telecom, WB

DIGP-II Telecom, WB

Prof. Dr. Partha Bhattacharya
HOD (Deptt. of civil Engineering)
Jadavpur University

Shri Dilip Sarkar
Dysp (Tech) Telecom, WB

Shri Ujjal Gupta
Insp.(Tech), Tower TC HQ

Annexure - I
DECLARATIONS

Sir,

Having examined the Bid Documents of the e-Tender for the Shifting of 150 ft Self Supported (SS) Tower, Four (04) legged angular frame with ladder from Islampur PS to SP office, Teesta Pally under Islampur PD and shifting of 100 ft Self Supported (SS) Tower, Four (04) legged angular frame with ladder from Jangipur SDO office Compound to SP office under Jangipur PD on ground space with Painting, Aviation Lamp, Lightning arrester & earthing also **New Base foundation at the SP Jangipur PD office, the N-value of the soil up to 07(Seven) meter depth is '7'(Seven). Necessary soil stabilization should be done to have an effective bearing capacity soil of 08(Eight) ton/mtr² before construction of Base foundation. It is ensured at the time of proper drawing & design positively.** *(Including all materials and Labour Charges and four numbers of Static Aerials, with necessary Base Foundation, Super Structure & Earthing etc. fully completed)*

We, _____, offer to complete the entire work in conformity with the Terms & Conditions laid down in the Tender Notice No. _____ dated

_____ and would abide by the same terms and conditions throughout the period of the contract.

We, hereby also agree to execute an "Agreement of contract" with West Bengal police Telecommunication based on all the terms & conditions laid down in the Tender Notice No. _____ dated _____ in the event of being selected as a successful Bidder. We understand that you are not bound to accept the lowest or any bid you may receive.

We also understand that you have the right to revise the quantities and/or split the total order among the Bidders.

Signature with date:

Name & Address in block letters:

Seal of the Company:

Telephone no. of the Company:

Mobile No.

E-Mail Address:

Annexure - II

Authorization letter from Company for authorized signatory.

Annexure - III
AGREEMENT

AGREEMENT OF CONTRACT made on between the Home Department, Government of West Bengal, represented by the Director General of Police, Telecommunication, West Bengal having its registered office at 3, M.B. Sarani, Tollygaunge, Kolkata 700040 of the **ONE PART**

AND

Shri/Smt./Miss _____ Son/daughter of _____ carrying on business under the name & style of M/s. _____ of _____, on the **OTHER PART**.

WHEREAS the VENDOR has submitted a tender for _____ to West Bengal Police Telecommunication for the period from _____ to _____ at the cost of Rs. _____ (Rupees only) Including all charges, to any place throughout West Bengal according to the work order.

WITNESS and it is hereby agreed as follows: -

1. THAT the vendor shall execute the work as per the work order at the rate mentioned therein including all other charges to any place throughout West Bengal.
2. THAT the vendor shall deposit Performance Bank Guarantee (@ 3%) with the Deputy inspector General of Police, Telecommunication, West Bengal Rs _____ (Rupees _____) Only for the fulfillment of the terms and conditions of this Agreement containing on the Part of the vendor.
3. In the event of the vendor failing to make a Performance Bank Guarantee, The Director General of Police, Telecommunication, West Bengal or any Officer authorized on behalf, may at discretion, forfeit the Earnest Money lodged with the tender and cancel the acceptance of the tender as well as black list the vendor.
4. If the vendor by any cause, requested for the delay of execution of the work within the period as mentioned in the work order, the period may be extended by the Director General of Police, Telecommunication, and West Bengal after his/ her satisfaction that reasonable grounds exist for such extension.
5. If the Vendor fails to execute the work as per terms & conditions of the TENDER NOTICE and/or work order, the Director General of Police, Telecommunication, West Bengal or any Officer authorized on behalf, without any notice to the Vendor, forfeit the Performance Bank Guarantee and/or black-list the vendor.
6. All the terms and conditions of the TENDER NOTICE and work orders are binding on the Vendor.

7. If the vendor fails to comply with any of the Tender Clauses or if the material used is not up to the standard then the Director General of Police, Telecommunication, West Bengal or any Officer authorized on behalf, may order the vendor to remove such defective items at his own expense.

8. The newly constructed towers shall not be taken into stock and the payment process will not be initiated until such towers have been inspected and considered to be fit for being accepted and taken into stock by the Inspection Committee/ Acceptance Committee.

9. All the GCC and SCC or any above terms and conditions arising out of the Tender documents, shall also be part of this agreement.

This contract shall not be sublet or assigned either wholly or in part without the previous written permission of the Director General of Police, Telecommunication, West Bengal or any Officer authorized on that behalf and on breach of this provision, the Director General of Police, Telecommunication, West Bengal or any other Officer authorized on that behalf may terminate the contract and forfeit the Performance Bank Guarantee .The vendor shall have no claim for loss thereby resulting to him on any account whatsoever.

On any breach by the vendor, the Director General of Police, Telecommunication, West Bengal or any Officer authorized on that behalf may recover any loss sustained and shall terminate the contract on "SEVENDAYS' NOTICE". The decision of the Director General of Police, Telecommunication, and West Bengal shall be final on any question.

Signed and delivered for and on behalf of the Home Department, Government of West Bengal, by the Director General of Police, Telecommunication, West Bengal
.....

AND

Signed and delivered for and on behalf Of the

In presence of.....

Annexure - IV

SL. No.	Name of the Item	Technical Specification
01	<p>1) The measurement of Base foundation Length & width as per existing tower diagram of 150 ft SS Tower (shifting).</p> <p>2). The measurement of Base foundation Length & width as per existing tower diagram of 100 ft SS Tower (shifting).</p>	<p>The drawing & design will be uploaded by the participating bidders duly vetted from IEST Shibpur Howrah, Civil Engineering department West Bengal or equivalent reputed government organization, except Jadavpur University for the shifting of 150 & 100 ft four-Legged angular frames SS Tower with Ladder. The following points should be taken into consideration to the participating bidders,</p> <p>1. Foundation: Foundation land area minimum 15 ft X15 ft (centre to centre) will be available at each mentioned location and “Raft Foundation” only should be considered. The foundation should be RCC (Reinforced Cement Concrete) with at least M-25 design mix. Foundation depth should not be less than 08 ft from the virgin soil and should project 02 ft high from the ground level (Total height 8ft+2 ft = 10 ft) which is to be done in presence of the In-Charge of respective Telecom unit. The foundation bolts for tower construction to the base should be connected using hot deep galvanized steel foundation bolts.</p> <p>2. Cube Test: Participating bidders should have to collect a minimum of 06 (six) nos of cubes from the foundation structure (RCC with M 25 mix grade), which is to be collected in presence of the In-Charge of the respective Telecom unit. It should be tested by any Government Institution (engineering college of Purulia, Jalpaiguri, Jadavpur, Shibpur, Kharagpur & NTH Kolkata etc.) on the 07th day and 28th day of construction. If the cube test results are satisfactory then the construction of the superstructure will start. The responsibility is on the Vender to furnish the cube test reports to the District Police Telecom/ Telecom Hqr authority</p> <p>3.Earthing and Lightning arrester: According to the drawing and design of the Annexure V Earth resistance should be less than 0.5 Ω(point five) Ohm . A Galvanized rod of length 1500 mm and 15 mm diameter with 05 prongs for the Lightning arrester fitted with connecting strip 20mm X 3 mm running from the top of the tower to the ground should be used (All through each and every junction of the connecting strip should be soldered). Earthing Pit: Galvanize Iron Pipe (TATA make) 3000 mm with a diameter of 50mm (see the diagram of lightning arrester with earthing, see Annexure V)</p> <p>4. Installation of new Aviation Obstruction Light HEAVY DUTY, HARD CLEAR GLASS COVER Cast alu.(LM-6) housing, weather proof IP65, painted with weather & heat proof yellow epoxy powder coating, covered by transparent borosilicate hard glass, sealed with rubber gasket & retaining metal ring, long life & energy saving, solid state, 7 parallel circuit, ultra bright high glow red LED’s, color Red, max power consumption:24W, 235cd, input voltage: 150-300Vac, Suitable for low type-A lumens intensity applications. Cat Par No.:AOL/SE-24,Single Dome, Emitter life 1,00,000 hrs (11 Years) and new wire with PVC pipe)With materials (Specification: HG Wire two core 1.5 copper wire, Covering PVC Pipe up to switch board (warrantee 02 years).</p> <p>5. Painting the Tower with all materials: (i) Cleaning of rust and rubbing the total tower. (ii) Nut-Bolts should be checked properly before Painting (iii) One coat of Primer and two coats of Enamel Paint (iv) Primer – Red lead (Make Murarka) (v) Paint – Asian paints /Berger (White and Deep Orange) and also cleaning the Tower surrounding area.</p>

The new Base foundation at the SP Jangipur PD office, the N-value of the soil up to 07(Seven) meter depth is '7' (Seven). Necessary soil stabilization should be done to have an effective bearing capacity soil of 08(Eight) ton/mtr² before construction of Base foundation. It is ensured at the time of proper drawing & design positively.

6. Copy of two separate drawings & designs along with the specification should follow standard BIS codes, one for the Base foundation 100 ft SS Tower shifting (for the new Base foundation of 100 ft SS Tower shifting at the SP Jangipur PD office, the N-value of the soil up to 07(Seven) meter depth is '7' (Seven). Necessary soil stabilization should be done to have an effective bearing capacity soil of 08(Eight) ton/mtr² before construction of Base foundation. It is ensured at the time of proper drawing & design positively) and another for 150 ft SS tower shifting should be submitted. It will be required for the onward verification process.

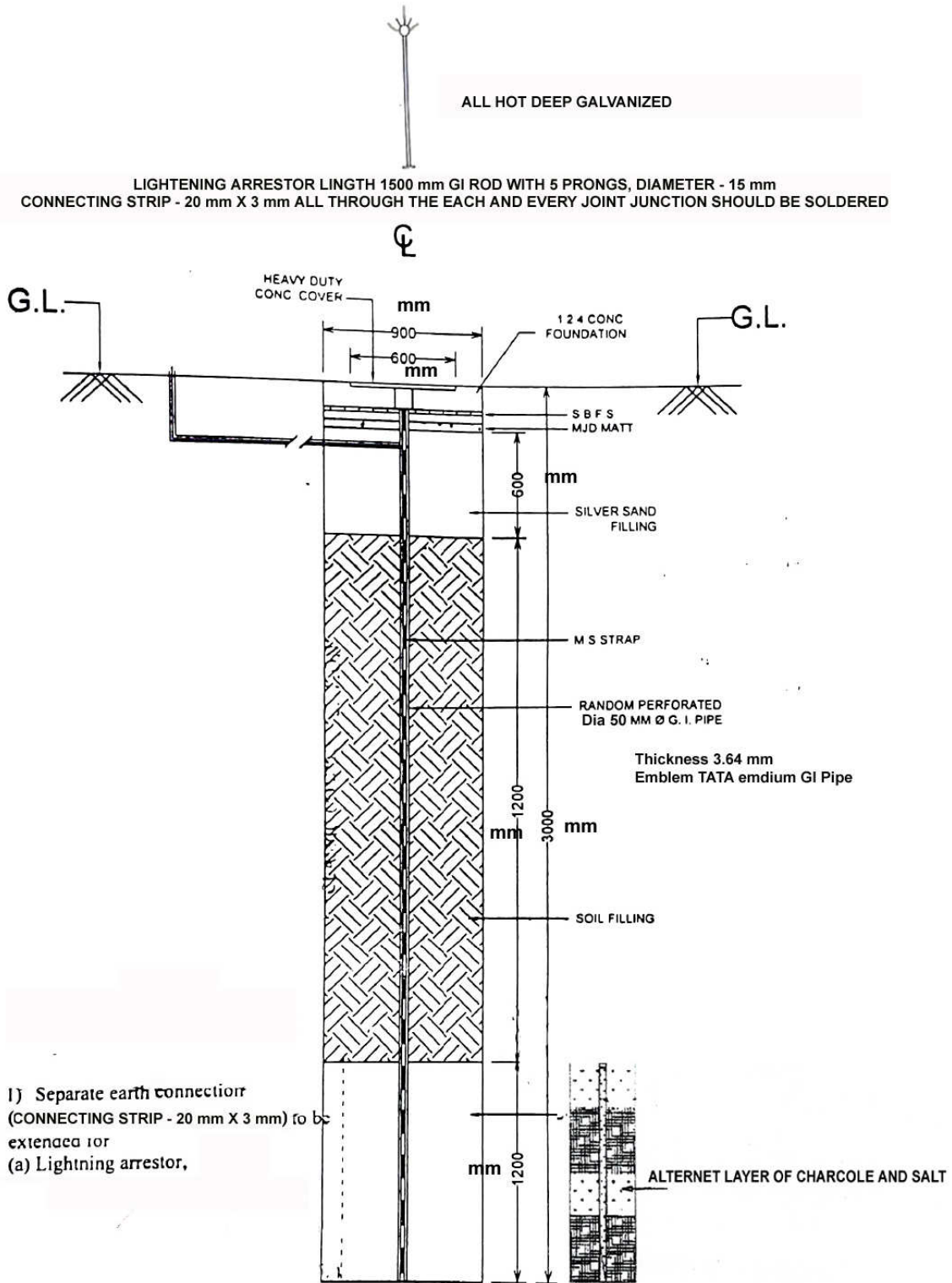
7. The thickness of the Base Plate of the SS Towers should not be less than 20 mm. The old Base plate should be repaired/replaced.

8. All the nut & bolts with washers should be replaced by new one. The nut & bolts with washers should be hot deep Galvanized as per ASTM F2329.

9. Foundation Bolt: The thickness of the Foundation Bolt of the Towers should not be less than 20 mm (Galvanized) and minimum length is 05 feet (for new Base foundation of the shifting of Towers).

The Technical vetting for the designs and drawings of the base foundations should be vetted by IEST Shibpur Howrah, Civil Engineering department West Bengal or an equivalent reputed government organization (except Jadavpur University) and up loaded. One vetted hard copy of the drawing and design of the each base foundations (150 ft & 100 ft) should be deposited at office of the Director General of police Telecommunication HQr , West Bengal ,Kolkata - 700 040 on or before of Technical Bid Opening.

Annexure - V



DETAIL OF TYPICAL LIGHTNING ARRESTOR WITH EARTHING

Annexure - VI
UNDERTAKING REGARDING BLACKLISTING

[To be executed on Rs.10/- non-Judicial Stamp paper and duly notarized]

I/we _____

Vendor/Partner / Sole Proprietor /firm (Strike out the word which is not applicable) do hereby declare and solemnly affirm that M/s _____ have not been

blacklisted during the last 5 years by the Union or State Government.

Blacklisted by the Union or State Governments or any partner or shareholder thereof are not directly or indirectly connected with or have any subsisting interest in the business of my firm.

Deponent _____

Dated _____ Address _____

I do hereby solemnly declare and affirm that the above declaration is true and correct to the best of my knowledge and belief. No part of it is false and it conceals nothing.

Dated: _____

Deponent _____