

# NEW TOWNTOWN KOLKATA DEVELOPMENT AUTHORITY

(A Statutory Authority under Government of West Bengal)  
3333, Major Arterial Road . DG Block, Action Area-ID . Kolkata -700756  
Ph. No. (033)2324-2138 Email Id: seme@nkda.in

Memo No: 7561 /EE(E)/NKDA/Est 42/2023-24

Date: 25 .07.2023

## Notice Inviting e-Quotation No. 40/EE(E)/NKDA/2023-24

Executive Engineer (E), New Town Kolkata Development Authority invites quoted rate e-quotation from resourceful, reliable, bonafide manufacturer/ dealer or distributor/traders & Industrial under taking organization etc. Who has tender specific authorization for the work detailed below:

### 1. (Submission of Bid through online)

I	<b>Name Of Work</b>	Supply delivery installation, testing, commissioning, and comprehensive maintenance of three years application based 10KW EV AC Chargers for two/three wheelers at different locations of New Town under NKDA
II	<b>Eligibility Of The Bidder</b>	<b>Bonafide, resourceful and reliable Electrical contractor.</b>
III	<b>Estimated Amount Put to Tender</b>	<b>Agency has to Quote</b>
IV	<b>Earnest Money To Be Deposited through Online.</b>	Earnest money Rs. <b>80,000.00/ (Rupees eighty thousand)</b> only to submit through Online payments/RTGS/NEFT from ICICI Bank. In favor of "Newtown Kolkata Development Authority" payable at Kolkata
V	<b>Time Period of Completion of Work</b>	<b>90 days for installation commissioning and 3Years O&amp; M</b>
VI	<b>Bid opening place (Technical &amp; Financial)</b>	<b>Office of the Executive Engineer[E], NKDA</b>

### 2. Eligibility criterion for participation in the Tender:

#### I. Intending Tenderer:

- shall have satisfactorily completed during the last 5(five) years from the date of issue of this notice at least one work of similar nature/Electrical O&M /E I of similar nature work of work having a minimum value equal to Rs.16 L or
- shall have satisfactorily completed during the last 5(five) years from the date of issue of this Notice at least two works of similar nature /Electrical O&M /E I of work inclusive of similar items of work each of which having a minimum value equal to Rs.12L or
- shall produce credential of one single running work of similar nature/ Electrical O&M /E I inclusive of similar items of work which has been satisfactorily completed up to the extent of Rs.32L and the value of such executed part is not less than the desired value as at (ii)/(a) above, provided that the credential certificate clearly states that the work is in progress satisfactorily and also that no penal action has been initiated against the executing agency, i.e., the instant bidder, under the authority of State/ Central Govt. State/ Central Govt. undertaking/ Statutory Bodies constituted under the statute of the Central / State Govt.

**DATA SHEET of the item for which rate has been quoted is to be uploaded (Scan). Materials are to be delivered at site.**

N.B.: - Completion certificate should contain a) Name of work, (b) Name of Client, (c) Amount put to tender, (d) Schedule month and year of commencement and completion as per work order (e) actual month and year of completion. f) Total Bill amount containing with work order copy with schedule.

II. The prospective bidders must have valid up to date clearance of Income Tax return, Pan Card, Trade licenses, P.T. (Deposit Challan)/ Professional Tax Clearance Certificate, Valid 15-digit Goods and Services Taxpayer Identification Number (GSTIN) under GST Act, 2017, Electrical Supervisors' Certificate of Competency in parts 1,2,7A & 11 or Equivalent National Supervisors' Certificate of Competency, Electrical Contractor's License, Voter ID Card for self-identification and Income Tax Acknowledgement Receipt for latest assessment year.

III. The contractors who have been delisted or debarred by any government department shall not be eligible in any way.

IV. Joint Ventures/MOU will not be allowed.

V. The prospective bidders should have their own registered office in West Bengal, they must submit their organogram for escalation purpose.

VI. Bidder must have to submit EV Chargers OEMs authorization, minimum three years warranty.

### 3. IMPORTANT DATE AND TIME SCHEDULE:

Sl.	PARTICULARS	DATE & TIME
1	Date of uploading (Publishing) of N.I.Q. Documents (Online)	25.07.2023
2	Documents download start date (Online)	25.07.2023 from 06:55 P.M.
3	Documents download end date (Online)	18.08.2023 up to 06:55 P.M
4	Bid proposal submission start date (Online)	25.07.2023 from 06:55 P.M.
5	Bid proposal Submission end date (Online)	18.08.2023 up to 06:55 P.M
6	Date of Pre-Bid meeting at NKDA office	31.07.2023 at 11:00 A.M
7	Bid opening date for Technical Proposals (Online)	21.08.2023 at 11:00 A.M.
8	Date of uploading list for Technically Qualified Bidder (Online)	<b>Would be intimated later on.</b>
9	Date of opening of Financial Proposal (Online)	<b>Would be intimated later on.</b>
10	Date of uploading of list of bidders along with their rates through (Online), also if necessary for further negotiation through offline for final rate.	<b>Would be intimated later on.</b>

**4. Rate should quoted incl. All taxes and GST. The lowest value offered in totality will be the lowest bidder.**

5. For e-Filing, the intending bidder may download the tender document from the website <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate, free of cost. **EMD (Earnest Money Deposit) @ 2% of the quoted amount**, should be remitted through online in favor of the "New Town Kolkata Development Authority." payable at Kolkata & same may be documented through e-Filing (Details of which has been narrated in "Instruction to Bidders").

6. Earnest Money: Earnest money of **Rs. 80,000/ (Rupees eighty thousand)** only each respectively to submit in the form of ICICI Bank online/ RTGS/NEFT from scheduled Bank, in favor of "Newtown Kolkata Development Authority" payable at Kolkata balance amount covering 2% of the quoted amount to be submitted in bank draft / pay order at the time of making agreement by the successful tenderer.

7. The FINANCIAL OFFER of the prospective Bidder will be considered only if the Bidder qualifies in the Technical Bid. The decision of the EXECUTIVE ENGINEER[E], NKDA will be final and binding on all concerned and no challenge against such decision will be entertained. The Name of Qualified Bidders will be displayed in the website on the scheduled date and time as specified above.
8. Bids shall remain valid for a period not less than 180 (One hundred eighty) days after the dead line date for Financial Bid submission.
9. The Bidder, at his own responsibility and risk is encouraged to visit and examine the site of works and its Surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for the work as mentioned in the Notice Inviting Tender, before submitting offer with full satisfaction. The cost of visiting the site shall be at his own expense.
10. Technical Bid and Financial Bid both will be submitted concurrently duly digitally signed in the Website <http://wbtenders.gov.in> within the time as specified above.
11. The intending Bidders should clearly understand that whatever may be the outcome of the present invitation of Bids, no cost of Bidding shall be reimbursable by the Department. THE EXECUTIVE ENGINEER[E], NKDA reserves the right to reject any or all the application(s) for purchasing Bid Documents and/or to accept or reject any or all the offer(s) without assigning any reason whatsoever and is not liable for any cost that might have been incurred by any Tenderer at the stage of Bidding.
12. The Earnest Money of all the unsuccessful Tenderers deposited in favor of the “**Newtown Kolkata Development Authority**” along with the Tenders will be refunded through online after completion of the tender process.
13. **The intending tenderers are required to quote the rate online only. No offline tender will be entertained.**
14. **Bidder** shall have to comply with the provisions of (a) the contract labour (Regulation Abolition) Act. 1970 (b), Apprentice Act. 1961 and (c) minimum wages Act. 1948 of the notification thereof or any other laws relating there to and the rules made and order issued there under from time to time.
15. During the scrutiny, if it comes to the notice to the tender inviting authority that the credential(s) and/or any other paper(s) has/have been of any bidder found incorrect/manufactured/ fabricated, that bidder will not be allowed to participate in the tender and that application will be rejected outright. THE EXECUTIVE ENGINEER[E], reserves the right to cancel the Tender due to unavoidable circumstances and no claim in this respect will be entertained.

**PROCEDURE FOR SUSPENSION AND DEBARMENT OF SUPPLIERS,  
CONTRACTORS AND CONSULTANTS**

**A. SCOPE**

The procedure as laid down in subsequent paragraphs shall govern the suspension / debarment of suppliers, contractors and consultants ("contractors" for brevity) involved in government procurement for offenses or violations committed during competitive bidding and contract implementation, for the works under Public Works Department, Government of West Bengal.

**B. PROHIBITION / ON SUSPENDED DEBARRED PERSONS/ENTITIES TO PARTICIPATE IN THE BIDDING OF GOVERNMENT PROJECTS/CONTRACTS OF THE DEPARTMENT.**

A person/entity that is suspended / debarred by a procuring entity shall not be allowed to participate in any procurement process under Public Works Department during the period of suspension / debarment unless the same has been revoked.

A joint venture or consortium which is suspended / debarred or which has suspended / debarred member/s and/or partner/s as well as a person/entity who is a member of a suspended / debarred joint venture or consortium shall, likewise, not be allowed to participate in any procurement process under Public Works Department during the period of suspension / debarment unless the same has been revoked. Up-to-date declaration to be given that the firm has not been debarred through Notary.

(The same must be invariably mentioned in procurement notice.)

**C. DEFINITION OF TERMS: -**

C.1 Bidder: - A Person /Contractor /Agency /Joint Venture /Consortium/ Corporation participating in the procurement process and/or a Person /Contractor /Agency /Joint Venture

/Consortium/ Corporation having an agreement/contract for any procurement with the department shall be referred as bidder.

C.2 Contract implementation: - A process of undertaking a project in accordance with the contract documents.

C.3 Debarment: - An administrative penalty, in addition to the contract provision, disqualifying a bidder from participating in any procurement process under Public Works Department, Government of West Bengal/any other Government Organization for a given period.

C.4 Debarred Bidder: - A Bidder who was disqualified by the competent authority of the Public Works Department, Government of West Bengal/any other Government Organization.

C.5 Offence: - A violation or breach of a law, regulation, laid down procedure, etc.

C.6 Procurement: - It is the act of buying goods, services or works from an external source. It is favorable that the goods, services or works are appropriate and that they are procured at the best possible cost to meet the needs of the acquirer in terms of quality and quantity, time, and location.

C.7 Procuring Entity / Authority: - The officer authorized by NKDA, for procurement.

C.8 Suspension: - Temporary disqualification of a bidder from participating in the procurement process of NKDA for a period of 6(six) months when an offence is made out against a bidder.

**D. GROUNDS FOR SUSPENSION AND DEBARMENT**

D.1. Submission of eligibility requirements containing false information or falsified documents.

D.2. Submission of Bids that contain false information or falsified documents, or the concealment of such information in the Bids in order to influence the outcome of eligibility screening or any other stage of the bidding process.

D.3. Unauthorized use of one's name/digital signature certificate for purpose of bidding process.

D.4. Any documented unsolicited attempt by a bidder to unduly influence the outcome of the bidding in his favor.

D.5. Refusal or failure to post a self-declaration to the effect of any previous debarment imposed by any other department of State Government and / or Central Government.

D.6. All other acts that tend to defeat the purpose of the competitive bidding such as lodging false complain about any bidder, lodging false complain about any officer duly authorized by the department, restraining any interested bidder to participate in the bidding process, etc.

D.7. Assignment and subcontracting of the contract or any part thereof without prior written approval of the procuring entity.

D.8. Whenever adverse reports related to adverse performance, misbehavior, direct or indirect involvement in threatening, making false complaints etc damaging the reputation of the department or any other type complaint considered fit by the competent authority of the department, are received from more than one officer or at more than one occasion from individual officer.

D.9. Refusal or failure to post the required performance security / earnest money within the prescribed time without justifiable cause.

D.10. Failure in deployment of technical personnel, engineers and / or work supervisor having requisite license/ supervisor certificate of competency as specified in the Contract.

D.11. Refusal to accept an award after issuance of "letter of acceptance" or enter into contract with the government without justifiable cause.

D.12. Failure of the contractor, due solely to his fault or negligence, to mobilize and start work or performance within the specified period as mentioned in the "Letter of Acceptance", "Letter of Acceptance cum Work Order", "Work Order", "Notice to Proceed", "Award of Contract", etc.

D.13. Failure by the contractor to fully and faithfully comply with its contractual obligations without valid cause, or failure by the contractor to comply with any written lawful instruction of the procuring entity or its representative(s) pursuant to the implementation of the contract.

D.14. For the procurement of consultancy service/ contracts, poor performance by the consultant of his services arising from his fault or negligence. Any of the following acts by the consultant shall be construed as poor performance.

i. Non deployment of competent technical personnel, competent engineers and or worksupervisors;

ii. Non deployment of committed equipment, facilities, support staff and manpower; and

iii. Defective design resulting in substantial corrective works in design and/or construction;

iv. Failure to deliver critical outputs due to consultant's fault or negligence; and

v. Specifying materials which are inappropriate and substandard or way above acceptable standards leading to high procurement cost.

vi. Allowing defective workmanship or works by the contractor being supervised by the consultant.

D.15. For the procurement of goods, unsatisfactory progress in the delivery of the goods by the manufacturer, supplier or distributor arising from his fault or negligence and/or unsatisfactory or inferior quality of goods, vis a vis as laid down in the contract.

D.16. Willful or deliberate abandonment or non-performance of the project or contract by the contractor resulting to substantial breach thereof without lawful and/or just cause.

#### E. CATEGORY OF OFFENSE: -

E.1. First degree of offense: - Si. No. 4.1 to 4.16 to be considered as first degree of offense.

E.2. Second degree of offence: - Any one of the offences as mentioned under 5.1 above, committed by a particular bidder/contractor/supplier by more than one occasions, be considered as second degree of offense.

In addition to the penalty of suspension / debarment, the bid security I earnest money posted by the concerned bidder or prospective bidder shall also be forfeited.

(The same must be invariably part of the process of evaluation of bids.)

#### F. PENALTY FOR OFFENSE: -

F.1. For committing Degree of offense: - Disqualifying a bidder from participating in any procurement process under NKDA up to 2(two) years.

F.2. For committing Degree of offense: - Disqualifying a bidder from participating in any procurement process under NKDA for a period of 3(three) years.

18. Before issuance of the WORK ORDER, the tender inviting authority may verify the credential(s) and/or other document(s) of the lowest tenderer, if found necessary. After verification, if it is found that the document(s) submitted by the lowest tenderer is/are either manufactured or false, the work order will not be issued in favor of the said Tenderer.

19. If any discrepancy arises between two similar clauses on different notifications, the clause as stated in later notification will supersede former one in following sequence: -

a. Form No. 2911, b. NIT, c. Special terms & Conditioned. Technical bid, e. Financial bid

20. If the dates fall on holidays or on days of bandh or natural calamity, the dates defer to next working days.

21. All tenderers are requested to be present online during opening of tenders positively. In no case his/their absence will stand against holding the same.

22. In case of inadvertent typographical mistake found in the specific price schedule of rates, the same will be treated to be so corrected as to conform with the prevailing relevant schedule of rates and / or technically sanctioned estimate.
23. The intending tenderer is required to quote the rate **inclusive of all taxes and duties in figures as well as in words.**
24. **Conditional / incomplete tender will not be entertained.**
25. The accepting authority reserves the right to reject any or all the tenders without assigning any reason whatsoever and he will not be bound to accept either the lowest tender or any of the tenders.
26. Issuance of work order as well as payment will depend on availability of fund and no claim whatsoever will be entertained for delay of Issuance of work order as well as payment, if any. Intending tenderers may consider these criteria quoting their rates.
27. If any tenderer withdraws his offer before acceptance or refuse within a reasonable time without giving any satisfactory explanation for such withdrawals, he shall be disqualified for submitting tender to NKDA for minimum period of 1(one) year.
28. Clause-25 of the conditions of contract of the West Bengal Form No. 2911 may be treated to be omitted and there is no provision for arbitration for resolution of disputes that may arise out of the contracts to be entered into by the Department with the contractors for the purpose of carrying out execution of public works as per G.O No. 558/SPW dated 13-12-2011 of P.W.D.
29. Successful tenderers will be required to observe the following conditions strictly:
- a) Employees' Provident Fund and Miscellaneous Provisions Act, 1952 and Employees State Insurance Act, 1948 should be strictly adhered to wherever such Acts become applicable.
  - b) Minimum wages to the workers shall be paid according to the rates notified and/or revised by the State Government from time to time under the Minimum Wages Act, 1948 in respect of scheduled employments, within the specified time as per law. Payment of bonus, wherever applicable, has to be made.
30. Guiding schedule of rates: As per PWD (electrical schedule of works). The term "GS" in the BOQ means "Schedule of Rates for Electrical Works, Govt. of West Bengal, Public Works Department, 2017"
31. Where an individual person holds a digital certificate in his own name duly issued to him against the company or the firm of which he happens to be a director or partner, such individual person shall while uploading any tender for and on behalf of such company or firm, invariably upload a copy of registered power of attorney showing clear authorization in his favor by the rest of the directors of such company or the partners of such firm to upload such tender. The power of attorney shall have to be registered in accordance with the provisions of the Registration Act, 1908.
32. The successful bidder has to execute an agreement in West Bengal Form No. 2911 before final acceptance of the work.
33. The successful bidder will be liable to abide by the clause laid in Order No. 177-CRC/2M-57/2008 dated 12.07.2012 of secretary to the Govt. of West Bengal & Order No. 177/1(15)-CRC/2M-47/2008 dated 12.07.2012 of Technical Secretary, Public Works Department.
34. Any intending bidders who have failed to execute more than one works contract under NKDA and was terminated by any sub rule under clause 3 of Tender Form No. 2911 or terminated under any clause of Standard Bidding Document by the Engineer-in-charge/Employer during last 3(three) years will not be eligible to participate in any bid under any Directorate under NKDA for another 2(two) years from the date of imposition of last termination notice by the Engineer-in-charge/Employer.

### 35. INSTRUCTION TO BIDDERS

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

#### 2. Registration of Contractor

Any contractor 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://etender.wb.nic.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.

#### 3. Digital Signature certificate (DSC)

Each contractor is required to obtain Digital Signature Certificate (DSC) for submission of tenders, from the approved service provider of the National Information Centre (NIC) on payment of requisite amount details are available at the Web Site stated in Clause 2 of Guideline to Tenderer DSC is given as a USB e-Token.

a. The contractor can search & download NIT & Tender Documents electronically from computer once he logs on to the website mentioned in Clause 2 using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

b. A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If found to have applied severally in a single job all his applications will be rejected for that job.

#### 4. Submission of Tenders.

General process of submission, Tenders are to be submitted through online to the website stated in Cl.2 in two folders at a time for each work, one in Technical Proposal & the other is Financial Proposal before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non readable formats).

##### A. Technical proposal:

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

##### 1 Statutory Cover Containing

1. Demand Draft/ Bankers Cheque towards cost of tender documents/ original documents as prescribed in the NIT, against work in favor of NKDA.
2. Earnest money (EMD) as prescribed in the NIT against the work in favor of the Executive Engineer[E], NKDA (online)
3. Tender form No. 2911 & NIT with all agenda & corrigendum (download & upload the same Digitally Signed, quoting rate will only be encrypted in the B.O.Q. under Financial Bid. In case quoting any rate in 2911 the tender liable to summarily rejected).
4. Special Terms, condition & specification of

##### works. A-2. Non statutory Cover Containing

1. Pan Card
2. Valid up to date clearance of Income Tax return.
3. Professional Tax Clearance Certificate.
4. Income Tax Acknowledgement Receipt for latest assessment year.
5. Voter ID Card for self-identification to be accompanied with the Technical Bid documents.
6. Valid 15-digit Goods and Services Taxpayer Identification Number (GSTIN) under GST Act, 2017.
7. Registration Certificate under Company Act. (If any).

8. Electrical Supervisors' Certificate of Competency in parts 1,2,7A &11, or Equivalent National Supervisors' Certificate of Competency/ Electrical Contractor's License.
9. Electrical Contractor's License.
10. Registered Deed of partnership Firm/ Article of Association & Memorandum Power of Attorney (For Partnership Firm/ Private Limited Company, if any)
11. Up to date Trade License.
12. Annual turnover of Rs. 50 Lakh (Rupees fifty Lakh) only, and above each financial year 2020-21, 2021-22 & 2022-23 respectively.
13. Applicants should have OEM authorization. Necessary Certificate to this effect to be uploaded.
14. Certificate of Registration" from the respective Assistant Registrar of Co – operative Societies & Clearance Certificate for the Current Year issued by the Assistant Register of Co-Op(S) (ARCS) (for Regd. Unemployed Engineers Co – Operative Society Ltd.)
15. Separate AFFIDAVIT – „Y" declaration has to be uploaded for this particular NIQ. Format attached herewith.
16. Certificate of Debarment.
17. Retention money towards Security deposit @3% on gross payment 1% (One percent) of the value of the work shall be deducted from the running account bill and 2% for EMD as per prevailing order. No interest will be paid on Security Deposit.

**B. Financial proposal**

a. The financial proposal should contain the following documents in one cover (folder) i.e., Bill of quantities (BOQ). The contractor is to quote the rate online through computer in the space marked for quoting rate in the BOQ.

b. Only downloaded copies of the above documents are to be uploaded virus scanned & Digitally Signed by the contractor.

**1. PENALTY FOR SUPPRESSION / DISTORTION OF FACT.**

Submission of false document by tenderer is strictly prohibited & if found action may be referred to the appropriate authority for prosecution as per relevant IT Act with forfeiture of earnest money forthwith.

**2. REJECTION OF BID**

The Employer (tender accepting authority) reserves the right to accept or reject any Bid and to cancel the Bidding processes and reject all Bids at any time prior to the award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the ground for Employer's (tender accepting authority) action.

**3. 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. The Letter of Acceptance will constitute the formation of the Contract. The Agreement in W.B.F.No.-2911 will incorporate all necessary documents e.g. N.I.T., all addenda-corrigendum, special terms & condition, Schedule of works (B.O.Q.) and the same will be constituted between the Ten.

**36. Scope of Work:**

- i. Supply, Installation, Commissioning, & Maintenance of 10kW Bharat AC-001 Electric Vehicle (EV) Public Chargers for 2/3-Wheeler EVs at Different Locations under NKDA, New Town, Kolkata with Three Years' Comprehensive Maintenance.
- ii. System operation is automatic in nature. Plugging in the personal on-board/off-board charger with the Bharat AC-001 Public Charger for vehicle battery charging shall be done by the owner of the vehicle, and billing shall be as per standard procedure and guidelines provided by NKDA.



- iii. Chargers are manageable in an unmanned/smart way using a smartphone application (App) (which will be provided by the installer). The payment gateway will be provided by NKDA, which is to be mapped to the App provided by the installer.
  - iv. In app-based payment process:
    - a. Money collected on behalf of NKDA from the EV user shall be remitted to the NKDA bank account after charging and the balance amount will be shown in the user's wallet. In case of any technical error then it must hit T+1 day to the NKDA account. T is the transaction.
    - b. Wallet money security must be provided by bidder.
    - c. A master user ID & password must be provided for dashboard monitoring and change of EV tariff.
    - d. No Extra cost will be provided for using the application wallet.
  - v. A prominent tower display must be installed at the entrance of the chargers, akin to towers displayed at the EV charging location. The display should specify the configurations of chargers available along with the charging rates. The tower should be about 4 meters tall.
  - vi. The chargers will have a signage/banner in a standard design as provided by the NKDA. The banner will be prominently located in an area of high visibility near the entrance. EV charger user guidelines will be displayed at every charging location.
  - vii. EV Charger Installation location (Latitude, Longitude) will be provided by NKDA at the time of work execution.
  - viii. All EI work in BOQ must be done as per PWD schedule guidelines.
  - ix. The bidder has to supply application software as per mentioned features in tender. The bidder shall host the application software on cloud environment.
  - x. The bidder shall provide comprehensive training and orientation of application software to NKDA concerned officials at NKDA office
  - xi. Application solution should provide APIs to connect to Centralized Smart City Digital Platform to enable device data to be collected and facilitates cross- domain use case by Smart City Digital Platform.
  - xii. Application Solution Should support the following standards such as Web sockets, REST APIs and typical formats like HTML, JSON etc to have integration with Smart City digital Platform.
  - xiii. The system should provide all the APIs information to Smart City Digital Platform vendor and should own the integration and deployment efforts along with Smart City Digital Plat form vendor to aggregate the Smart Lighting services on Smart City Digital Platform dashboard.
  - xiv. The system should be controllable from proposed Command and Control Centre for which the bidder shall make necessary arrangement for integration.
37. Payment Mode as follows:
- i. 60%Payment will be made on successful commissioning of fast electric vehicle chargers in working condition as per specification and complete installation and working of the application software to the satisfaction of EIC
  - ii. 40% Payment will be released in yearly installments during the 3 years of post-warranty maintenance subject to satisfactory service which may be monitored against a mutually agreed Service Level Benchmarking
38. The tender document consists of:
- I. Bharat EV Charger specification Technical Specifications.
  - II. WBF2911.
  - III. Feeder pillar specification

Copy forwarded for information to: -

1. The Chief Executive Officer, New Town Kolkata Development Authority.
2. The Chief Engineer, New Town Kolkata Development Authority.
3. The Finance Officer, New Town Kolkata Development Authority.
4. The Assistant Engineer (E), New Town Kolkata Development Authority.
5. The Sr. Accountant / Cashier, New Town Kolkata Development Authority.
6. P.A to the Chairman, New Town Kolkata Development Authority.
7. Official Website of New Town Kolkata Development Authority ([www.nkdamar.org](http://www.nkdamar.org))

**Executive Engineer (E)**  
**New Town Kolkata Development Authority**

**AFFIDAVIT – “Y”**

**(To be furnished in Non-judicial Stamp Paper of appropriate value duly notarized)**

1. I, the undersigned, do certify that all the statements made in the attached documents for the work” .....”(Name of work, tender of which invited) are true and correct. In case of any information submitted proved to be false or concealed, the application may be rejected and no objection / claim will be raised by the undersigned.
2. The undersigned also hereby certifies that neither our firm. ....nor any of constituent partner had been debarred to participate in tender by any Government Department during the last 05 (Five) years prior to the date of this NIT.
3. The undersigned would authorize and request any Bank, person, Firm or Corporation to furnish pertinent information as deemed necessary and / or as requested by the Department to verify this statement.
4. The undersigned understand that further qualifying information may be requested and agrees to furnish any such information at the request of the department.
5. Certified that, I have applied in the tender in the capacity of individual / as a partner of a firm &i have not applied severally for the same job.

Signed by an authorized officer of the firm

Title of the Officer Name of Firm with Se

Bharat EV Charger Specifications

**PUBLIC Bharat AC EV CHARGERS (BEVC-AC001) SPECIFICATIONS:**

#	Parameter	Requirement
<b>General Requirements</b>		
1	EVSE Type	AC
2	Energy Transfer Mode	Conductive
<b>Input Requirements</b>		
1	AC Supply System	Three-Phase, 5 Wire AC system (3Ph.+N+PE)
2	Nominal Input voltage	415V (+6% and -10%) as per IS 12360
3	Input Frequency	50Hz, ±1.5Hz
4	Input Supply Failure backup	Battery backup for minimum 1 hour for the control system and billing unit. Data logs should be synchronized with CMS during back up time, in case battery drains out.
<b>Environmental Requirements</b>		
1	Ambient Temperature Range	<0 to >55°C
2	Ambient Humidity	5 to 95%
3	Ambient Pressure	86 kpa to 106 kpa
4	Storage temperature	<0 to >60°C
<b>Mechanical Requirements</b>		
1	Suggested Cable Security	PMAO and the vehicle connector outlet to have provision for locking mechanism during charging to ensure the safety of the cable
2	Mechanical Stability	Shall not be damaged by mechanical impact energy: 20 J (5 kg at 0.4 m)
3	IP Ratings	>=IP 54
4	Cooling	Air cooled or forced air cooled to protect the equipment against temperature hazards
<b>Output Requirements</b>		
1	Number of outputs	3
2	Type of each output	230V (+6% and -10%) single phase, 15A as per IS 12360A.C.
3	Output Details	3 Independent charging sockets given in Annex-A or 16-amp waterproof 3pin socket as per EIC required.

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4	Output Current	Three Vehicles charging simultaneously, each at 15A current
5	Output Connector Compatibility	IEC 60309
6	Limiting output current	Circuit breaker for each outlet limited to 15A current output. Breaker should be reset to resume operation
7	Connector Mounting	Angled connector mounted looking downwards for outdoor use
8	Isolation	Between Input & Output; Between all outlets with proper insulation
<b>User Interface &amp; Display Requirements</b>		
1	ON- OFF (Start-Stop) switches	Simple Push button type
2	Emergency stop switch	Mushroom headed Push button type (Red color)
3	Visual Indicators	Error indication, Presence of input supply indication, Charge process indication and other relevant information
4	Display & touch-screen size	Minimum 6 inches with 720 x 480 pixels
5	Display Messages	EVSE should display appropriate messages for user during the various charging states like <ul style="list-style-type: none"> <li>• Vehicle plugged in / Vehicle plugged out</li> <li>• Idle / Charging in progress - SOC</li> <li>• Fault conditions; metering: units consumption; Duration since start of charge, Time to charge, kWh</li> </ul>
6	User Authentication	Using mobile application or User interface (OCPP gives only a field mandate, media to be used is open)
7	Metering Information	Consumption Units
<b>Billing &amp; Payment Requirements</b>		
1	Metering	Metering as per units' consumption for charging each vehicle
2	Billing	Grid responsive billing
3	Payment	BHIM and Bharat QR compliant mobile application payment
<b>Communication Requirements</b>		
1	Communication between EVSE and Central Server	Open Charge Point Protocol (OCPP) V1.6 protocol or above. Should be upgradable to next version of OCPP whenever it is released including OCPP 2.0 which is a draft version now. Should enable handshaking between EVSE and CMS for discovery. It should authorize the operation, before electric vehicle can start or stop charging. EVSE should respond to CMS for various queries and commands like reservation, cancellation.
2	Metering	Grid responsive metering as per units' consumption of each vehicle
3	Interface between charger and central management system (CMS)	Reliable Internet Connectivity (e.g., 10/100 base-T ethernet (Stander), optical GSM Modem(3G/4G) and Wireless (Optional))

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Protection & Safety Requirements		
1	Safety Parameters	Safety and protection to be ensured for India specific environment (As per AIS 138 Part1)
2	Start of Charging	The outlet will be locked and covered, the connector will be exposed to charging only after user authentication using user interface or mobile application. Only when the lock opens and connector is properly connected, the switch/relay will turn ON to feed power to EV. Lock will be opened only after full charging and authentication by user or the operator. Once disconnected, the charging session terminates
3	Power failure	If there is a power failure, user is indicated about this. The charging resumes when power comes on. If the user wants to terminate the session during power failure, the user can shut-off the switch and remove the plug
4	Interruption of Charging	<p>O Connector terminals to be mounted with temperature sensors to avoid burning of connectors. Safety mechanism to trigger switching off the charging at temp. &gt;80°C. In such situation, an appropriate signal will be sent to turn the switch/relay OFF to stop the charging. Once disconnected, the charging session terminates.</p> <p>O If the above locking mechanism is mandated then the following point won't be required: If plug is taken out (for more than 2 seconds) and then reinserted for charging, the charging-session will disconnect. A new session will be required to continue charging to ensure that no one can remove a vehicle being charged and insert their own cable and use the infrastructure without paying or at someone else's account</p>
5	warranty / guarantee	comprehensive warranty / guarantee shall remain valid for 36 months after the goods have been delivered and commissioned.
6	Charger Stand / Canopy for Charger	As per Indian standard foundation and requirements stand will be provided. Every Charge should be covered by a canopy to protect it from adverse weather conditions.

## Bharat EV Charger Specifications

### References:

The following referenced documents are indispensable for the application of this document.

For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

**IEC 61851-1: Edition 2.0 2010-11**, Electric vehicle conductive charging system—Electric vehicle conductive charging system –Part 1: General Requirements

**IEC 61851-23: Edition 1.0 2014-03**, Electric vehicle conductive charging system—Electric vehicle conductive charging system –Part 23: DC electric vehicle charging station

**IEC 61851-24:2014**, Electric vehicle conductive charging system—Part 24: Digital communication between a DC EV charging station and an electric vehicle for control of DC charging

**IEC 62196-3**, Plugs, socket-outlets, and vehicle couplers—Conductive charging of electric vehicles –Part 3: Dimensional compatibility and interchangeability requirements for DC and AC / DC pin and tube-type contact vehicle couplers

**ISO 11898-2**, Road vehicles—Controller area network (CAN)—Part 1: Data link layer and physical signaling

**IEC 60364-5-54:2011**, Low-voltage electrical installations—Part 5-54: Selection and erection of electrical equipment – Earthing arrangements and protective conductors

**IEC/TS 60479-1:2005**, Effects of current on human beings and livestock - Part 1: General aspects

**IEC 60950-1:2005**, Information technology equipment - Safety - Part 1: General requirements Amendment 1:2009, Amendment 2:2013

**IEC 61140**, Protection against electric shock—Common aspects for installation and equipment

**IEC 61557-8**, Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 VDC –Equipment for testing, measuring or monitoring of protective measures – Part 8: Insulation monitoring devices for IT systems

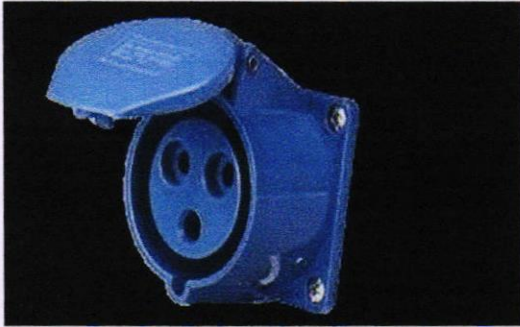
**IEC 61558-1:2005**, Safety of power transformers, power supplies, reactors and similar products—Part 1: General requirements and tests

## Bharat EV Charger Specifications

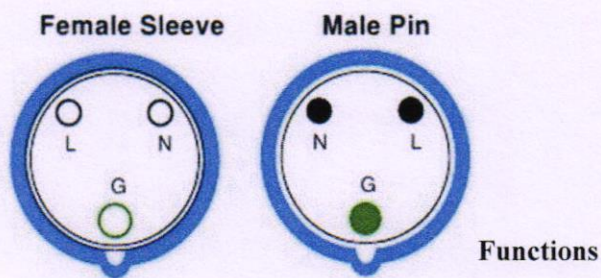
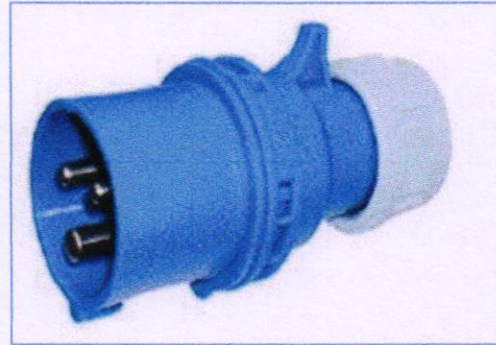
### ANNEX A: Output Connector for PMAO

**AC Slow:** The connector on the PMAO side and the mating connector are as below:

#### IEC 60309 Female Connector (PMAO side)



#### IEC 60309 Male Connector (Cable with EV)



#### Pins

1	L
2	N
3	Protective Earth

For details, refer **IS 60309(Part 1): 2002/ IEC 60309-1:1999**, Plugs, socket-outlets and couplers for industrial purposes – Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories.

#### Cable Assembly for AC Slow Charging

Type of cable assembly for charging option in AC slow is Cable B, which has an industrial plug IEC 60309 (15 A, single-phase) on the PMAO side and a suitable charging connector on the vehicle side.



## Outdoor Feeder Pillar Specification:

Supply, Erection, Testing and commissioning of double door feeder pillar (With Suitable foundation) outdoor type, stand mounting, dust and vermin proof feeder pillar with IP-55 protection. The panel shall be made out of 14 SWG Cold Rolled Close Annealed (CRCA) Sheet Steel. Panel shall have 2 coat of zinc chromate primer and 2 coat of epoxy paint both inside and outside. Cable entry shall be at the bottom and through a detachable gland plate of minimum thickness 8mm. Feeder pillar shall have pad-locking arrangement. The dimensions of the panel shall be at least 900mm (L) X 400mm (B) x 1500mm(H). Panel should be constructed by CPRI certified fabricators. Necessary arrangements should be made for inspection of feeder pillar.

### Incomer:

250A FP 25KA/35KA MCCB as per GS (Make- L&T/Legrand/ABB)

Bus Bar1: 4X65X13mm 415A Al Bus bar of 0.5m length as per PWD specifications.

Bar2: 4X50X5mm 200A Al Bus bar of 0.5m length as per PWD specifications.

### Outgoings:

- a) Supply & Fixing 415V 63A FP 10KA & C Curve MCB on din rail (L&T/Siemens/Legrand/ABB)- 03 nos.  
[For EV charger]
- b) Supply & Fixing 415V 32A FP 10KA & C Curve MCB on din rail (L&T/Siemens/Legrand/ABB)- 01 nos.  
[For light]

Note: Incorporate MNX110 FP contractor and time switch as per direction of EIC  
(Make: L&T/Siemens/ABB/Legrand)

### CABLE ALLEY:

cable alleys on both sides for outgoing connection are to be made incl. S & F suitable nos of Brass Studs type connector on insulated chair having current carrying capacities as per the outgoing switches rating. Inter connection with the M S & Stud connectors is to be made with suitable size stranded copper wire & copper bars as per the switch rating as specified in Interconnection.

### INTERCONNECTION:

Inter connections to be made same with

a. 4X50X10mm Al strip from Main bus bar of 415A to 320A Incomer MCCB.

b. 4X20X5mm Al strip from Bus Bar of 415A to 32A Outgoing MCB.

c. Metering circuit with 1.5 sq mm single core stranded FR PVC copper wire (Make - RR/Havells/Finolex/Polycab) with proper copper socketing & taping (R Y B & N).

### READING ARRANGEMENT:

a)Supply & Fixing 0-500V( L&T/ABB/AE/Similar)..1 No

b)Supply & Fixing 0-300A( L&T/ABB/AE/Similar) .. 1No

c) 250A/5A CT Coil (Kappa Make) - 03 nos

d) LED type indicating lamp (R Y B ) - 03nos [L&T/ABB]

e) Toggle switch (for on/off indicting lamps) ---03 nos[L&T/ABB]

f) 2A SPMCB, "C" curve [L&T/ABB] --- 03nos

g) danger board (150mmX100mm) -- 01 Nos

h. IEC Standards energy meter: 3 phase 4 wire type suitable for connection to LT 3 x 240V, 3 phase 4 wire systems.  
(L&T/ Similar)