

REQUEST FOR EXPRESSION OF INTEREST

WBSEDCL is seeking proposals from interested **agencies / entities /Electric Vehicle Charging Station/ Battery Swapping service providers**) for setting up EV Charging / Battery Swapping Stations at WBSEDCL owned premises. Land will be provided on revenue sharing basis.

This EOI document lays out the details of qualification criteria, submission requirements, brief objective, Scope of work and evaluation criteria etc.

1. Introduction

Power Department, Government of West Bengal issued Electric Vehicle Policy 2021 (No: 189-POW-2021 date: 3rd June'2021) in which state will target to be the best state in electric mobility penetration by 2030 and target to have 10 lakh EVs, combined across all segment of vehicles, during the policy implementation. WBSEDCL has been designated as the "State Nodal Agency" for setting up Charging Infrastructure for Electric Vehicle vide notification no. 51-PO/O/C-III/4M-27/2017 Dated 12.03.2019. By this time, with due approval of WBERC, specific Tariff for EV Charging station's service connection has also been issued vide Notification No. WBSEDCL/EV Tariff/2019-20 dated 24.01.2022 under the signature of CE, Regulation, WBSEDCL. Because of the vast infrastructure needed to charge electric vehicles (EVs), utilities hold the keys to accelerating their deployment. By accelerating EV deployment, utilities can increase energy demand and revenue growth. Charging infrastructure will play a pivotal role on EV deployment, and, in the absence of a proactive plan and schedule, is a major impediment to mass market adoption. Infrastructure limitations are particularly pertinent to EVs due to their sole dependency on electricity. The charging infrastructure includes all of the hardware and software that ensures energy is transferred from the electric grid to the vehicle. Charging locations combined with an acceptable charging time strategy encourages better use of Electric Vehicles by general public in West Bengal.

2. Purpose of EOI

The stage of EOI is undertaken as an industry consultation to determine credible applicants having requisite capability for undertaking the Scope of Work, to provide Expression of Interest (EOI) For "Supply, Installation, Operation and Management of Electric Vehicle Charging Station / Battery Swapping station at WBSEDCL own land ". Their inputs on the key parameters to be adopted by WBSEDCL like procurement mode, revenue sharing model etc. which would help determining the terms and conditions of the RFP. The inputs received from the Interested Bidders shall be consolidated and shall be required for finalization of the RFP.

The information regarding the RFP made in this EoI is indicative in nature and purely informative, and non-binding. WBSEDCL reserves the absolute right to cancel, change, alter or replace the EoI or the RFP Stage and its Bidding Process and/or the whole Project itself, without any reason thereof or providing any prior notice to any person including the applicants or bidders, as the case may be.

3. Scope of work

Supply, Installation, Operation and Management of Electric Vehicle Charging Station/ Battery Swapping stations at their cost at WBSEDCL own land along with mentioning the amount to be paid (minimum @ Rs. 1.00 per unit of electricity) to WBSEDCL for providing land on revenue sharing basis.

The tentative WBSEDCL owned locations across West Bengal under WBSEDCL Jurisdiction is

enclosed as Annexure-I. Approximate Area/Space to be provided for setting up EV Charging / Battery Swapping Stations are also furnished against each location in Annexure I.

Maximum Contractual demand per connection: upto 200 KVA
EV Chargers shall support 2 Wheeler, 3 Wheeler or 4 Wheeler.

The selected agency shall

- a. Plan, Design, Develop, Invest in, Operate and Maintain the interoperable Electric Vehicle Chargers / Battery Swapping systems along with its associated infrastructure for 2 wheeler, 3 wheeler or 4 wheeler. Manage the business in an unmanned / smart way.
- b. Necessary electrical infrastructure upto 200 KVA load demand for EV charging station's connection shall be developed by WBSEDCL at each location. Necessary cost for effecting service connection from LV side of distribution transformer to meter along with security deposit is to be paid by the agencies/ entities as per applicable rate for the quantum of power.
- c. Timely Pay Monthly Electricity bill of the EV Charging/ Swapping Station set up as per applicable tariff of WBSEDCL for electric vehicle charging stations.
- d. Extend all necessary support to WBSEDCL for smoother and faster creation of EV charging station in West Bengal. Engage network service provider for providing on line information of the location & other parameters of public Charging Station as per guidelines of MoP in consultation with WBSEDCL
- e. Utilize the space only for the purpose of Public Charging stations / Battery Swapping systems of EVs. No other activities will be allowed at the locations.
- f. Bear the cost associated with civil works for public charging station/Battery swapping systems of EVs (e.g- cost related to demarcation of the space /land, separate entry/ exist and other allied works as per requirement of site).

4. **Earnest money deposit / bid security** shall be Rs. 36,500.00 (Rupees Thirty six thousand five hundred) per location at the time of submission of RFP.

Performance Security: The successful bidder of RFP shall have to deposit performance security of Rs. 54,750.00 (Rupees Fifty four thousand seven hundred fifty) per location for the performance of the contract before signing of contract agreement or as per clause in the RFP.

5. Service charges

Rate of service charges for public EV charging to be mentioned / quoted rationally subject to allowable maximum rate @ Rs. 15.00 per KWH or the rate defined in the guideline of state of WB/ GoI.

6. Charging station specifications

Electric Vehicle Supply Equipment (EVSE) shall comply with Bharat DC-001 or Bharat AC-001 or CCS2 / CHAdeMO / Type2 AC (IS17017) specifications or proprietary standards. The participant shall also bring in their proprietary Battery Swapping Stations compatible with the Vehicles plying in the market. However, the equipment proposed shall have been certified for prevailing and applicable safety standards. Guideline of Govt. regarding charging station specification if issued in future shall also be followed.

7. Engagement period

The selected Electric Vehicle Charging Station/ Battery Swapping service providers shall have engagement period of 5 (five) years initially and may be extended based on mutual agreement for further 5 (five) years.

General information

a. Scope of Application

WBSEDCL intends to receive EOI from eligible entities for the project in order to finalize the RFP. The Applicant shall submit its application in the form and manner specified in this EoI. The interested agencies shall submit their proposal and the mode of implementation of the project etc. as per this EoI. Based on the response to this EoI and discussions with the Interested Bidders, the RFP shall be prepared and shall be floated for the procurement through the National Competitive Bidding. The successful bidder emerging from such selection process shall be required to enter into an agreement with WBSEDCL. The detailed scope of work shall be mentioned in the RFP which is expected to be published post completion of the EoI process.

b. Eligible Applicants

For participation in the bidding process and submitting Proposals, Bidders should be of one of the following types of entities/firms - Private, Public or Government owned legal entity.

A Bidder that is under a declaration of ineligibility by Government of West Bengal or any other Government authority in India at the date of submission of the Proposal or during evaluation of Proposals shall be disqualified. All Bidders shall provide an undertaking declaring continued eligibility satisfactory to WBSEDCL.

The Applicant shall be a valid legal entity duly incorporated or registered as per the country of its incorporation / registration. It shall be legally competent to enter into contracts as per prevailing Indian law. The Applicant, if a resident of India, may be either:

- i. A company incorporated under the Indian Companies Law i.e. the Companies act 1956 or 2013 (as amended or re-enacted and restated and notified from time to time), (copy of certificate of incorporation, and charter documents including the most recent Memorandum and Articles of the Association of the Applicant should be submitted).
- ii. Limited liability partnership duly incorporated under the Limited Liability Partnership Act, 2008 (copy of registered partnership deed should be submitted, including any amendments or supplements thereto).
- iii. Partnership firm registered the Indian Partnership Act (copy of registered partnership deed should be submitted, including any amendments or supplements thereto).
- iv. A registered Proprietary firm in India

8. Criteria for Evaluation

Technical

- a. The Applicant Firm should be registered with appropriate Authority/Authorities under Government of India prior to the Application Submission date (supporting documents to be provided). The applicant must

be fully conversant with the Government of India Guidelines i.r.o. Charging Infrastructure for Electric Vehicle(EV) issued vide Circular No. 12/2/2018-EV(com No.244347) dated 14th January 2022 by Ministry of power, Govt of India, and must have a valid document, establishing their business. A scanned copy of the aforesaid Guidelines and Standards is being appended along with this document.

- b. The Applicants firm preferably be experience in automobile sector\e-mobility\business & operation of EV charging infrastructure.

Applicant will have to furnish a list of assignments including similar nature of works, if any, performed by them with documentary evidence.

Financial

The Applicant Firm should have a Minimum Average Annual Turnover (MAAT) of Rs. 1,00,00,000.00 (Rupees One Crore) in any three available financial years out of last five Financial years and a positive net worth as on date of bid submission. Annual Accounts to be duly certified by Chartered Accountant. The above MAAT of Rs. 1,00,00,000.00 (Rupees One Crore) is applicable upto 5 locations. Beyond 5 locations, Rs. 20,00,000.00 (Rupees twenty lakhs) for each locations should be added with Rupees one Crore.

Number of Applications

Each Applicant may submit application for a single location or multiple locations. Bidding of price on revenue sharing basis would be made for each location.

9. Acknowledgement by Applicant

It is desirable that each Applicant submits its application after collection of required information and analysis or any other matter considered relevant by it. It would be deemed by submission of the Application that:

- i. Applicant has received all relevant information requested from WBSedCL; and
- ii. Applicant has made a complete and careful examination of the EoI Document;
- iii. WBSedCL shall not be liable for any mistake or error on the part of the Applicant in respect of above.

10. Key Suggestions about business model & Methodology

Workable comments and suggestions on the Scope of Work that could overall improve the quality/effectiveness of this project shall be considered by WBSedCL at its own discretion. Firm may give their suggestions in Annexure - C.

11. Completeness of the EoI Response

Applicants are advised to study all instructions, forms, terms, requirements, inspection /information about enlisted sites and other information in the EoI documents carefully. Submission of bid shall be deemed to have been done after careful study and examination of the EoI document with full understanding of its implications. The responseto this EoI should be full and complete in all respects. Failure to furnish all information required by the EoI document or submission of a proposal not substantially responsive to the EoI documents in every respect will be at that applicant's risk and may result in rejection of their proposal.

12. EoI Preparation Cost

The applicant is responsible for all costs incurred in connection with participation in this process, including, but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/discussions/presentations, preparation of its Application, in providing any additional information required by WBSedCL to facilitate the Application process. WBSedCL will in no case beresponsible or liable for

those costs, regardless of the conduct or outcome of the bidding process.

13. Language of proposal

All correspondence and documents relating to the EoI shall be written in English language only, provided that any printed literature furnished by the participant written in any other language so long as accompanied by an authenticated English translation of its pertinent passages. Failure to comply with this, may lead to disqualification of the bid. For purposes of interpretation of the EoI English translation shall govern.

14. Submission of REoI documents

Interested bidders shall submit their proposals online in www.wbtenders.gov.in on or before 18.08.2022, 12:00 hrs.

15. Documents to be submitted by participants

The Application shall include the following requisite documents and necessary supporting documents as specified in EOI which contains -

- i. Applicants should submit one copy of the Application (**Annexure A**) including the information requested in the prescribed formats along with supporting document.
- ii. Details of the Firm (**Annexure -B: Schedule- 1,2,3**)
- iii. The Bidder must submit the Eligibility criteria checklist with due reference to the supporting documents as provided in their Expression of Interest (**Annexure- D**).
- iv. Key suggestion if any (**Annexure-C**)

16. Format of proposals

- a. List of locations along with proposed approx. area to be rented is mentioned in Annexure I. Interested Applicants shall submit the proposals for the interested locations in the Format annexed as Annexure-II. Necessary physical verification of site & technical feasibility study shall be done by the applicant before submission of the proposal. The proposals shall be submitted, on or before the last date and time of submission of proposals. Necessary physical verification & technical feasibility study of site should be done before submission of the proposal.
- b. The information and documents shall be submitted by the Participants as per the guidelines, formats, schedules, fees, and other specification in this Section, as well as this document in general.

17. Evaluation of EoI

The information provided may be considered and may contribute to the formulation of the proposed RFP. WBSEDCL may optionally invite Applicants to make a presentation on their Concept proposed in project brief and their inputs as part of the consideration. The feedback received may be considered for formulating the actual RFP. WBSEDCL may require verbal/written clarifications from the Applicants to clarify ambiguities and uncertainties arising out of the information submitted.

18. No Obligation to Issue an RFP

WBSEDCL shall be under no obligation to issue a Request for Proposals (RFP) for the Project described in this EoI.

19. Right to Cancel the EoI Process

a) Notwithstanding anything contained in this EOI Document, WBSEDCL reserves the right to accept or reject any Application or to annul the Short listing Process or reject all applications at any time, without assigning any reasons whatsoever and will not be liable to compensate any applicant on any grounds whatsoever. The applicant shall not be entitled to refund of cost of documents or other costs if any in case the EOI is cancelled for whatsoever reason or without assigning any reason.

b) WBSEDCL may cancel this EOI process at any stage without assigning any reasons whatsoever and will not be liable to compensate any Applicant on any grounds whatsoever. The Applicants shall not be entitled to refund of cost of documents or other costs if any in case the EOI is cancelled for whatsoever reason or without assigning any reason.

20. Amendment of EoI Document

At any time prior to the Application Due Date, WBSEDCL may, for any reason, whether at its own initiative or in response to clarifications requested by an Applicant, modify the EOI Document by the issuance of Addendum. In order to provide the Applicants a reasonable time to examine the Addendum, or for any other reason, WBSEDCL may, at its own discretion, extend the Application Due Date.

21. Clarifications

An Applicant requiring any clarification on the EOI Document may request WBSEDCL online through mail at Email: ceprojiii@wbasedcl.in for Clarification of the interested applicant shall be discussed in the pre proposal meeting. WBSEDCL would Endeavour to respond to the queries on or before 7 days of bid due date. The responses will be uploaded in www.wbtenders.gov.in.

22. Nodal officer

For any additional information/queries pertaining to this REoI, the following Officers may be contacted:

- a) Sri P. K. Nayek, Chief Engineer, Dist. Project-III, Phone no- 8900793566
- b) Sri B. Mallick, Superintending Engineer(E), Dist. Project-III, M-8900793561
- c) Sri Buddhadeb Dutta, Superintending Engineer(E), R&EM Cell, M-8900793576

Chief Engineer
Dist. Project III
WBSEDCL

Ref:

dated

To,

Chief Engineer

Project III

West Bengal State Electricity Distribution Company Ltd.

Bidyut Bhawan, Block - DJ, Sector - II,

2nd floor, C Block

Bidhannagar, Kolkata - 700091

Sub: Expression of Interest (EoI) For "Supply, Installation, Operation and Management of Electric Vehicle Charging Station in WBSEDCL owned land.

Dear Sir,

With reference to your EoI document dated_____, I/we, having examined the EoI document and understood its contents, hereby submit my/our Bid for the aforesaid project.

1. The Bid is unconditional and unqualified.
2. I/ We acknowledge that the Authority will be relying on the information provided in the Bid and the documents accompanying such Bid for selection of the Agency for the aforesaid project, and we certify that all information provided in the Bid and in Annexes is true and correct; nothing has been omitted which renders such information misleading; and all documents accompanying such Bid are true copies of their respective originals. This statement is made for the express purpose of our selection as an Agency for the management of the aforesaid Project.
3. I/ We shall make available to the Authority any additional information it may find necessary or require to supplement or authenticate the Bid.
4. I/ We acknowledge the right of the Authority to reject our Bid without assigning any reason or otherwise and hereby waive to the fullest extent permitted by applicable law our right to challenge the same on any account whatsoever.
5. I/ We certify that in the last five years have neither failed to perform on any contract, as evidenced by imposition of a penalty by an arbitral or judicial authority or a judicial pronouncement or arbitration award, nor been expelled from any project or contract by any public authority nor have had any contract terminated by any public authority for breach on our part.
6. I/ We declare that:
 - a. I/ We have examined and have no reservations to the Bidding Documents, including any Addendum issued by the Authority;

- b. I/ We do not have any conflict of interest in accordance with the EoI document;
- c. I/We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, in respect of any tender or request for proposal issued by or any agreement entered into with the Authority or any other public sector enterprise or any government, Central or State;and
- d. I/ We hereby certify that we have taken steps to ensure that in conformity with the provisions of the EoI document, no person acting for us or on our behalf has engaged or will engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice and; the undertakings given by us along with the Bid in response to the EoI for the Project are true and correct as on the Bid Due Date and we shall continue to abide by them.
- e. I/ We understand that the Authority may cancel the Bidding Process at any time and that the Authority is neither bound to accept any Bid that it may receive nor to invite the Bidder to Bid for the Project, without incurring any liability to the Bidders, in accordance with the EoI document.
- f. I/ We believe that we satisfy(s) the Technical Capacity and Financial Capacity criteria and meet(s) all the requirements as specified in the EoI document and are/ is qualified to submit a bid.
- g. I/We certify that in regard to matters other than security and integrity of the country, we have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which could cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.
- h. I/We further certify that in regard to matters relating to security and integrity of the country, we have not been charge-sheeted by any agency of the Government or convicted by a Court of Law.
- i. I/We further certify that we are not barred by the Central Government/ State Government or any entity controlled by it, from participating in any project and no bar subsists as on Bid Due Date
- j. I/ We undertake that in case due to any change in facts or circumstances during the Bidding Process, we are attracted by the provisions of disqualification in terms of the

provisions of this Request for Proposal; we shall intimate the Authority of the same immediately.

- k. I/ We undertake that in case due to any change in facts or circumstances during the Bidding Process, we are attracted by the provisions of disqualification in terms of the guidelines referred to above, we shall intimate the Authority of the same immediately.
- l. I/ We hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority in connection with the selection of the Bidder, or in connection with the selection/Bidding Process itself, in respect of the above-mentioned project and the terms and implementation thereof.
- m. I/ We agree and undertake to abide by all the terms and conditions of the EoI document.

In witness thereof, I/we submit this Bid under and in accordance with the terms of the EoI document.

Yours Faithfully

Signature

Name

Designation of Authorized Signatory

Date:.....

Place :

Formats for submission of Request for Expression of Interest**Schedule 1: Details of the Firm**

Name of the Firm	
Registered office	
Postal address	
Tel./Fax/e-mail	
Type of Firm (Work area that the firm is involved in)	
Details of directors, etc.	
Details of registration of firm / company etc.	
Authorized Signatory Name: Designation: Qualification: With the company since: Line of experience/ expertise:	
Submit the Audit account details for the last five financial years	
Copy of PAN, GST registration, certificate should be submitted	

Signature of Authorized Representative*² (with seal)

Note: The form has to be submitted by the Person who is Authorized by the Firm and have the Power of Attorney. Attached certified copies of relevant documents below this form only

Schedule 2: Financial Capacity of the Bidder

Annual turnover data	
Year	Amount in INR
2020-21	
2019-20	
2018-19	
2017-18	
2016-17	
Average Annual Turnover i.r.o. 3 available FYs out of above five FYs	

Signature of Authorized Representative (with seal)

Schedule 3: Technical Capacity of the Bidder

1	Project Name:	
2	Name of Bidder:	
4	Project Location:	
5	Capacity of Charging Station	
6	Start Date (Month/Year):	
7	Whether ongoing (Yes / No):	
8	If completed, date of completion: (DD/MM/YYYY)	
9	Detailed Narrative Description of Project:	
11	Value of Services (INR) per year:	
12	Name of Client:	
13	Client Contact Details:	

Signature of Authorized Representative (with seal)

Sl no	Eligibility criteria	Supporting documents required	Documents attached (Yes/No)	Enclosure no.
1	The agency shall be registered company under company act 1956/2013 OR LLP/Partnership/proprietorship firm in India and should be in existence for over 3 years on EoI published date.	Certificate of Incorporation, Service Tax Registration, Sales Tax Registration (TIN) and PAN card		
2	The bidder should have sound financial condition and capability to invest in the EV charging infrastructure business	Supporting document required in form of Balance sheet of any three available financial years out of last five Financial years. Self Undertaking, CA certificate, Banker Report etc, Annual Accounts to be duly certified by Chartered Accountants.		
3	Letter Comprising the Qualification Proposal	Annexure A		
4	Details of the Firm	Annexure B (Schedule- 1)		
5	Financial Capacity of the Bidder	Annexure B (Schedule- 2)		
6	Technical Capacity of the Bidder	Annexure B (Schedule- 3)		
7	Key Suggestions about business model & Methodology	Annexure C		

Signature of Authorized Representative (with seal)

Key Suggestions about business model & Methodology

Signature of Authorized Representative (with seal)

FORMAT FOR SUBMITTING PROPOSALS

Sl. No.	Name & Address of Location	Type of charger(s) / swapping equipment	Connector Type & Power Rating	Power requirement (kW)	Required Space (length x width) in ft x ft	No. of vehicles to be charged at a time	Whether provision can be made for separate entry /exit (yes/no)
1							
2							
3							
4							

Signature of Authorized Representative (with seal)

Example:

Sl. No.	Name & Address of charger(s) / swapping Equipment	Connector Type & Power Rating	Power Requirement (kW)	Required Space (length x width) in ft x ft	No. of vehicles to be charged at a time	Whether provision can be made for separate entry /exit (yes/no)
1	Bidhannagar 33/11 KV Sub-station Siliquri DC-001 - 01 nos	GB/T (15kW) - 01 nos	15 kW	15 x 10	01	Yes
2	Kanyapur II 33/11 KV Sub-station Asansol Battery Swapping (4 batteries) - 01 nos	Proprietary Battery (1.5kW) - 04 nos	4kW	15 x 15	02	Yes
3	New town AA-II 33/11 KV Sub station Type 2 AC- New Town DC-001 - 01 nos	GB/T (15kW) - 01 nos Type-2 AC (7.5	20kW	15 x 15	02	Yes

Annexure-I

a) Sub-stn along National Highway

TENTATIVE LIST OF SUB-STATION WITH OPEN SPACE MORE THAN 200 SQ FT (SUB-STATION ALONG THE NH)

SL NO	NAME OF THE SUB-STATION	SUB-STATION CODE	NAME OF THE DIVISION	WHETHER SITUATED ALONG THE NATIONAL HIGHWAY	CATEGORY OF THE SUB-STATION (URBAN / RURAL	CONTACT NUMBER
1	BIRA	SS463	BARASAT	YES	RURAL	8900798058
2	DIAMOND HARBOUR	SS004	DIAMOND HARBOUR	YES	URBAN	8900798248
3	PURBA DURGAPUR	SS006	DIAMOND HARBOUR	YES	RURAL	8900798248
4	BARUIPUR	SS019	BARUIPUR	YES	URBAN	8900798297
5	MAHINAGAR	SS015	BARUIPUR	YES	URBAN	8900798297
6	KHARIBERIA	SS619	BEHALA	YES	RURAL	8900798224
7	BHASTARA	SS650	TARAKESWAR	YES	RURAL	8900797460
8	SADARGHAT	SS143	BURDWAN SOUTH	YES	URBAN	8900797150
9	GALSI	SS131	BURDWAN NORTH	YES	RURAL	8900797130
10	KAYNAPUR-II	SS165	ASANSOL	YES	URBAN	8900797220
11	BHIRINGHEE	SS165	DURGAPUR	YES	URBAN	8900797250
12	DUBRAJPUR	SS175	SURI	YES	URBAN	8900797290
13	GAZOLE	SS305	NORTH MALDA	YES	RURAL	8900796288
14	KPS	SS310	SOUTH MALDA	YES	URBAN	8900796256
15	RABINDRA BHAWAN	SS313	SOUTH MALDA	YES	URBAN	8900796256
16	BAISHNABNAGAR	SS331	SOUTH MALDA	YES	RURAL	8900796256
17	NARAYANPUR	SS038	SOUTH MALDA	YES	URBAN	8900796256
18	SALBONI	SS219	MIDNAPORE	YES	RURAL	8900799035
19	JHARIA	SS209	KHARAGPUR	YES	URBAN	8900799065
20	NIMPURA	SS216	KHARAGPUR	YES	URBAN	8900799065
21	VIDYASAGAR PARK	SS641	KHARAGPUR	YES	URBAN	8900799065
22	NARAYANGARH	SS215	BELDA	YES	RURAL	8900799155
23	BELDA	SS225	BELDA	YES	RURAL	8900799155
24	HURA	SS293	RAGHUNATHPUR	YES	RURAL	8900799460
25	TAMNA	SS299	PURULIA	YES	RURAL	8900799430
26	BALARAMPUR	SS659	PURULIA	YES	RURAL	8900799430
27	MECHOGRAM	SS241	TAMLUK	YES	RURAL	8900799200
28	DIGHASIPUR	SS256	HALDIA	YES	URBAN	8900799265
29	CHANDIPUR	SS484	HALDIA	YES	RURAL	8900799265
30	KHARIPUKURIA	SS582	CONTAI	YES	RURAL	8900799230

31	SALBARI	SS391	SILIGURI TOWN	YES	RURAL	8900795047
32	HATIGHISHA	SS519	SILIGURI SUB-URBAN	YES	RURAL	8900795073
33	TCF PS1	SS395	SILIGURI SUB-URBAN	YES	RURAL	8900795073
34	BIDHANNAGAR	SS383	SILIGURI SUB-URBAN	YES	RURAL	8900795073
35	GHOSHPUKUR	SS386	SILIGURI SUB-URBAN	YES	URBAN	8900795073
36	RADHABARI	SS527	JALPAIGURI	YES	RURAL	8900795130
37	TUFANGANJ	SS410	COOCHBEHA R	YES	URBAN	8900795215
38	BIKORE	SS436	RAIGANJ	YES	RURAL	8900795280
39	DURGAPUR	SS514	RAIGANJ	YES	RURAL	8900795280
40	ISLAMPUR	SS439	ISLAMPUR	YES	URBAN	8900795302

b) Sub-stn other than National Highway

TENTATIVE LIST OF SUB-STATION WITH OPEN SPACE MORE THAN 200 SQ FT (SUB-STATION OTHER THEN NH)

Sl. No	NAME OF SUB-STATION	SUB-STATION CODE	CATEGORY (URBAN/ RURAL)	NAME OF DIVISION	CONTACT NUMBER
1	RAJARHAT	SS460	U	BIDHANNAGAR-II	8900798170
2	NEW TOWN AA-IIIE	SS533	U	BIDHANNAGAR-II	8900798170
3	NEW TOWN AA-1C	SS622	U	NEW TOWN	8900798201
4	NEW TOWN AA-ID BPS	SS619	U	NEW TOWN	8900798201
5	NEW TOWN AA-IIB	SS625	U	NEW TOWN	8900798201
6	NEWTOWN AA-IIIE	SS819	U	NEW TOWN	8900798201
7	SIRAKOLE	SS468	R	BEHALA	8900798224
8	BIRLAPUR	SS002	R	BEHALA	8900798224
9	PAITA	SS658	R	BEHALA	8900798224
10	KULPI	SS005	R	DIAMOND HARBOUR	8900798248
11	CHANDPALA (FALTA)	SS751	R	DIAMOND HARBOUR	8900798248
12	SARISHA	SS814	R	DIAMOND HARBOUR	8900798248
13	KAKDWIP	SS007	R	KAKDWIP	8900798280
14	NAMKHANA	SS469	R	KAKDWIP	8900798280
15	RUDRANAGAR	SS485	R	KAKDWIP	8900798280
16	DAKSHIN SHIBGANJ	SS687	R	KAKDWIP	8900798280
17	ACHINTYANAGAR	SS756	R	KAKDWIP	8900798280
18	RADHANAGAR (BAKKHALI FRESURGANJ)	SS794	R	KAKDWIP	8900798280
19	NEPALGANGE	SS461	U	GARIA	8900798235
20	KALIKAPUR	SS020	U	GARIA	8900798235
21	GANGAJOARA	SS454	U	GARIA	8900798235
22	UTTARBHAG	SS016	R	CANNING	8900798261
23	MIYERGHERI (JIBANTALA)	SS014	R	CANNING	8900798261
24	OLD CALCUTTA	SS061	U	BARRACKPORE	8900798041
25	BARRACKPORE	SS058	U	BARRACKPORE	8900798041
26	GHOLA	SS060	U	BARRACKPORE	8900798041
27	BELGHORIA	SS059	U	BARRACKPORE	8900798041
28	KHARDAH	SS871	U	BARRACKPORE	8900798041
29	MOHISPOTA	SS064		BARRACKPORE	8900798041
30	ABDALPUR	SS069	U	BARASAT	8900798058
31	AMDANGA	SS071	R	BARASAT	8900798058
32	BASIRHAT	SS083	U	BASIRHAT	8900798085
33	HASNABAD	SS085	R	BASIRHAT	8900798085
34	SERAPOLE	SS086	R	BASIRHAT	8900798085
35	HANROA	SS084	R	BASIRHAT	8900798085
36	HINGALGANJ	SS087	R	BASIRHAT	8900798085
37	NAZAT	SS669	R	BASIRHAT	8900798085
38	BADURIA	SS727	U	BASIRHAT	8900798085
39	DASGHARA	SS100	R	TARAKESWAR	8900797460
40	JANGIPARA (FEBGIPARA)	SS106	R	TARAKESWAR	8900797460
41	TARUI	SS127	R	ARAMBAGH	8900797431
42	POLBA	SS117	R	CHANDANNAGAR	8900797380
43	INCHURA	SS110	R	MOGRA	8900797500
44	KHANYAN	SS115	R	MOGRA	8900797500
45	KHASERBHERI	SS511	R	SINGUR-HARIPAL	8900797478
46	GUSHKARA	SS132	U	BURDWAN (NORTH)	8900797130

47	ORGRAM	SS148	R	BURDWAN (NORTH)	8900797130
48	BOLGONA	SS135	R	BURDWAN (NORTH)	8900797130
49	NASIGRAM	SS561	R	BURDWAN (NORTH)	8900797130
50	RAMNAGAR	SS614	R	BURDWAN (NORTH)	8900797130
51	BHANDARDIHI	SS996	R	BURDWAN (NORTH)	8900797130
52	BENGAL SHRACHI	SS760	R	BURDWAN URBAN (SOUTH)	8900797150
53	JAMALPUR	SS134	R	MEMARI	8900797030
54	BAGILA	SS149	R	MEMARI	8900797030
55	PAHARHATI	SS195	R	MEMARI	8900797030
56	JAGGESWARDIHI	SS158	R	KATWA	8900797060
57	PACHUNDI	SS157	R	KATWA	8900797060
58	MEJIARY	SS562	R	KATWA	8900797060
59	KANDRA	SS563	R	KATWA	8900797060
60	MADHUPUR	SS152	R	KALNA	8900797090
61	PANRUI	SS185	R	SURI	8900797290
62	PAIKAR	SS449	R	RAMPURHAT	8900797323
63	KANDURI (KHORBANU) (RAMPURHAT-II)	SS193	R	RAMPURHAT	8900797323
64	BOLPUR	SS174	U	BOLPUR	8900797350
65	AHMEDPUR	SS180	R	BOLPUR	8900797350
66	LAVPUR	SS178	R	BOLPUR	8900797350
67	KIRNAHAR	SS181	R	BOLPUR	8900797350
68	ILLAMBAJAR	SS176	R	BOLPUR	8900797350
69	NANOOR	SS553	R	BOLPUR	8900797350
70	JOYDEB (BHALUKA)	SS720	R	BOLPUR	8900797350
71	HATIA	SS848	R	BOLPUR	8900797350
72	BOLPUR IND PARK	SS974	U	BOLPUR	8900797350
73	SABONG	SS221	R	KHARAGPUR	8900799065
74	PINGLA	SS217	R	KHARAGPUR	8900799065
75	KHANDARUI	SS580	R	BELDA	8900799155
76	SARASANKA	SS204	R	BELDA	8900799155
77	MOHANPUR	SS227	R	BELDA	8900799155
78	KESHIARY	SS212	R	BELDA	8900799155
79	NAYAGRAM	SS576	R	BELDA	8900799155
80	SANKRAIL	SS220	R	BELDA	8900799155
81	KHASJUNGLE	SS646	U	MIDNAPORE	8900799035
82	KESHPUR	SS213	R	MIDNAPORE	8900799035
83	PIRAKATA	SS721	R	MIDNAPORE	8900799035
84	MANIKPARA	SS214	R	JHARGRAM	8900799125
85	BINPUR	SS202	R	JHARGRAM	8900799125
86	GOPIBALLAVPUR	SS207	R	JHARGRAM	8900799125
87	BORIA	SS226	R	JHARGRAM	8900799125
88	BELPAHARI	SS512	R	JHARGRAM	8900799125
89	CHILKIGARH	SS569	R	JHARGRAM	8900799125
90	SULTANNAGAR	SS235	R	GHATAL	8900799100
91	NIRMALBAZAR	SS234	U	GHATAL	8900799100
92	SREENAGAR	SS237	U	GHATAL	8900799100
93	C.K.TOWN	SS229	U	GHATAL	8900799100
94	GOPALNAGAR	SS476	R	TAMLUK	8900799200
95	THEKUACHAK (KHANCHI)	SS649	R	TAMLUK	8900799200
96	RAMNAGAR	SS253	R	CONTAI	8900799230
97	MALDA	SS252	R	CONTAI	8900799230
98	DIGHA	SS250	U	CONTAI	8900799230
99	JINANDAPUR	SS638	R	CONTAI	8900799230
100	SAKTIA (UDBADAL)	SS684	R	CONTAI	8900799230
101	MANDARMONI	SS847	R	CONTAI	8900799230
102	BASUDEVPUR	SS254	U	HALDIA	8900799265
103	KHUDIRAMNAGAR	SS257	U	HALDIA	8900799265

104	MEDICAL COLLEGE	SS489	U	HALDIA	8900799265
105	CHAITANYAPUR	SS255	U	HALDIA	8900799265
106	GOPALPUR	SS239	R	HALDIA	8900799265
107	REYAPARA	SS243	R	HALDIA	8900799265
108	AMTOLIA	SS558	R	HALDIA	8900799265
109	CHHATNA	SS261	R	BANKURA	8900799315
110	MANJURA	SS266	R	BANKURA	8900799315
111	BARJORA	SS259	R	BANKURA	8900799315
112	NANDANPUR	SS267	R	BANKURA	8900799315
113	GANGAJALGHATI	SS262	R	BANKURA	8900799315
114	INDPUR	SS263	R	KHATRA	8900799385
115	RANIBANDH	SS268	R	KHATRA	8900799385
116	SIMLAPAL	SS279	R	KHATRA	8900799385
117	TALDANGRA	SS281	R	KHATRA	8900799385
118	WILCOX ROAD, TELIDIH	SS853	U	PURULIA	8900799430
119	MANBAZAR	SS296	R	RAGHUNATHPUR	8900799460
120	BORO (MANBAZAR-II)	SS572	R	RAGHUNATHPUR	8900799460
121	RAGHUNATHPUR	SS099	U	RAGHUNATHPUR	8900799460
122	GOBAG	SS292	R	RAGHUNATHPUR	8900799460
123	KASHIPUR	SS295	R	RAGHUNATHPUR	8900799460
124	RAGHUNATHPUR-II (DUMURKHOLA)	SS731	R	RAGHUNATHPUR	8900799460
125	KENDA	SS712	R	RAGHUNATHPUR	8900799460
126	SARBARI	SS748	R	RAGHUNATHPUR	8900799460
127	WBIDC PH-II	SS351	U	KALYANI	8900796026
128	WBIDC PH-III	SS352	U	KALYANI	8900796026
129	GANGNAPUR	SS347	R	RANAGHAT	8900796105
130	FULIA	SS357	U	RANAGHAT	8900796105
131	BADKULLA	SS356	R	RANAGHAT	8900796105
132	KRISHNAGANJ	SS363	R	KRISHNANAGAR	8900796049
133	PALASSY	SS370	R	NAKASHIPARA	8900796086
134	DHUBULIA	SS367	R	NAKASHIPARA	8900796086
135	AKANDABERIA	SS365	R	NAKASHIPARA	8900796086
136	CHOA	SS320	R	BAHARAMPUR	8900796139
137	BELDANGA	SS317	R	BAHARAMPUR	8900796139
138	REJINAGAR	SS328	R	BAHARAMPUR	8900796139
139	LALGOLA	SS326	R	JIAGANJ	8900796180
140	AJIMGANJ	SS724	R	JIAGANJ	8900796180
141	DAFAHAT (AURANGABAD)	SS332	U	RAGHUNATHGANJ	8900796201
142	MOREGRAM	SS985	R	RAGHUNATHGANJ	8900796201
143	SHAKTIPUR	SS329	R	KANDI	8900796224
144	HABIBPUR	SS307	R	MALDA (SOUTH)	8900796256
145	MANIKCHAK	SS311	R	MALDA (SOUTH)	8900796256
146	MOBARAKPUR	SS845	R	MALDA (SOUTH)	8900796256
147	GOLAPGANJ	SS984	R	MALDA (SOUTH)	8900796256
148	SHIBNAGAR	SS315	R	MALDA (NORTH)	8900796288
149	BAMONGOLA (GUNNAGAR)	SS306	R	MALDA (NORTH)	8900796288
150	NALAGOLA	SS876	R	MALDA (NORTH)	8900796288
151	HOUSING BOARD	SS387	U	SILIGURI TOWN	8900795047
152	RABINDRANAGAR	SS390	U	SILIGURI TOWN	8900795047
153	DABGRAM	SS384	U	SILIGURI TOWN	8900795047
154	MIRIK	SS381	U	KURSEONG	8900795098
155	PAHARPUR	SS501	U	JALPAIGURI	8900795130
156	DHUPGURI	SS414	U	JALPAIGURI	8900795130
157	FALAKATA	SS398	R	ALIPURDUAR	8900795186
158	KARTIKA	SS400	R	ALIPURDUAR	8900795186
159	BALARAMPUR	SS659	R	DINHATA	8900795236
160	AKRAHAT	SS405	R	MATHABHANGA	8900795254

161	MEKHLIGANG	SS526	R	MATHABHANGA	8900795254
162	HEMTABAD	SS438	R	RAIGANJ (U/DINAJPUR)	8900795280
163	BARO-RAGHUNATHPUR	SS426	U	BALURGHAT	8900795331
164	SALAS	SS431	R	BALURGHAT	8900795331
165	THENGAPARA	SS733	R	BUNIADPUR	8900795350



सत्यमेव जयते

No.12/2/2018-EV (Comp No. 244347)

Government of India

Ministry of Power

Shram Shakti Bhawan, Rafi Marg,
New Delhi, the 14th January, 2022

To,

1. The Secretaries of all the Ministries/ Departments of Government of India
2. The Chief Secretaries of the States/UTs

Subject: Charging Infrastructure for Electric Vehicles (EV) – the revised consolidated Guidelines & Standards-reg

Sir/ Madam,

The "Charging Infrastructure for Electric Vehicles - Guidelines and Standards" were issued by the Ministry of Power on 14.12.2018 which were subsequently revised on 01.10.2019 and an Amendment thereof was issued on 08.06.2020. After careful consideration of progress made and suggestions received from various stakeholders, it has been decided to amend the guidelines to accelerate the E-Mobility transition in the country. In supersession of all previous guidelines in this regard, the revised consolidated guidelines are as follows:

Objectives

- a) To enable faster adoption of electric vehicles in India by ensuring safe, reliable, accessible and affordable Charging Infrastructure and eco-system.
- b) To provide for affordable tariff chargeable from Charging Station Operators/Owners and Electric Vehicle (EV) owners.
- c) To generate employment/income opportunities for small entrepreneurs.
- d) To proactively support creation of EV Charging Infrastructure.
- e) To encourage preparedness of Electrical Distribution System to adopt EV Charging Infrastructure.
- f) To promote energy security and reduction of emission intensity of the country by promotion of entire EV ecosystem

Definitions:

- i. **Electric Vehicle Supply Equipment (EVSE)** shall mean an element in Electric Vehicle Charging Infrastructure (EVCI) that supplies electrical energy for recharging the battery of electric vehicles.
- ii. **Public Charging Station (PCS)** shall mean an EV charging station where any electric vehicle can get its battery recharged.

- iii. **Battery Charging Station (BCS)** shall mean a station where the discharged or partially discharged electric batteries for electric vehicles are electrically recharged.
- iv. **Captive Charging Station (CCS)** shall mean an electric vehicle charging station exclusively for the electric vehicles owned or under the control of the owner of the charging station e.g., Government Departments, Corporate houses, Bus Depots, charging stations owned by the fleet owners etc. and shall not be used for commercial purpose of charging other vehicles on paid for basis.
- v. **Battery Swapping Station (BSS)** shall mean a station where any electric vehicle can get its discharged battery or partially charged battery replaced by a charged battery.

Guidelines:

- 1. Owners may charge their Electric Vehicles at their residence/offices using their existing electricity connections.
- 2. Any individual/entity is free to set up public charging stations provided that, such stations meet the technical, safety as well as performance standards and protocols laid down below as well as norms/ standards/ specifications laid down by Ministry of Power, Bureau of Energy Efficiency (BEE) and Central Electricity Authority (CEA) from time to time.
- 2.1 Public Charging Station (PCS), may apply for electricity connection and the Distribution Company licensee shall release connection for EV Public charging station (PCS) in accordance with the timelines stated in section 4 sub. (11) of the Electricity (Rights of Consumers) Rules 2020. Accordingly, timelines for providing the connectivity for the PCS are as under:
 - i. Post submission of application complete in all respect, the connection for a Public Charging Station shall be provided within time period not exceeding seven days in metro cities, fifteen days in other municipal areas and thirty days in rural areas, within which the distribution licensees shall provide new connection or modify an existing connection. Appropriate Commission may specify a time limit for providing such connection to a Public Charging Station which may be less than the aforementioned specified time limit.
 - ii. Provided that where such supply requires extension of distribution mains, or commissioning of new sub-stations, the distribution licensee shall supply the electricity to such premises immediately after such extension or commissioning or within such period as may be specified by the Appropriate Commission.
- 2.2 Any Public Charging Station/ Chain of Charging Stations may obtain electricity from any generation company through open access. Open Access shall be provided for this purpose within 15 days of receipt of the application complete in all respect. They will be required to pay the applicable surcharge – equal to the current level of cross subsidy (not more than 20 percent, as per the Tariff Policy Guidelines), transmission charges and wheeling charges. No other surcharge or charges shall be levied except mentioned in this provision.
- 3. **Public Charging Infrastructure (PCI)- Requirements:**
- 3.1 Every Public Charging Station (PCS) will comply with the following: -



- i. An exclusive transformer with all related substation equipment including safety appliance, if required by Supply Code as approved by Appropriate Electricity Regulatory Commission.
 - ii. Appropriate civil works
 - iii. Appropriate cabling & electrical works ensuring safety
 - iv. Adequate space for Charging and entry/exit of vehicles.
 - v. Appropriate Fire protection equipment and facilities.
 - vi. Public Charging Station shall have, any one or more chargers or any combination of chargers from the table given in ANNEXURE II & ANNEXURE III in one or more electric kiosk/boards.
 - vii. Charging Station for(two/three wheelers) e- vehicles shall be free to install any charger other than those specified above subject to compliance of technical & safety standards as laid down by CEA.
 - viii. Tie up with at least one online Network Service Providers (NSPs) to enable advance remote/online booking of charging slots by EV owners. Such online information to EV owners should also include information regarding location, types and numbers of chargers installed/available, service charges for EV charging, etc.
 - ix. Share charging station data with the appropriate State Nodal Agency (SNA) and adhere to protocols as prescribed by Central Nodal Agency (CNA) i.e., Bureau of Energy Efficiency (BEE) for this purpose. The CNA and SNA shall have access to this database.
 - x. Public Charging Stations for EVs shall comply with the provisions of Central Electricity Authority (Technical Standards for Connectivity of the Distributed Generation Resources) Amendment Regulations, 2019 and Central Electricity Authority (Measures relating to Safety and Electric Supply) (Amendment) Regulations, 2019.
- 3.2 Electric Vehicle Supply Equipment (EVSE) should have been type tested by an agency/lab accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) from time to time.
- 3.3 The above minimum infrastructure requirements do not apply to Private Charging Points meant for self-use of individual EV owners (non-commercial basis).
- 3.4 Captive charging infrastructure for 100% internal use for a company's own/leased fleet for its own use will not be required to install chargers as per para 3.1 and to have Network Service Provider (NSP) tie ups.
- 3.5 Public Charging Station may also be installed by Housing societies, Malls, Office Complexes, Restaurants, Hotels, etc. with a provision to allow charging of visitor's vehicles which are permitted to come in its premises.
- 4. Public Charging Infrastructure (PCI) for long range EVs and/or heavy duty EVs:**
- 4.1 Fast Charging Stations (FCS) i.e. Public charging stations for long range EVs and/or heavy duty EVs (like trucks, buses etc) will have the following :
- i. At least two chargers of minimum 100 kW (200- 750 V or higher) each of different specification (CCS /CHAdeMO Chargers for above capacity or BIS

Standards for eBus Charging Station (Level-4: 250 to 500 kW) as provided under ANNEXURE III (6)) with single connector gun each.


- ii. Appropriate Liquid Cooled Cables for high speed charging facility as above [4.1(i)], for onboard charging of Fluid Cooled Batteries (currently available in some long range EVs), if required.
- 4.2 Such Fast Charging Stations (FCS) which are meant for 100% in house/captive utilisation, for example buses of a company, would be free to decide the charging specifications as per requirement for its in- house company EVs.

5. Location of Public Charging Stations:

- 5.1 In case of Public Charging Stations, the following requirements are laid down with regard to density/distance between two charging points:
- i. At least one Charging Station shall be available in a grid of 3 Km X 3 Km. Further, one Charging Station shall be set up at every 25 Km on both sides of highways/roads.
 - ii. For long range EVs and/or heavy duty EVs like buses/trucks etc., there shall be at least one Fast Charging Station with Charging Infrastructure Specifications as per para 4.1 above at every 100 Kms, one on each side of the highways/road located preferably within/alongside the Public Charging Stations as per ANNEXURE II or BIS Standards for Power Level 1 to 5 as per ANNEXURE III. Within cities, such charging facilities for heavy duty EVs may be located within Transport Nagars, bus depots.
- 5.2 Additional PCS/FCS can be installed even if there exists a PCS/FCS in the required grid or distance.
- 5.3 The above density/distance requirements shall be used by the concerned state/UT Governments/their Agencies for the twin purposes of arrangement of land in any manner for public charging stations as well as for priority in installation of distribution network including transformers/feeders etc. This shall be done in all cases including where no central/state subsidy is provided.
- 5.4 The appropriate Governments (Central/State/UTs) may also give priority to existing retail outlets (ROs) of Oil Marketing Companies (OMCs) for installation of Public EV Charging Stations (in compliance with safety norms) to meet the requirements as laid above. Further, within such ROs, Company Owned and Company Operated (COCO) ROs may be given higher preference.

6. Database of Public EV Charging Stations:

- 6.1. Bureau of Energy Efficiency (BEE) shall create and maintain a national online database of all the Public Charging Stations in consultation with State Nodal Agencies (SNAs). Bureau of Energy Efficiency shall create a Web-Portal/Software/Mobile Application for the database of Public Charging Stations throughout the country. A common format for information in this regard shall be prepared by Bureau of Energy Efficiency (BEE) and State Nodal Agencies (SNAs) shall be directed to keep the details as per such format and update the same on the Web-Portal/Software/Mobile Application developed by BEE on weekly basis.



- 7. Tariff for supply of electricity to EV Public Charging Stations:**
- 7.1 The tariff for supply of electricity to Public EV Charging Stations shall be a single part tariff and shall not exceed the “**Average Cost of Supply**” till 31st March, 2025. The same tariff shall be applicable for Battery Charging Station (BCS).
- 7.2 The tariff applicable for domestic consumption shall be applicable for domestic charging.
- 7.3 The separate metering arrangement shall be made for PCS so that consumption may be recorded and billed as per applicable tariff for EV charging stations.
- 7.4 DISCOMs may leverage on funding from the Revamped Distribution Sector Scheme (RDSS) under ‘Part A – Distribution Infrastructure’ for the general upstream network augmentation necessitated due to the upcoming charging infrastructure in various areas. The cost of such works carried out by the DISCOMs with the financial assistance from Government of India under the Revamped Scheme shall not be charged from the consumers for Public Charging Stations for EVs.
- 8. Service charges at PCS:**
- 8.1 Charging of EVs is a service as already clarified by Ministry of Power vide letter No. 23/08/2018-R&R dated 13.04.2018.
- 8.2 As electricity is being provided at concessional rates and also considering the fact that subsidy is being provided by the Central/State Governments in many cases for setting up Public Charging Stations, the State Government shall fix the ceiling of Service Charges to be charged by such PCS/FCS.
- 9. Provision of land at promotional rates for Public Charging Stations (PCS):**
- 9.1 In initial years the penetration of Electric Vehicles on road is increasing gradually. Consequently, the utilization rate for the Public Charging Stations is very low. High cost of rent for land and chargers coupled with no definite visibility of revenues makes the overall investment proposition for setting up a public Charging Station challenging in present scenario.
- 9.2 Accordingly, it is provided that the land available with the Government/Public entities shall be provided for installation of Public Charging Stations to a Government/Public entity on a revenue sharing basis for installation of Public Charging Station at a fixed rate of ₹1/kWh (used for charging) to be paid to the Land-owning Agency from such PCS business payable on quarterly basis. A model revenue sharing agreement is placed at **Annexure –IV**. Such revenue sharing agreement may be initially entered by parties for a period of 10 years. The Revenue Sharing Model may also be adopted by the public Land-owning agency for providing the land to a private entity for installation of Public Charging Stations on bidding basis with floor price of ₹1/kWh.
- 9.3 Furthermore, based on available charging technologies and their evolution, type of vehicles, the types of chargers, indicating number of charging points required for setting up adequate PCS within the local urban areas including the building premises of all building types and with the long term vision of implementing 'electric mobility' during the next 30 years, amendments have been made in the relevant sections (Chapter 10) of the Model Building Bye-laws, 2016 and the Urban and Regional Development Plans Formulation and Implementation Guidelines (URDPFI – 2014)



by the Ministry of Housing and Urban Affairs (MoHUA). A copy of these amendments is enclosed at ANNEXURE V. These may be implemented fully to provide adequate space for setting up charging stations.

10. Priority for Rollout of EV Public Charging Infrastructure:

After extensive consultations with State Governments and different Department/Agencies of Central Government, phasing as follows are laid down as national priority for rollout of EV Public Charging Infrastructure:

10.1 Phase I (1-3 Years):

All Mega Cities with population of 4 million plus as per census 2011, all existing expressways connected to these Mega Cities & important Highways connected with each of these Mega Cities may be taken up for coverage. A list of these Mega Cities and existing connected expressways is attached at ANNEXURE I.

10.2 Phase II (3-5 Years):

Big cities like State Capitals, UT headquarters may also be covered for distributed and demonstrative effect. Further, important Highways connected with each of these Mega Cities may be taken up for coverage.

10.3 The above priorities for phasing of rollout may be kept in mind by all concerned, including, different agencies of Central/State Governments while framing of further policies/guidelines for Public Charging Infrastructure of EVs, including for declaring further incentives/subsidies for such infrastructure and for such other purposes.

11. Implementation Mechanism for Rollout:

11.1 Bureau of Energy Efficiency (BEE) shall be the Central Nodal Agency for rollout of EV Public Charging Infrastructure. All relevant agencies including Central Electricity Authority (CEA) shall provide necessary support to Central Nodal Agency.

11.2 Every State Government shall nominate a Nodal Agency for that State for setting up charging infrastructure. The State DISCOM shall generally be the Nodal Agency for such purposes. However, State Government shall be free to select a Central/State Public Sector Undertaking (PSU) including Urban Local Bodies (ULBs), Urban/Area Development Authorities etc. as its Nodal Agency.

12. Selection of Implementation Agency for Rollout:

12.1 The Central Nodal Agency shall finalize the cities and expressways/highways to be finally taken up from the priority as given at para 10 above, in consultation with the respective State Governments.

12.2 An Implementation Agency may be selected by the respective State Nodal Agency and shall be entrusted with responsibility of installation, operation and maintenance of PCS/FCS for designated period as per parameters laid down in this policy and as entrusted by the concerned Nodal Agency. The Implementation Agency maybe an Aggregator as mutually decided between Central and State Nodal Agencies. However, they may also decide to choose different PCS providers for bundled packages or for individual locations as mutually decided. Further, whenever bundled packages are carved for bidding, such packages may include at least one



identified expressway/highway or part thereof to prepare a cohesive regional package; the selected identified cities may be divided into one or more parts as necessary for such purposes.

13. These Guidelines and Standards shall supersede the Revised “Charging Infrastructure for Electric Vehicles – Guidelines and Standards” issued by Ministry of Power on 1st October, 2019 and subsequent amendments dated 08.06.2020.

This issues with the approval of Hon’ble Minister of Power, New & Renewable Energy.



(S. Majumdar)

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Copy to:

1. Prime Minister’s Office/Cabinet Secretariat
2. CEO, NITI Aayog
3. The Secretaries of the CERC/State Commissions/JERCs
4. Chairperson, CEA
5. DG, BEE



(S. Majumdar)

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Annexure I

I. List of 4 million plus cities (as per census 2011)

1	Mumbai
2	Delhi
3	Bangalore
4	Hyderabad
5	Ahmedabad
6	Chennai
7	Kolkata
8	Surat
9	Pune

II. List of corridors

1	Mumbai-Pune Expressway
2	Ahmedabad-Vadodara Expressway
3	Delhi-Agra Yamuna Expressway
4	Delhi-Jaipur
5	Bengaluru-Mysore
6	Bengaluru-Chennai
7	Surat-Mumbai Expressway
8	Agra - Lucknow Expressway
9	Eastern Peripheral Expressway
10	Delhi-Agra NH2 Expressway
11	Hyderabad ORR expressway
12	5 connected highways to each megacity

ANNEXURE II**Electric Vehicle Chargers as provided under Para 3.1 (vi) of the Guidelines**

Charger Type	S. No.	Charger Connectors*	Rated Output Voltage(V)	No. of No. of Connector guns (CG)	Charging vehicle type(W=wheeler)
Fast	1	Combined Charging System(CCS) (min 50 kW)	200-750or higher	1 CG	4W
	2	CHArgedeMOve (CHAdMO) (min 50 kW)	200-500or higher	1 CG	4W
	3	Type-2 AC (min 22 kW)	380- 415	1 CG	4W, 3W, 2W
Slow/ Moderate	4	Bharat DC-001 (15 kW)	48	1 CG	4W, 3W, 2W
	5.	Bharat DC-001 (15 kW)	72 or higher	1 CG	4W
	6.	Bharat AC-001 (10 kW)	230	3 CG of 3.3 kW each	4W, 3W, 2W

Indian Standards EV Charging notified by BIS of 01.11.2021**1. Light EV AC Charge Point**

Power Level 1	Charging Device	EV-EVSE Communication	Charge Point Plug/ Socket	Vehicle Inlet/ Connector
Up to 7 kW	IS-17017-22-1	Bluetooth Low Energy	IS-60309	As per EV manufacturer

2. Light EV DC Charge Point

Power Level 1	Charging Device	EV-EVSE Communication	Charge Point Plug/ Socket	Vehicle Inlet/ Connector
Up to 7 kW	IS-17017-25 [CAN]		Combined Socket under development	IS-17017-2-6

3. Parkbay AC Charge Point

Power Level-2	Device/ Protocol	EV-EVSE Communications	Infrastructure Socket	Vehicle Connector
Normal Power ~11kW/ 22 kW	IS-17017-1	IS-15118 [PLC] for Smart Charging	IS-17017-2-2	IS-17017-2-2

4. Parkbay DC Charge Point

Power Level-2	Device/ Protocol	EV-EVSE Communications	Infrastructure Socket	Vehicle Connector
Normal Power ~11kW/ 22 kW	IS-17017-23	IS-17017-24 [CAN] IS-15118 [PLC]	IS-17017-22-2	IS-17017-2-3

5. DC Charging Protocol

Power Level 3	Charging Device	EV-EVSE Communication	Connector
DC 50 kW to 250 kW	IS-17017-23	IS-17017-24 [CAN] IS-15118 [PLC]	IS-17017-2-3

6. eBus Charging Station (Level-4: 250 to 500 kW)

Power Level 4	Charging Device	EV-EVSE Communication	Connector
DC High Power (250 kW --> 500 kW)			
Dual Gun Charging Station	IS-17017-23-2	IS-15118 [PLC]	IS-17017-2-3
Automated Pantograph Charging Station	IS-17017-3-1		IS-17017-3-2
