NHEV
National Highways for Electric Vehicles

BESCOM

PROPOSAL TO UPGRADE IN ELECTRIC HIGHWAYS

Bangalore - Pune (NH48)

Karnataka Limit 500 KM

Approximately 10 Toll Plaza (s)

Submitted by

BESCOM (Bangalore Electricity Supply Company Limited)

Bangalore, Karnataka

Bangalore Electricity Supply Company Limited

Corporate Office: K.R.Circle, Bengaluru-560 001.
Ph: +91-80-2235 4929
E-mail: md@bescom.co.in
https://bescom.karanataka.gov.in

Mahantesh Bilagi, IAS
Managing Director

No: BESCOM/MD/SPS/BC-01/2024-25/98

17-12-2024

Sub: BESCOM partnership with NHEV for setting up EVCS across NH-48

Ref: Your Letter No: EODB/PR/2024-0212 dated 02.12.2024

****

Reference is invited to your letter no. EODB/PR/2024-0212 dated 2nd December 2024 titled "Key Actionable- EODB<>BESCOM |Setting up EV Fast Charging stations at NH-48". It may be noted that BESCOM is willing to collaborate with NHEV for co-ordinating with NHAI for fast tracking the land approval from NHAI and setting up of EV Charging Stations at toll plazas along NH-48 Bengaluru-Pune Highway inside Karnataka limits.

BESCOM is further willing to collaborate with NHEV on the following areas as sought in your letter:

1. To designate NHEV as an official partner for piloting agency services on a non-commercial basis during this phase.

2. BESCOM extending non-commercial logo support to NHEV to be used as an official partner for piloting agency services.

3. Launch of a joint program co-sponsored by BESCOM with further details to be discussed mutually.

4. BESCOM to allot space inside one of its premises for NHEV to install a charger with a Battery Energy Storage System (BESS) for a six-month non-commercial testing period with further details to be discussed mutually.

Looking forward to your support in this regard.

Yours sincerely,

MD, BESCOM

To:
Shri. Abhijeet Sinha
National Program Director,
Ease of Doing Business,
EoDB Services OPC, 5th Floor, Antariksh Bhawan,
22 Kasturba Gandhi Marg, Connaught Place,
New Delhi - 110001

सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण
NATIONAL HIGHWAYS AUTHORITY OF INDIA
(सड़क परिवहन एवं राजमार्ग मंत्रालय, भारत सरकार)
(MINISTRY OF ROAD TRANSPORT AND HIGHWAYS, GOVT OF INDIA)
क्षेत्रीय कार्यालय: नागसंद्रा मेट्रो स्टेषन के पीछे, बेंगलूरु–५६० ०७३.
Regional Office : Beside Nagasandra Metro Station, Bengaluru-560073.
Email : robangalore@nhai.org | ronhaibangalore@gmail.com
Phone : 080-28397156, 28397171, Fax : 080-28377171

NHAI/RO-BNG/Misc./2023-24/1267 Date: 28.07.2023

To,
Bengaluru Electricity Supply Company Limited,
Corporate Office,
K.R. Circle, Bengaluru 560001
Ph:- +91 8022354929

Sub: Developing Green Corridors for EV Charging Infrastructure and Lighthouse corridors - Reg.

Ref: DO Letter No. ENERGY/126/VSC/2023 dated 10.07.2023

With reference to the above cited letter received from Additional Chief Secretary to Government, Energy Department, Government of Karnataka requesting to consider the proposal of Lighthouse Corridors along NH-48 and provide required space for installing EV Chargers and extend support to BESCOM to move forward with the proposal.

2. In this regard, it is submitted that the Minutes of the Meeting was held at Regional Officer Chamber on 21.07.2023 and brought out the following:

1. It is suggested to keep these charging stations under Flyovers, or VUPs etc., at the suitable location on NH.
2. Proposal for infrastructure and Display boards.
3. Land scaping provision may also be included through the vender's scope.
4. Sharing as proposed will inform to HQ as per Para 9.2 of Government of India Circular dated 07.11.2022
5. Survey by 15th August, 2023.

In view of the above, it is requested to Joint Inspect with Project Director, PIU-Tumkur, Chitradurga & Dharwad for identifying the suitable location.

This issues with the approval of Competent Authority.

Thanking you,

Yours faithfully,

Encl: As above

(Praveen Kumar P)
Dy. General Manager (T)
NHAI, RO-Bengaluru

Copy to: PD, PIU-Tumkur/Chitradurga/Dharwad - To conduct Joint Inspection with BESCOM Officials and identify the suitable sites for onward reporting to NHAI HQ for necessary directions.

Gaurav Gupta, I.A.S.,
Additional Chief Secretary to Government
Energy Department

Karnataka Government Secretariat
Room No. 236, 2nd Floor, Vikasa Soudha
Dr. Ambedkar Veedhi, Bengaluru-560 001.

D.O. No: ENERGY/126/VSC/2023 **Dated: 10.07.2023**

Sri

Sub: Developing Green Corridors for EV Charging Infrastructure and Lighthouse corridors-reg

Ref: 1. DO No: ENERGY/18/VSC/2023 dated 13.01.2023
2. CEO NITI Aayog DO Letter No: 1/5/2019-Tpt dated 25.04.2023

*****

Inviting kind attention to the DO letter cited under reference (1) wherein it was requested to provide necessary space required for installing EV Chargers and extend support to BESCOM to set up EV fast charging stations along toll plazas of Bengaluru-Pune National Highway (NH-48) within Karnataka.

CEO, NITI Aayog vide DO letter cited under reference (2) has proposed the concept of "**Green Corridors**" – a designated route equipped with adequate charging infrastructure at suitable intervals and one "**Lighthouse corridor**" for saturation of charging infra (copy enclosed).

Bengaluru Electricity Supply Company (BESCOM), the State nodal agency for setting up of EV Charging infrastructure has proposed a pilot proposal for development of Lighthouse corridor for EV Charging infrastructure along NH-48 (Bengaluru-Pune) toll plazas within Karnataka Limits. Copy of the pilot proposal is enclosed herewith. The Proposal encourages more people to adopt EVs and help create a sustainable and innovative new business opportunity.

In this regard, I would request you to consider the proposal of Lighthouse Corridor along NH-48 and provide required space for installing EV Chargers and extend support to BESCOM to move forward with the proposal.

With

Address a letter to BESOM for Joint inspection with PD, Tum/CID & Dharwad.
26/7/23
KIRAN

Yours sincerely,
Sd/-
(**Gaurav Gupta**)

To:

Sri. Santhosh Yadav, IAS,
Chairman,
National Highways Authority of India,
G-5 & 6, Sector-10,
Dwaraka, New Delhi – 110 075

Copy to:

1. The Managing Director, BESCOM, Corporate Office, K.R. Circle, Bengaluru for necessary action and to follow up.
2. Sri. Vivek Jaiswal, Regional officer, National Highway Authority of India, Manjunatha Nagar, Bagalakunte, Bengaluru – 560 073.

(**Gaurav Gupta**)

Tel : +91-80-2225 2373 / 2203 4648 E-mail : prs-energy@karnataka.gov.in / prs.energy@gmail.com

MoM on 21-7-23

(1) It is suggested to keep these charging stations under Flyovers, or VUPs etc at the suitable locations on NH

(2) Proposal as for. infrastructure and Display boards

(3) Landscaping provision may also be included through the vendor's scope

(4) Sharing as proposed will be inform to HQ as per. GOI circular dtd 7.11.22. Para - 9.2

(5) Survey by 15th Aug.

21/7/23
RO Bangalore

DGM(EW)
BESCOM

21/7/23
AGM(EV)
BESCOM

Praveen to inform

Pl. take action PDs.

G. Kumar Naik, IAS,
Additional Chief Secretary to Government,
Energy Department,

Karnataka Government Secretarial
Room No. 236, 2nd Floor,
Vikasa Soudha, Bengaluru - 560 001.

D.O. No: ENERGY/18/VSC/2023 **Dated:13.01.2023**

Sub: Proposal for setting up of EV Fast Charging Stations on pilot basis along NH48 (Bengaluru-Pune) within the State of Karnataka-reg

Ref: MD, BESCOM Letter No: BESCOM/MD/PS/BC-01/2022-23/145 Dated:21.12.2022.

*****

As you are aware that transportation sector is fully dependent on fossil fuels and accounts for huge Carbon emissions. Advancement of technologies and innovations has paved way for efficient battery-operated Electric Vehicles (EVs). EVs can be a game changer in terms of reduction in CO_2 emissions. Ministry of Power has issued 'Charging Infrastructure for Electric Vehicles (EV) – the revised consolidated guidelines & standards on 14.01.2022 and 07.11.2022.

Bengaluru Electricity Supply Company (BESCOM) being the State nodal agency for setting up of EV Charging infrastructure has installed 320 chargers at more than 200 locations in the city. Action has also been initiated to install around 3269 chargers at various locations across the State.

EV sales have seen a massive rise in the State and around 20 Lakhs EVs are expected by 2025, establishment of charging stations on fast track is the need of the hour. In this regard, BESCOM proposes to set up EV fast charging stations along toll plazas of Bengaluru-Pune National Highway (NH-48) within Karnataka in coordination with National Highway Authority of India as detailed in the letter cited under reference. This proposal aims to provide a convenient and reliable way to recharge electric vehicles while on long journeys for EV commuters.

ಸಂಖ್ಯೆ 17 JAN 2023 6797

In view of the above, it is hereby requested to provide necessary space required for installing EV Chargers and extend support to BESCOM to move forward with the proposal.

With

ಉಪ ಪ್ರಧಾನ ವ್ಯವಸ್ಥಾಪಕರು
ಎಸ್.ಜಿ ಮತ್ತು ಇ.ವಿ ಶಾಖೆ
ಬೆಸ್ಕಂ, ಬೆಂಗಳೂರು – 560001.
ಸಂಖ್ಯೆ 887 ದಿನಾಂಕ 20/1/23
ವ್ಯವಸ್ಥಾಪಕರು-1

Yours sincerely,
Sd/-
(G. Kumar Naik)

To:

Sri. Vivek Jaiswal,
Regional Officer, National Highways Authority of India,
Manjunatha Nagar, Bagalakunte,
Bengaluru – 560 073.

Copy:

✓ The Managing Director, BESCOM, Corporate Office, K.R. Circle, Bengaluru for necessary action and to follow up. To file

(G. Kumar Naik)

Tel. 080-2225 2373 / 2203 4648 + Email : prs.energy@gmail.com

Bangalore Electricity Supply Company Limited

Corporate Office: K R Circle, Bengaluru 560 001
Ph: +91 80 2235 4329
E-mail: md@bescom.co.in
https://bescom.karnataka.gov.in

Mahantesh Bilagi, IAS
Managing Director

No: BESCOM/MD/PS/BC-01/2022-23/ 145 **Date:** 21-12-22

To,

Regional Officer, National Highways Authority of India
2GX2 + 6CW,
Bangalore - Shivamogga Rd,
Manjunatha Nagar,
Bagalakunte,
Bengaluru,
Karnataka 560073.

Sir / Madam,

Sub: Request to consider draft proposal for pilot project for Setting up EV fast charging stations along NH48 (Bengaluru- Pune Stretch) within Karnataka Limits

Ref: (1) EN 816 VSC 2021 **dated:** 28.12.2018.

****

With reference to the above subject, BESCOM is the state nodal agency for EV adoption and setting up of EV charging infrastructure in the state. In this context, a draft proposal for setting up EV fast charging stations along toll plazas of National Highway (NH-48) Bengaluru-Pune within Karnataka limits has been prepared and enclosed for your kind consideration.

The proposal outlines our plan to install a number of EV charging stations at selected toll plazas, with an aim of providing EV commuters a convenient and reliable way to recharge their vehicles while on long journeys without any range anxiety.

We believe that this proposal has the potential to make a significant contribution to the growth of EV and we would be grateful if you could review the proposal and provide us with your suggestions and feedback (if any).

National Highways Authority of India
22 DEC 2022
KNT-RO

Hence, I request your kind self to consider the proposal and accord an approval for the proposals to move forward with this project.

Thanking you,

Yours faithfully,

Managing Director,
BESCOM

Copy to:

1. PS to Honourable ACS Energy, to place before ACS, Energy.
2. M/F.

SETTING UP ELECTRIC VEHICLE CHARGING STATIONS AT TOLL PLAZAS OF NH-48 BETWEEN BENGALURU - PUNE, WITHIN KARNATAKA LIMITS

National Highway Authority of India (NHAI)

Abstract

This draft pilot proposal is prepared by Bangalore Electricity Supply Company Limited for setting up of EV Charging Stations at Toll Plazas of NH-48 between Bengaluru-Pune stretch, within Karnataka limits of NH-48

SMART GRID & ELECTRIC VEHICLE CELL, BESCOM

dgmsg@bescom.co.in

Contents

1. EV Charging Infrastructure at Toll Plazas of NH-48 (between Bengaluru-Pune) within Karnataka Limits.

Electric Vehicle (EV) market in India is still at a nascent stage. Charging infrastructure is considered as one of the key enabling factors for electric mobility to take off in India as it removes 'range anxiety' which is one of the barriers for large scale penetration of EVs.

Under GoK's "Electric Vehicle and Energy Storage Policy -2017", BESCOM has taken various initiatives in implementation of the policies towards adoption of the e-mobility in Karnataka and has already installed 200+ charging points in the Bengaluru City.

Under the provisions of "Charging Infrastructure for Electric Vehicles – Guidelines and Standards" by Ministry of Power, GoI, BESCOM is the **State Nodal Agency** for setting up EV Charging Stations in Karnataka.

Bengaluru being one among the nine mega cities as notified by Ministry of Power in the revised Guidelines and Standards for EV PCI, is expected to see high EV adoption by the year 2030.

BESCOM has already installed Chargers at 200+ locations in the city with support from the Transport Department, Government of Karnataka.

To support Govt. of Karnataka's EV Policy and to facilitate GoI's E-Mobility mission, BESCOM wishes to kick-start a pilot project plan to setup EV fast charging stations at **10 Toll Plazas of** Bengaluru – Pune Highway within Karnataka limits.

The proposed Fast Charging Stations along NH-48 (Bengaluru-Pune highway) will have 02 no. of 120 KW CCS2 EV Fast Chargers (1 charger on LHS and 1 charger on RHS) having 2 guns (60 KW power dispensing capacity per gun when used simultaneously).

1.1. Identified Tentative Locations for the Pilot Project

Tentative locations for the pilot project were identified after interaction/discussions with NHAI officials and verifying the same on NHAI website.
The identified tentative locations details are as annexed in **Annexure-I**.

1.2. Location Survey & Joint Inspection

The Location survey will be carried out by BESCOM officials jointly with designated NHAI officials for finalizing the list of toll plaza locations.

The locations will be finalized after carrying out a joint inspection with NHAI officials subject to the following considerations:

i. Availability of minimum of 10m x 7m (Width x Depth) is required for parking of 02 Four wheelers and accommodation of EVSE along with a distribution transformer.

ii. Ease of location accessible to the public.

A sample layout of the proposed EV Fast charging station at toll plaza is annexed as **Annexure-III.**

2. Roles & Responsibilities

2.1. National Highway Authority of India (NHAI) shall

1. Provide consent for collaborating with BESCOM.
2. Designate NHAI official for joint location assessment at toll plazas of NH-4 (Bengaluru-Pune Highway within Karnataka) for the proposed pilot project.
3. Undertake location assessment in association with BESCOM, which shall follow the joint approval for the same.
4. Provide necessary approvals for taking up the works in the finalized toll plaza locations.
5. Provide access to location and right of way for Electric Vehicle Charging.
6. Provide NOC for installation of Public Charging Stations (PCS) at the identified and finalised toll plaza locations in NH-4 (Bengaluru-Pune highway) within Karnataka limits.
7. Create awareness of installed charging units on amongst general public through available means.
8. Extend all necessary support to BESCOM for smoother & faster creation of EV ecosystem for the proposed pilot project.
9. Provide any other administrative support required for the enablement and smooth implementation of EV charging infrastructure in mutually agreed toll plaza locations of NH-4 (Bengaluru-Pune Highway) within Karnataka.

2.2. BESCOM shall

1. Plan, Design, Develop, Invest-in, Operate and Maintain the interoperable Electric Chargers along with its associated infrastructure for electric cars.
2. Support NHAI to setup a charging infrastructure at mutually agreed toll plaza locations of NH-4 (Bengaluru-Pune Highway) within Karnataka.
3. Design the overall system for EV charging infrastructure in mutually agreed toll plaza locations of NH-4 (Bengaluru-Pune Highway) within Karnataka.

4. Provide any other administrative support required for the enablement and smooth implementation of EV charging infrastructure in mutually agreed toll plaza locations of NH-4 (Bengaluru-Pune Highway) within Karnataka.
5. Availing Power Supply from the jurisdictional DISCOM office as per prevailing KERC norms.
6. Create awareness of Charging Units amongst general public.
7. Operate and maintain the Charging Unit and Related Infrastructure in a manner that does not cause any physical restriction of any kind on other stakeholder assets of NHAI.
8. Undertake all works related to civil infrastructure creation required for installation of PCS in finalized toll plaza locations of NHAI as per **Annexure-II**.
9. Undertake all works related to electrical infrastructure creation required for installation of PCS in finalized toll plaza locations of NHAI as per **Annexure-II**.
10. Availing central and state subsidies available for Charging Units.

3. Duration of the Project

The project shall be for a period of 10 years and shall be extended based on mutually agreed terms and conditions.

4. Ownership

The ownership and maintenance of the Electric Vehicle Charging Stations shall vest with BESCOM during the period of contract. BESCOM shall have all the rights to take back / remove the assets from the location within 90 days from expiry of the contract.

5. Commercial Arrangements

BESCOM & NHAI shall execute a commercial agreement on REVENUE SHARING MODEL for project undertaken as per **G.O No EN 816 VSC 2021** dated: 28.02.2022.

BESCOM shall share Rs. 1.00/- per KWH + taxes on the total energy recorded through EV charging.

The EV charging CMS portal access shall be given to NHAI for verification of the records.

ANNEXURE-I

The Tentative list of proposed toll plaza locations is as follows:

SL. No	Project Name	Kms. of Tollable Reach	NH	Plaza Location	Plaza Name	PIU
1	Neelamangala to Tumkur from Km.29.50 to Km.62.00 along NH-48 (old Nh-4)	32.5	48	32	Kulumepalya	Chitradurga
2			48	61.4	Chokkenahalli	Chitradurga
3	Tumkur-Chitradurga from km 75.00 to km 189.00	57	48	104.53	Karjeevanhally	Chitradurga
4		57	48	172.77	Guilalu	Chitradurga
5	Doddasiddanahally to Hadadi for the section from Km. 189.000 to Km. 260.000	71	48	237.65	Hebbalu	Chitradurga
6	Davanagere to Haveri from Km.260.000 Km 338.923	80	48	285+961	Chalageri	Chitradurga
7	Six laning of Haveri (Km 340) to Hubli (Km 403.400)	63.4	48	352.55	Bankapur	Dharwad
8	Six laning of Belgaum – Dharwad Section of NH-4 from Km.433.00 to Km.515.00	79.36	48 (old NH-4)	482.6	Hirebagewadi	Dharwad
9	Belgaum-Maharashtra Border Section from Km. 515 to Km.592	22.77	48	537.77	Hattargi	Dharwad
10		54.94	48	591.24	Kognoli	Dharwad

ANNEXURE-II

Scope of BESCOM for the proposed works are as enumerated below:

1. Supply, installation and commissioning of EV supply equipment along with associated accessories for the finalized toll plaza locations (**Note:** Locations will be finalized after joint location assessment).
2. Drilling of suitable bore by HDD or trench and laying of UG cable of suitable length along HDPE/PLB Pipe including preparation at site.
3. Supply, installation and commissioning of Transformers of suitable capacity for the finalized toll plaza locations.
4. Cabling works from nearest tapping point to Transformer and LT Distribution box.
5. Cabling from Distribution Box to EV Chargers.
6. Setting up of Metering Cubicle with Distribution board and ETV meter.
7. Testing & Commissioning Charges (for Transformer, RMU, HTMC, EVSE).
8. Foundation and civil works for Metering cubicle, Distribution Panel and Electric Vehicle Chargers.
9. Operation & Maintenance of the commissioned EVSE during the contract period.

Scope of NHAI for the proposed works are as enumerated below:

1. Facilitate joint location assessment with BESCOM official for the proposed toll plaza locations mentioned in **Annexure-I**.
2. Provide access to BESCOM officials and vendors to all the finalized toll plaza locations along NH-4 (Bengaluru-Pune Highway).
3. Provide necessary approvals for taking up the works in the finalized toll plaza locations.
4. Provide any other administrative support required for the enablement and smooth implementation of EV charging infrastructure in mutually agreed toll plaza locations of NH-4 (Bengaluru-Pune Highway) within Karnataka.

ANNEXURE-III

Sample Layout of the Proposed EV Fast Charging station is as shown below:

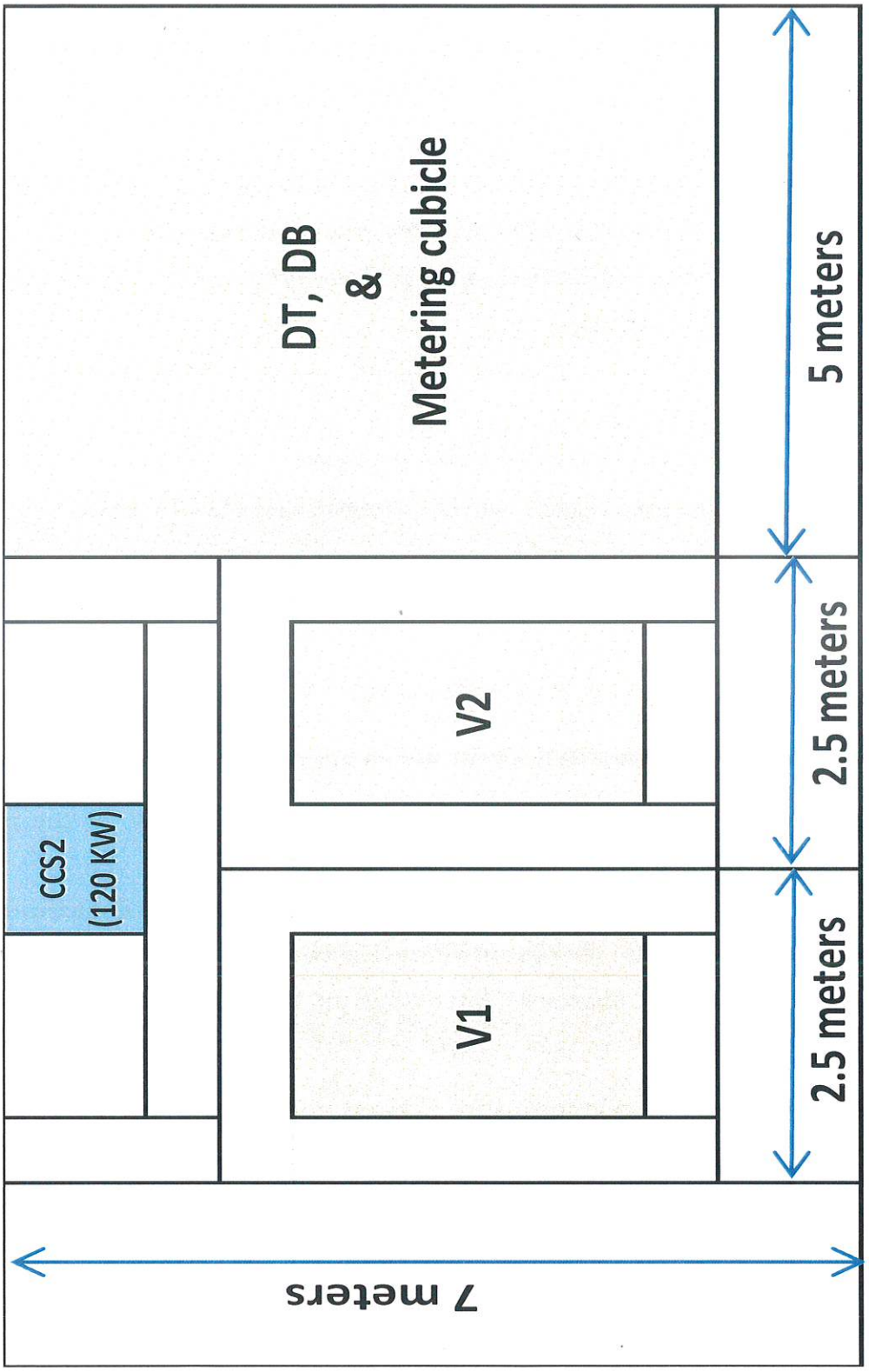
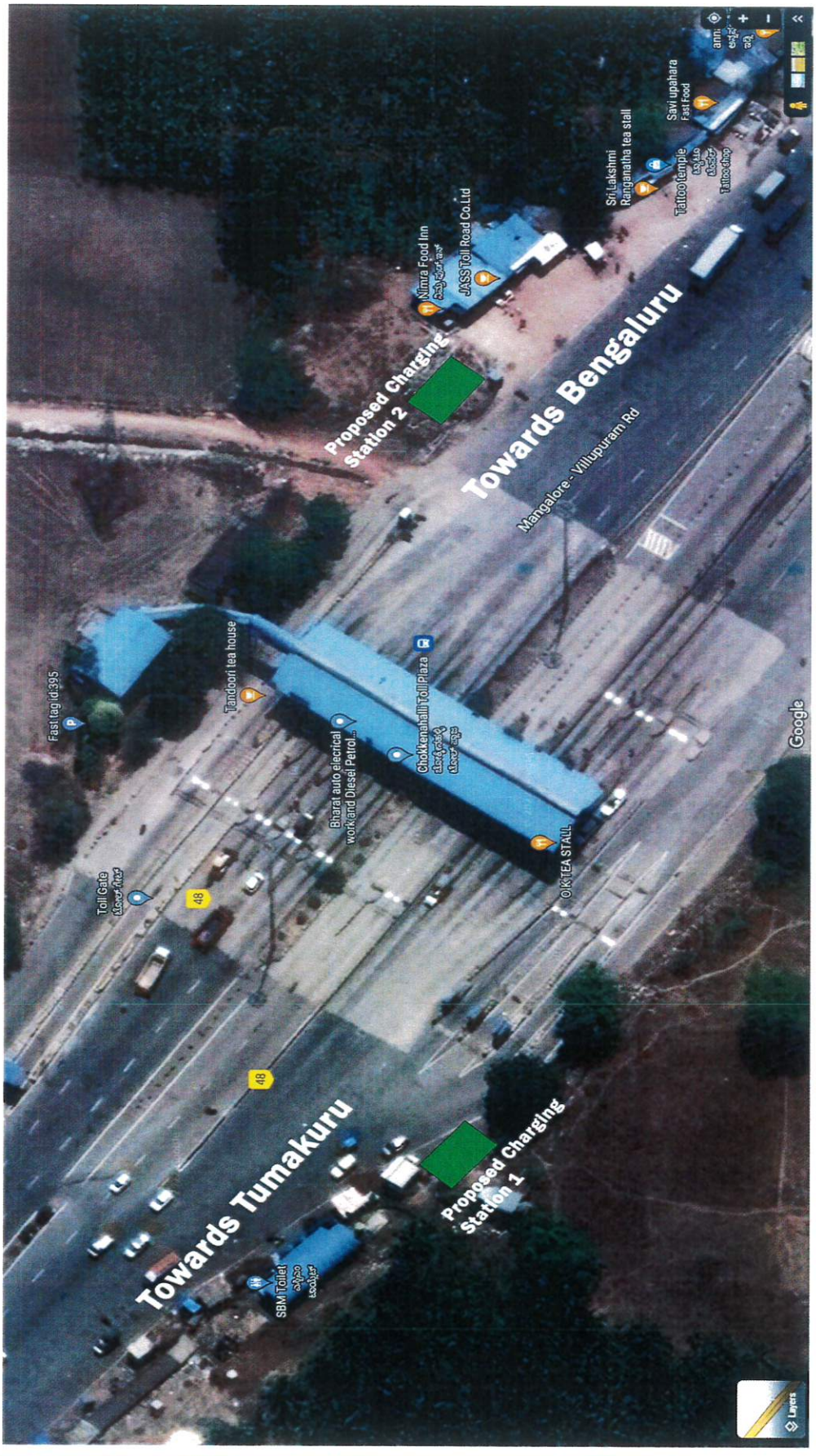
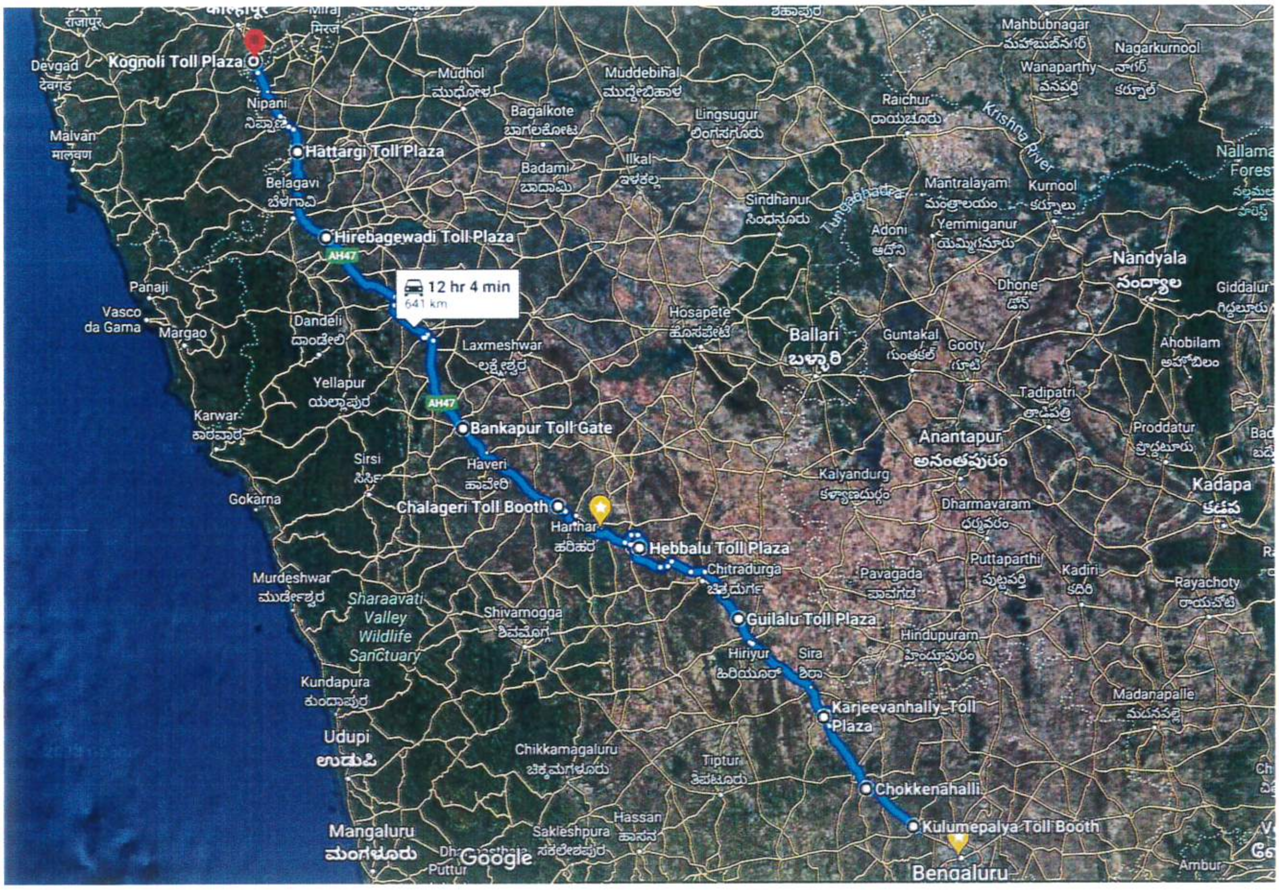
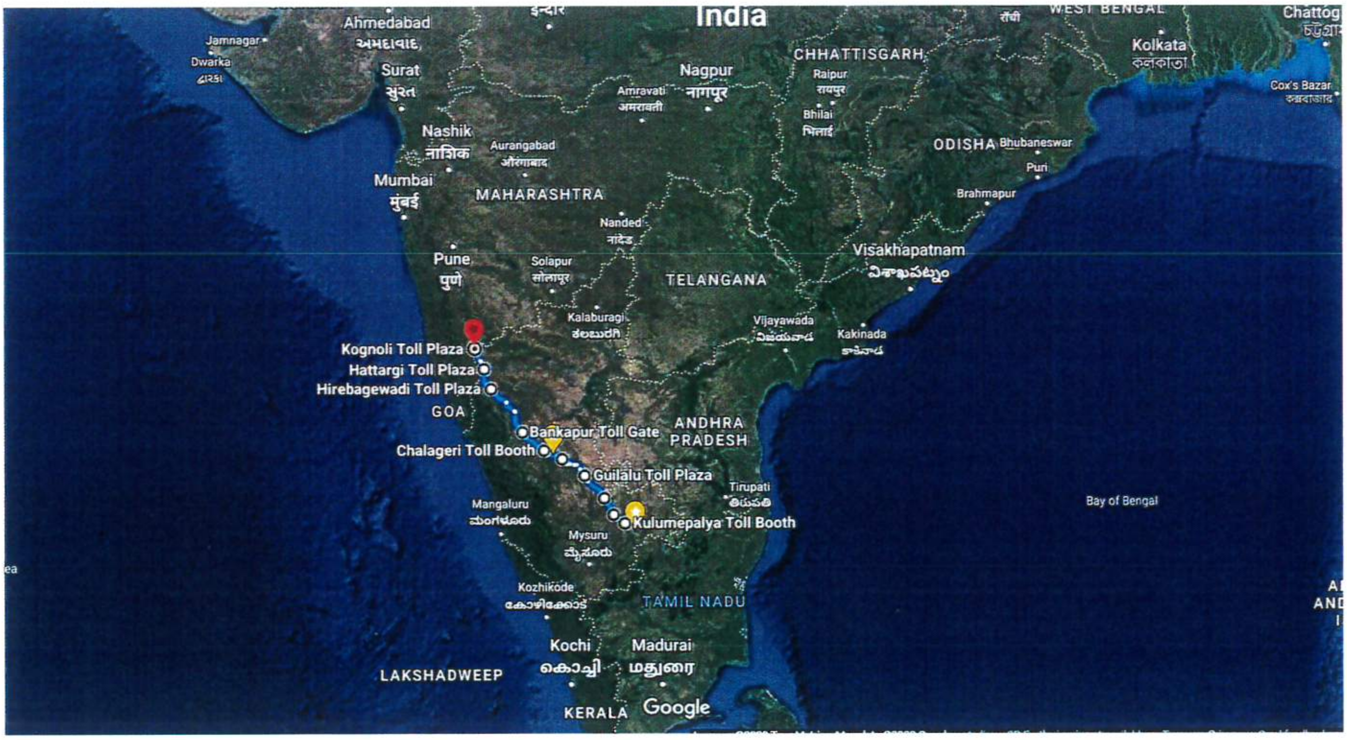


Figure 1: Sample Layout for EV Charging Station

SMAPLE LAYOUT PROPOSING EV CHARGING STATIONS AT CHOKKENAHALLI TOL PLAZA




Kognoli Toll Plaza
Nipani
Hattargi Toll Plaza
Belagavi
Hirebagewadi Toll Plaza
AH47
12 hr 4 min
641 km
Bankapur Toll Gate
Haveri
Chalageri Toll Booth
Harihar
Hebbalu Toll Plaza
Chitradurga
Guilalu Toll Plaza
Hiriyur
Sira
Karjeevanhally Toll Plaza
Chokkenahalli
Kulumepalya Toll Booth
Bengaluru
Mudhol
Muddebihal
Bagalkote
Badami
Lingsugur
Raichur
Sindhanur
Mantralayam
Kurnool
Adoni
Yemmiganur
Nandyala
Dhone
Hospete
Ballari
Guntakal
Gooty
Tadipatri
Anantapur
Kalyandurg
Dharmavaram
Puttaparthi
Kadiri
Pavagada
Hindupuram
Madanapalle
Kadapa
Proddatur
Rayachoty
Ahobilam
Giddalur
Mahbubnagar
Wanaparthy
Nagarkurnool
Panaji
Vasco da Gama
Margao
Dandeli
Yellapur
Laxmeshwar
Karwar
Sirsi
Gokarna
Murdeshwar
Sharaavati Valley Wildlife Sanctuary
Shivamogga
Kundapura
Udupi
Chikkamagaluru
Tiptur
Hassan
Sakleshpura
Mangaluru
Puttur
Devgad
Malvan
Ilkal
Ambur
Google


India
Ahmedabad
Jamnagar
Dwarka
Surat
Nashik
Aurangabad
Mumbai
MAHARASHTRA
Amravati
Nagpur
CHHATTISGARH
Raipur
Bhilai
ODISHA
Bhubaneswar
Puri
Brahmapur
Kolkata
Cox's Bazar
Nanded
Pune
Solapur
TELANGANA
Visakhapatnam
Kalaburagi
Vijayawada
Kakinada
Kognoli Toll Plaza
Hattargi Toll Plaza
Hirebagewadi Toll Plaza
GOA
Bankapur Toll Gate
Chalageri Toll Booth
ANDHRA PRADESH
Guilalu Toll Plaza
Tirupati
Mangaluru
Kulumepalya Toll Booth
Mysuru
Bay of Bengal
Kozhikode
TAMIL NADU
Kochi
Madurai
LAKSHADWEEP
KERALA
Google

SETTING UP EV FAST CHARGING STATIONS ALONG NH-48 TOLL PLAZAS (BENGALURU – PUNE) WITHIN KARNATAKA LIMITS

SMART GRID & ELECTRIC VEHICLE CELL, BESCOM

Introduction

Electric Vehicle (EV) market in India is still at a nascent stage and one of the barriers for large scale adoption of EVs is the 'Range Anxiety'.

Charging infrastructure is one of the key enabling factors for E-mobility as it helps remove 'Range Anxiety'.

MoP notified Revised Guidelines and Standards for EV Public Charging Infrastructure (PCI) and Bengaluru is one among the nine mega cities expected to see high EV adoption by 2030.

BESCOM is designated as the **State Nodal Agency** by MoP for setting up EV Charging Stations in Karnataka.

BESCOM has already installed Chargers at 200+ locations in the city with support from the Transport Department, Government of Karnataka.

Motivation for the Pilot project

Highlights of the Revised MoP guidelines for EV Charging Infrastructure dated JAN-2022 are as follows:

Clause 4 – Public Charging Infrastructure (PCI) for long range EVs.

- Public Charging Infrastructure for long range EVs (i.e. Fast Charging stations) shall have at least TWO (2) chargers of min 100 KW capacity (CCS / CHAdeMO).

Clause 5 – Location of Public Charging Stations.

- One Charging station shall be set up at every 25 KM on both sides of highways/roads.
- For long range EVs, there shall be at least one Fast Charging Station of min 100 KW capacity at every 100 Kms on each side of the highways / roads.

Clause 9 – Provision of land at promotional rates for Public Charging Stations.

- Government / Public entities shall provide land for installation of Public Charging Stations to Govt./Public Entities on a Revenue Sharing basis for installation of PCS at a fixed rate of **₹1/KWh.**
- Proposed Initial Period of Revenue Sharing Agreement – At least 10 Years.

Objective

- To promote large scale EV adoption in the state by setting up FCS along highways.
- To support GoK's EV Policy and to make Karnataka a preferred destination for development of electric mobility.
- To enhance EV user experience for long range EV owners / users by setting up FCS along highways.

Methodology

Inline with MoP Guidelines for setting up FCS along highways, this pilot envisages to setup EV fast charging stations at **10 Toll Plazas of** Bengaluru – Pune Highway within Karnataka limits.

Each Toll plaza shall have DC Fast Charger

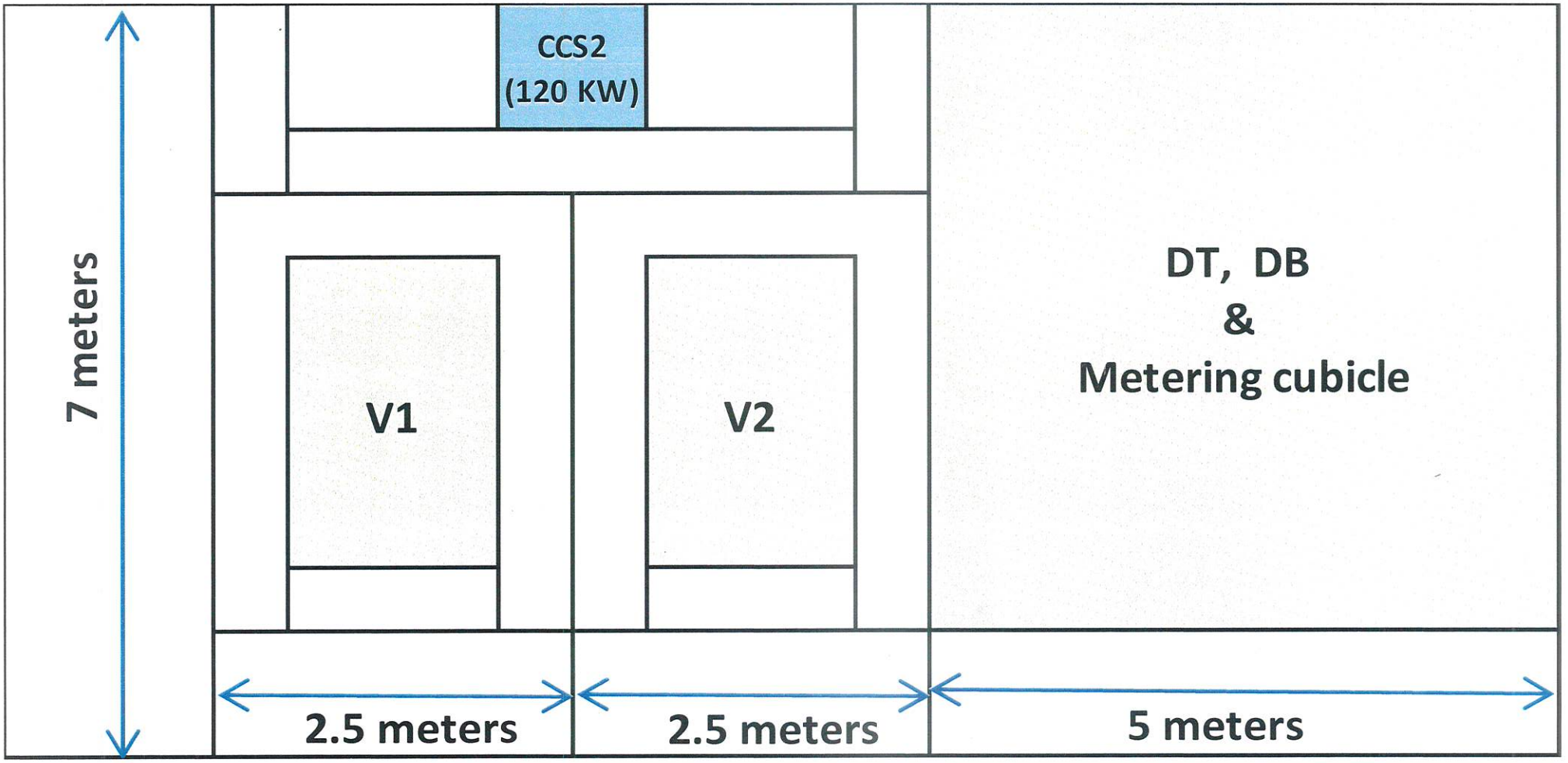
The Proposed Fast charging stations shall have Two (2) nos. of DC Fast chargers with configuration as follows:

- 120 KW CCS2 (60 KW + 60 KW dual gun) charger at each Toll Plaza.
- Proposed 120 KW DC Fast charger will have Two (2) guns with power dispensing capacity of 60 KW per gun and can be used to charge Two (2) EVs simultaneously.

One Charger proposed on Left Hand side of Highway and other Charger proposed on Right Hand side of the highway (i.e. NH-48, Bengaluru – Pune Stretch) within Karnataka Limits.

Locations / Tolls identified are only tentative and to be finalized after location survey and joint inspection with NHAI officials.

Proposed Schematic of a EVCS at Toll Plaza



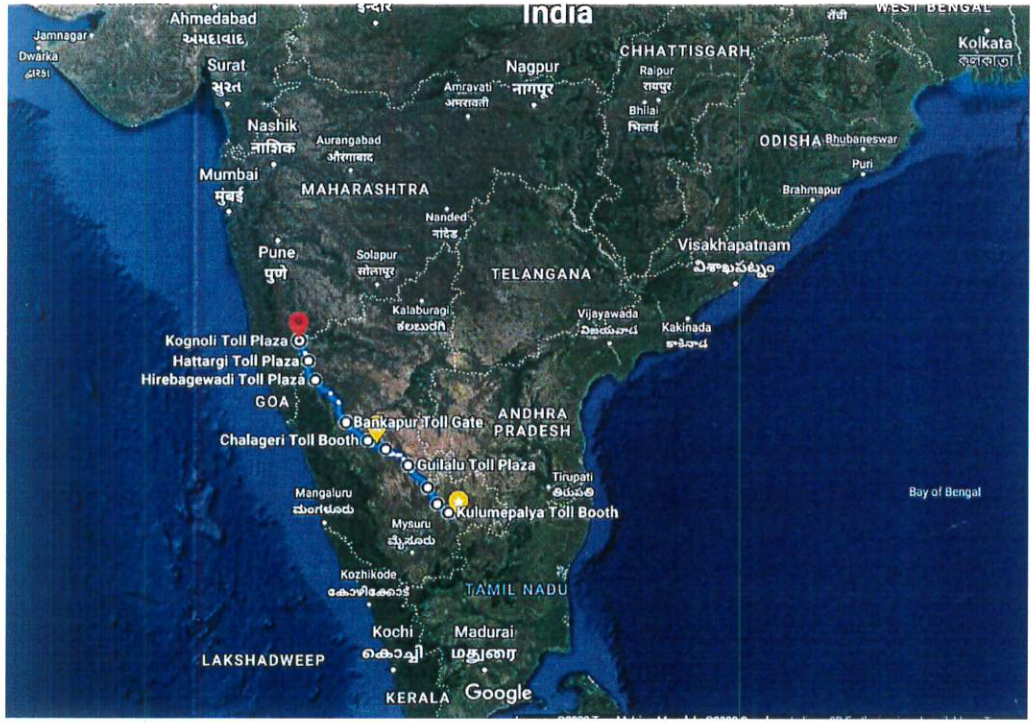
Map View – Proposed Sample EVCS

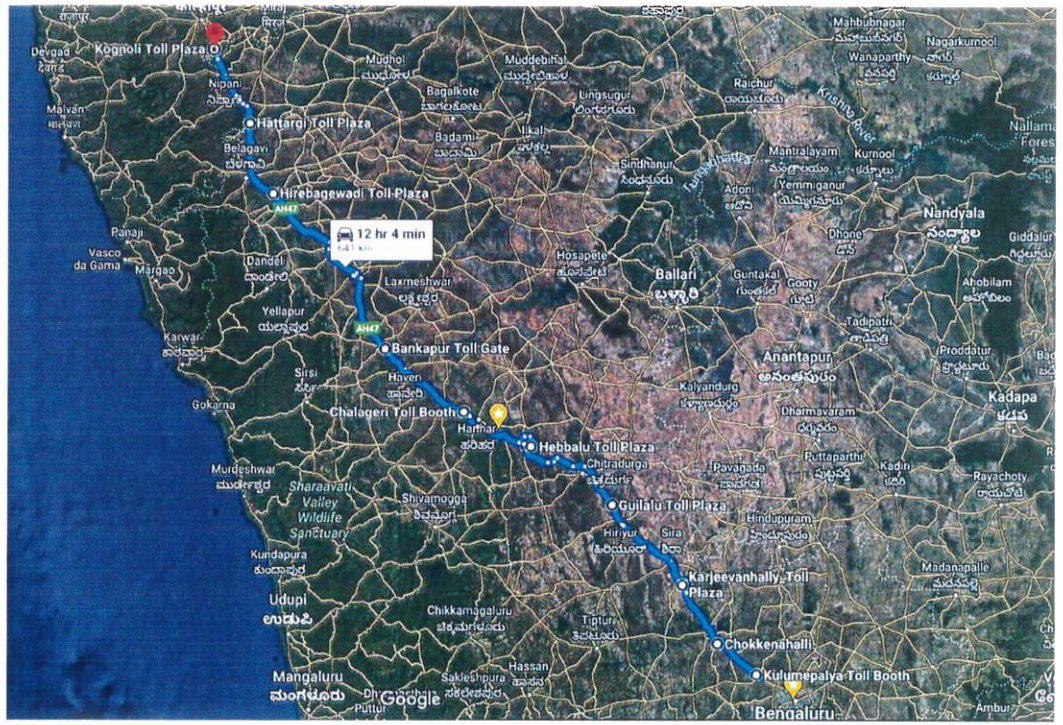
SMAPLE LAYOUT PROPOSING EV CHARGING STATIONS AT CHOKKENAHALLI TOL PLAZA

List of Identified locations (Tentative)

SL. No	Project Name	Kms. of Tollable Reach	NH	Plaza Location	Plaza Name	PIU
1	Neelamangala to Tumkur from Km.29.50 to Km.62.00 along NH-48 (old Nh-4)	32.5	48	32	Kulumepalya	Chitradurga
2			48	61.4	Chokkenahalli	Chitradurga
3	Tumkur-Chitradurga from km 75.00 to km 189.00	57	48	104.53	Karjeevanhally	Chitradurga
4		57	48	172.77	Guilalu	Chitradurga
5	Doddasiddanahally to Hadadi for the section from Km. 189.000 to Km. 260.000	71	48	237.65	Hebbalu	Chitradurga
6	Davanagere to Haveri from Km.260.000 Km 338.923	80	48	285+961	Chalageri	Chitradurga
7	Six laning of Haveri (Km 340) to Hubli (Km 403.400)	63.4	48	352.55	Bankapur	Dharwad
8	Six laning of Belgaum – Dharwad Section of NH-4 from Km.433.00 to Km.515.00	79.36	48 (old NH-4)	482.6	Hirebagewadi	Dharwad
9	Belgaum-Maharashtra Border Section from Km. 515 to Km.592	22.77	48	537.77	Hattargi	Dharwad
10		54.94	48	591.24	Kognoli	Dharwad

Identified toll locations on NH 48





Location Survey & Joint Inspection

BESCOM officials will carry out location survey jointly with designated NHAI officials for finalizing the list of toll plaza locations.

After joint inspection with NHAI officials final locations will be decided subject to the following considerations:

- Availability of minimum of 10m x 7m (Width x Depth) is required for parking of 02 Four wheelers and accommodation of EVSE along with a distribution transformer.

- Ease of location accessible to the public.

Expectations from NHAI

Provide consent for collaborating with BESCOM.

Designate NHAI official for joint location assessment at toll plazas of NH-4 (Bengaluru-Pune Highway within Karnataka) for the proposed pilot project.

Undertake location assessment in association with BESCOM, which shall follow the joint approval for the same.

Provide necessary approvals for taking up the works in the finalized toll plaza locations.

Provide access to location and right of way for Electric Vehicle Charging.

Provide NOC for installation of Public Charging Stations (PCS) at the identified and finalised toll plaza locations in NH-4 (Bengaluru-Pune highway) within Karnataka limits.

Create awareness of installed charging units on amongst general public through available means.

Extend all necessary support to BESCOM for smoother & faster creation of EV ecosystem for the proposed pilot project.

Provide any other administrative support required for the enablement and smooth implementation of EV charging infrastructure in mutually agreed toll plaza locations of NH-4 (Bengaluru-Pune Highway) within Karnataka.

Expectations from BESCOM

Plan, Design, Develop, Invest-in, Operate and Maintain the interoperable Electric Chargers along with its associated infrastructure for electric cars.
Support NHAI to setup a charging infrastructure at mutually agreed toll plaza locations of NH-4 (Bengaluru-Pune Highway) within Karnataka.
Design the overall system for EV charging infrastructure in mutually agreed toll plaza locations of NH-4 (Bengaluru-Pune Highway) within Karnataka.
Provide any other administrative support required for the enablement and smooth implementation of EV charging infrastructure in mutually agreed toll plaza locations of NH-4 (Bengaluru-Pune Highway) within Karnataka.
Availing Power Supply from the jurisdictional DISCOM office as per prevailing KERC norms.
Create awareness of Charging Units amongst general public.
Operate and maintain the Charging Unit and Related Infrastructure in a manner that does not cause any physical restriction of any kind on other stakeholder assets of NHAI.
Undertake all works related to civil infrastructure creation required for installation of PCS in finalized toll plaza locations of NHAI.
Undertake all works related to electrical infrastructure creation required for installation of PCS in finalized toll plaza locations of NHAI.
Availing central and state subsidies available for Charging Units.

Other Project Details

Duration

- Proposed duration of the Revenue Sharing Agreement as per MoP Guideleines would be 10 years and shall be extended based on mutually agreed terms and conditions.

Ownership

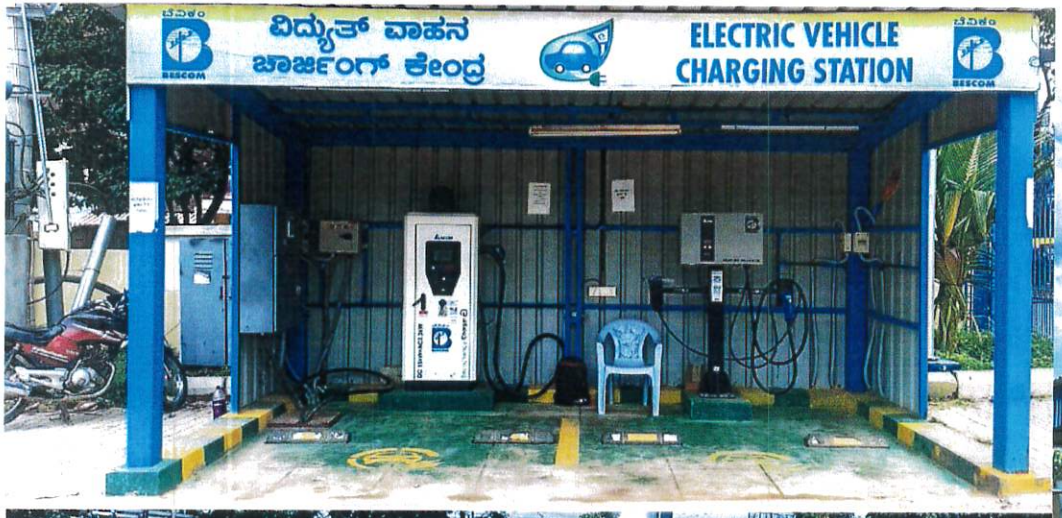
- The ownership and maintenance of the Electric Vehicle Charging Stations shall vest with BESCOM during the period of contract.
- BESCOM shall have all the rights to take back / remove the assets from the location within 90 days from expiry of the contract.

Commercial Arrangements

- BESCOM & NHAI shall execute a commercial agreement on REVENUE SHARING MODEL for project undertaken as per **G.O No EN 816 VSC 2021** dated: 28.02.2022.
- BESCOM shall share Rs. 1.00/- per Unit Consumed + taxes on the total energy recorded through EV charging.
- The EV charging CMS portal access shall be given to NHAI for verification of the records.

EVCS concept

BESCOM EVCS


ವಿದ್ಯುತ್ ವಾಹನ
ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರ
ELECTRIC VEHICLE
CHARGING STATION


ವಿದ್ಯುತ್ ವಾಹನ
ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರ
ELECTRIC VEHICLE
CHARGING STATION

ಎಲೆಕ್ಟ್ರಿಕ್ ವೆಹಿಕಲ್‌ಗಳ ಜಮಾನ ಶುರುವಾಗಿದೆ. ಪೆಟ್ರೋಲ್ ಬಂಕ್ ರೀತಿಯಲ್ಲಿ ಎಲೆಕ್ಟ್ರಿಕ್ ಚಾರ್ಜಿಂಗ್ ಸ್ಟೇಷನ್‌ಗಳ ಸಂಖ್ಯೆ ಎಲ್ಲೆಂದರಲ್ಲಿ ಹೆಚ್ಚುವ ದಿನಗಳು ದೂರವಿಲ್ಲ. ಯಾರೂ ಇ-ಚಾರ್ಜಿಂಗ್ ಸ್ಟೇಷನ್‌ಗಳನ್ನು ತೆರೆಯಬಹುದು. ಈ ಉದ್ಯಮಕ್ಕೆ ಬಂಡವಾಳ ಎಷ್ಟು ಬೇಕು? ಇದನ್ನು ಆರಂಭಿಸುವುದು ಹೇಗೆ? - ಈ ಕುರಿತ ಉಪಯುಕ್ತ ಮಾಹಿತಿ ಇಲ್ಲಿದೆ.

ಇವಿ ಬಂಕ್ ಜಮಾನ

ಎಲೆಕ್ಟ್ರಿಕ್ ವೆಹಿಕಲ್ ಚಾರ್ಜಿಂಗ್ ಸ್ಟೇಷನ್ ತೆರೆಯುವುದು ಹೇಗೆ?

ವಿಕ EXPLAINER

■ ನಾಗರಾಜು ಅಷ್ಟ್ ಬೆಂಗಳೂರು ಗ್ರಾಮಾಂತರ
nagaraju.a@timesgroup.com

ಪೇಟೆಯಲ್ಲಿ ಅಥವಾ ನಗರಗಳಲ್ಲಿ ಪ್ರತಿ ಅರ್ಧರ್ಧ ಮೈಲುಗೊಂದು ಪೆಟ್ರೋಲ್ ಬಂಕ್ ಕಾಣಸಿಗುತ್ತವೆ. ಆದರೆ, 2030ರ ವೇಳೆಗೆ ಪೇಟೆಯ ಚಿತ್ರಣವೇ ಬದಲಾಗಿರುತ್ತದೆ. ಆಗ ಬಂಕ್‌ಗಳಿಗಿಂತ ಅಧಿಕ ಸಂಖ್ಯೆಯಲ್ಲಿ ಎಲೆಕ್ಟ್ರಿಕ್ ವೆಹಿಕಲ್ ಚಾರ್ಜಿಂಗ್ ಸ್ಟೇಷನ್‌ಗಳೇ ಎಲ್ಲೆಡೆ ಎದ್ದಿರುತ್ತವೆ. ಪೆಟ್ರೋಲ್ ಬಂಕ್‌ನಂತೆ, ಇವಿ ಚಾರ್ಜಿಂಗ್ ಸ್ಟೇಷನ್‌ಗಳನ್ನು ತೆರೆಯುವ ಉದ್ಯಮದ ಟ್ರೆಂಡ್ ಈಗ ಬಲುಜೋರು.

ರಾಜ್ಯಾದ್ಯಂತ ಖಾಸಗಿ ಸಹಭಾಗಿತ್ವದಲ್ಲಿ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳ ಸ್ಥಾಪನೆಗೆ ಇಂಧನ ಇಲಾಖೆ ಅಗತ್ಯ ಪ್ರೋತ್ಸಾಹ ನೀಡುತ್ತಿದೆ. ದಕ್ಷಿಣ ಭಾರತದಲ್ಲೇ ಅತ್ಯಲ್ಪ ಯೂನಿಟ್ ದರ ನೀಡಲಾಗುತ್ತಿದೆ. ತಮಿಳುನಾಡು, ಕೇರಳ ಸೇರಿದಂತೆ ದಕ್ಷಿಣದ ರಾಜ್ಯಗಳ ಪೈಕಿ ಪ್ರತಿ ಯೂನಿಟ್‌ಗೆ 5 ರೂ. ದರದಲ್ಲಿ ವಿದ್ಯುತ್ ಪೂರೈಸಲಾಗುತ್ತಿದೆ. ಜತೆಗೆ, ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳ ಸ್ಥಾಪನೆಗೆ ಏಕಗವಾಕ್ಷಿಯಡಿ ಪ್ರಕ್ರಿಯೆ ಸುಗಮಗೊಳಿಸಲಾಗಿದ್ದು, ಹೊರ ರಾಜ್ಯಗಳಿಗಿಂತ ರಾಜ್ಯದಲ್ಲಿ ಹೆಚ್ಚು ಉತ್ತೇಜನ ಸಿಗುತ್ತಿದೆ.

ಇಂಧನ ಇಲಾಖೆಯಿಂದ ರಾಜ್ಯಾದ್ಯಂತ 1190 ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರ ಸ್ಥಾಪನೆಗೆ ಮುಂದಾಗುತ್ತಿದೆ. ಉಳಿದಂತೆ ಖಾಸಗಿ ಸಹಭಾಗಿತ್ವದಲ್ಲಿ ಉತ್ತೇಜನ ನೀಡಲಾಗುತ್ತಿದೆ. ರಾಜ್ಯದಲ್ಲಿ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರ ಸ್ಥಾಪನೆಗೆ ಬೆಸ್ಕಾಂ ನೋಡಲ್ ಏಜೆನ್ಸಿಯಾಗಿ ಕಾರ್ಯನಿರ್ವಹಿಸುತ್ತಿದ್ದು, ಆನ್‌ಲೈನ್ ಮೂಲಕ ಅರ್ಜಿ ಸಲ್ಲಿಸಬಹುದು. ಖಾಸಗಿ ಸಂಸ್ಥೆಗಳ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರ ಸ್ಥಾಪನೆಗೆ ಜಾಗ, ಹೂಡಿಕೆ ಮೊತ್ತದೊಂದಿಗೆ ಬೆಸ್ಕಾಂನಿಂದ ಸುಲಭವಾಗಿ ಅನುಮತಿ ಪಡೆಯಬಹುದು. ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರ ಸ್ಥಾಪನೆಗೆ ಹೆದ್ದಾರಿ ಬದಿಯ ಹೋಟೆಲ್, ಪೆಟ್ರೋಲ್ ಬಂಕ್ ಸೇರಿದಂತೆ ನಾನಾ ವಲಯಗಳಲ್ಲಿ ಸೀಮಿತ ಸ್ಥಳದ ಲಭ್ಯತೆಯೊಂದಿಗೆ ಈಗಾಗಲೇ ಸಾಕಷ್ಟು ಕಂಪನಿಗಳು ಉದ್ಯಮಕ್ಕಿಳಿದು ಲಾಭದಾಯಕ ಪ್ರಗತಿ ಕಾಣುತ್ತಿವೆ.

ಚಾರ್ಜಿಂಗ್ ಸ್ಟೇಷನ್‌ಗೆ ಬಂಡವಾಳ ಎಷ್ಟು ಬೇಕು?

ಎಲೆಕ್ಟ್ರಿಕ್ ವಾಹನಗಳನ್ನು ಚಾರ್ಜ್ ಮಾಡಲು 2 ವಿಧದಲ್ಲಿ ಯಂತ್ರಗಳು ಸಿಗುತ್ತಿವೆ. ಶೀಘ್ರ ಮತ್ತು ನಿಧಾನವಾಗಿ ಚಾರ್ಜಿಂಗ್ ಸೌಕರ್ಯ ಕಲ್ಪಿಸುವ ಎಸಿ ಮತ್ತು ಡಿಸಿ ಮಾದರಿಯ ಯಂತ್ರಗಳಿವೆ. ಈ ಪೈಕಿ ನಿಧಾನಗತಿಯ ಚಾರ್ಜಿಂಗ್ ಯಂತ್ರಕ್ಕೆ 1 ಲಕ್ಷ ರೂ. ವೆಚ್ಚವಾಗಲಿದ್ದು, ವೇಗದ ಚಾರ್ಜಿಂಗ್ ಯಂತ್ರಗಳಿಗೆ 10 - 15 ಲಕ್ಷ ರೂ. ವೆಚ್ಚ ತಗುಲಲಿದೆ. ಹೆಚ್ಚಿನ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳನ್ನು ಹೊಂದಿರುವ ಬೆಂಗಳೂರಿನ ಜನದಟ್ಟಣೆಯ ಪ್ರದೇಶಗಳಲ್ಲಿ ಹೂಡಿಕೆ ಮಾಡಿರುವ ಕಂಪನಿಗಳು ಈಗಾಗಲೇ ಲಾಭ ಗಳಿಸುತ್ತಿವೆ. ಉಳಿದಂತೆ ಬೆಂಗಳೂರಿನ ಹೊರವಲಯಗಳಾದ ಹೊಸೂರು ರಸ್ತೆ, ತುಮಕೂರು ರಸ್ತೆ, ಕೋಲಾರ ರಸ್ತೆ, ಯಲಹಂಕ ಪ್ರದೇಶಗಳಲ್ಲಿ ಈಗೀಗ ಉದ್ಯಮ ಉತ್ತೇಜನಗೊಳ್ಳುತ್ತಿದ್ದು, ಭವಿಷ್ಯದಲ್ಲಿ ಲಾಭ ಗಳಿಸುವುದು ಪಕ್ಕಾ ಎನ್ನುತ್ತಿದ್ದಾರೆ ಹೂಡಿಕೆದಾರರು.

ಇವಿ ಸ್ಟೇಷನ್ ಆರಂಭಿಸುವುದು ಹೇಗೆ?

- ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳನ್ನು ಆರಂಭಿಸಲು ಜಾಗದ ದಾಖಲೆ, ಮಾಲೀಕರ ವಿವರ, ಸಾಮಾನ್ಯವಾಗಿ ಪ್ರತಿ ಕಿಲೋವ್ಯಾಟ್‌ಗೆ 1000 ರೂ.ನಂತೆ ಠೇವಣಿ ಹಣ ನೀಡಿ ಸ್ಥಳೀಯ ಬೆಸ್ಕಾಂ ಕಚೇರಿಯಲ್ಲಿ ಅನುಮತಿಗೆ ಅರ್ಜಿ ಸಲ್ಲಿಸಬಹುದಾಗಿದೆ.
- ಅರ್ಜಿ ಸಲ್ಲಿಕೆ ಬಳಿಕ ಆಯಾ ಬೆಸ್ಕಾಂ ವ್ಯಾಪ್ತಿಯ ಕ್ಷೇತ್ರದ ಅಧಿಕಾರಿ ಸ್ಥಳ ಪರಿಶೀಲನೆ ನಡೆಸಿ ಅನುಮತಿ ನೀಡುತ್ತಾರೆ.
- ಶೀಘ್ರ ಚಾರ್ಜಿಂಗ್ ಯಂತ್ರಕ್ಕೆ ಕನಿಷ್ಠ 50 ಕಿಲೋವ್ಯಾಟ್ ವಿದ್ಯುತ್ ಬೇಡಿಕೆಯಿದ್ದು, 50 ಸಾವಿರರೂ. ಠೇವಣಿ ಪಾವತಿಸಬೇಕಾಗುತ್ತದೆ.
- ಚಾರ್ಜಿಂಗ್ ಸ್ಟೇಷನ್ ಸ್ಥಾಪನೆ ಉದ್ದೇಶಿತ ಪ್ರದೇಶದಲ್ಲಿ ಈ ವಿದ್ಯುತ್ ಪ್ರಸರಣ ಟ್ರಾನ್ಸ್‌ಫಾರಂ ಲಭ್ಯವಿರದಿದ್ದರೆ ಹೆಚ್ಚುವರಿ ವೆಚ್ಚ ಅನಿವಾರ್ಯ.
- ತಮಿಳುನಾಡಿನಲ್ಲಿ ಉಚಿತ ಟ್ರಾನ್ಸ್‌ಫಾರಂ ವ್ಯವಸ್ಥೆಯಿದ್ದು, ರಾಜ್ಯದಲ್ಲಿ ಈ ಸೌಕರ್ಯ ಕಲ್ಪಿಸಲು 3 ಲಕ್ಷ ರೂ. ಹೂಡಿಕೆ ಪಡೆಯಲಾಗುತ್ತಿದೆ.

ಇವಿ ಉದ್ಯಮದಲ್ಲಿದೆ ಭವಿಷ್ಯ

- ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳ ಅವಲಂಬನೆ ಭವಿಷ್ಯದಲ್ಲಿ ಹೆಚ್ಚಲಿದೆ.
- ಪೆಟ್ರೋಲ್, ಡೀಸೆಲ್‌ಗೆ ಹೋಲಿಸಿದರೆ ಚಾರ್ಜಿಂಗ್ ದರ ಕಡಿಮೆ.
- ಹೂಡಿಕೆದಾರರಿಗೆ ಪ್ರತಿ ಯೂನಿಟ್ ವಿದ್ಯುತ್ ದರ 5 ರೂ. ಇದ್ದು, ವೇಗದ ಚಾರ್ಜಿಂಗ್‌ಗೆ 17ರಿಂದ 22 ರೂ., ನಿಧಾನ ಚಾರ್ಜಿಂಗ್‌ಗೆ 16 ರೂ. ನಿಗದಿಗೊಳಿಸಲಾಗಿದೆ. ಉದ್ಯಮದಲ್ಲಿ ಲಾಭವಿದೆ.
- ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳ ನಿರ್ವಹಣಾ ವೆಚ್ಚ ಕಡಿಮೆ.

ಹೂಡಿಕೆ ಮಾಡಿದ ಹಣ ಸೇಫ್

ರಾಜ್ಯ ಮಾತ್ರವಲ್ಲದೆ ದೇಶಾದ್ಯಂತ ಎಲೆಕ್ಟ್ರಿಕ್ ವಾಹನ ಖರೀದಿ ಏರಿಕೆಯಾಗುತ್ತಿರುವ ಬೆನ್ನಲ್ಲೇ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳ ಉದ್ಯಮ ಜೀವ ಪಡೆಯುತ್ತಿದೆ. ಸದ್ಯ ದ್ವಿಚಕ್ರ ವಾಹನಗಳಿಗೆ ಆಯಾ ಕಂಪನಿಗಳೇ ಮನೆಗಳಲ್ಲಿ ಚಾರ್ಜಿಂಗ್ ಪ್ಲಗ್ ವ್ಯವಸ್ಥೆ ನೀಡುತ್ತಿರುವ ಹಿನ್ನೆಲೆ ಕೆಲವೆಡೆ ಬೇಡಿಕೆಯಿಲ್ಲವೆಂಬ ಅಭಿಪ್ರಾಯ ಕೇಳಿಬರುತ್ತಿದ್ದರೂ, ಕೆಲವೇ ವರ್ಷಗಳಲ್ಲಿ ಈ ಕೇಂದ್ರಗಳಿಗೆ ಹೆಚ್ಚು ಬೇಡಿಕೆ ಸೃಷ್ಟಿಯಾಗಲಿದೆ. ಪ್ರಸ್ತುತ, ಒಂದು ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರ ಸ್ಥಾಪನೆಗೆ 10ರಿಂದ 15 ಲಕ್ಷ ರೂ. ಖರ್ಚಾಗುತ್ತಿದ್ದು, ವಾರ್ಷಿಕ ಕನಿಷ್ಠ 2-4 ಲಕ್ಷ ರೂ. ಲಾಭ ಗಳಿಸಬಹುದು ಎನ್ನುವುದು ಕುಣಿಗಲ್ ಬಳಿಯ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರ ಸ್ಥಾಪಿಸಿದವರ ಅಭಿಪ್ರಾಯ.

2040ರ ವೇಳೆಗೆ ಎಲೆಕ್ಟ್ರಿಕ್ ಕಾರುಗಳು ಪ್ರಪಂಚದಾದ್ಯಂತ ಪಾರಮ್ಯ ಸಾಧಿಸಲಿವೆ ಎಂದು ತಜ್ಞರು ಊಹಿಸುತ್ತಿದ್ದಾರೆ. 2022ರಲ್ಲಿ ಒಟ್ಟು 77,849 ಇವಿ ವಾಹನಗಳು ಮಾರಾಟ ಕಂಡಿವೆ. 2021ಕ್ಕೆ ಹೋಲಿಸಿದಲ್ಲಿ ಈ ಮಾರಾಟವು ಶೇ.185ಕ್ಕೂ ಅಧಿಕ. ಪ್ರಸ್ತುತ ಭಾರತದಲ್ಲಿ 13,34,385 ವಿದ್ಯುಚ್ಚಾಲಿತ ವಾಹನಗಳಿವೆ.

ವಿದ್ಯುತ್ ದರ ಎಲ್ಲಿ, ಎಷ್ಟು?

(ಪ್ರತಿ ಯೂನಿಟ್‌ಗೆ)

ರಾಜ್ಯ	ವಿದ್ಯುತ್ ದರ
ಕರ್ನಾಟಕ	5 ರೂ.
ದಿಲ್ಲಿ	4 ರೂ
ಆಂಧ್ರಪ್ರದೇಶ	8 ರೂ.
ತೆಲಂಗಾಣ	8 ರೂ.
ಕೇರಳ	5 ರೂ.
ತಮಿಳುನಾಡು	9 ರೂ.

ಉದ್ದೇಶಿತ ಇವಿ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳ ಗುರಿ

140 ಬೆಸ್ಕಾಂ | 61 ಆರ್‌ಟಿಒ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಸ್ಥಳಗಳಲ್ಲಿ

3060 ಖಾಸಗಿ ಸಹಭಾಗಿತ್ವ ಮತ್ತು ಇತರ

ರಾಜ್ಯದಲ್ಲಿನ ಇವಿ ಸ್ಟೇಷನ್‌ಗಳು

2018	2019	2022	ಒಟ್ಟು
10	126	184	320

ಇವಿ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳ ಸ್ಥಾಪನೆಗೆ ಏಕಗವಾಕ್ಷಿಯಡಿ ಅವಕಾಶ ಕಲ್ಪಿಸಲಾಗಿದ್ದು, ಪ್ರತಿ ಯೂನಿಟ್‌ಗೆ 5 ರೂ. ನಿಗದಿಗೊಳಿಸಲಾಗಿದೆ. ರಾಜ್ಯದ ಹೆದ್ದಾರಿಗಳು ಮಾತ್ರವಲ್ಲದೆ ಟೋಲ್‌ಗಳ ಎರಡೂ ಬದಿ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರ ಸ್ಥಾಪನೆಗೆ ರಾಷ್ಟ್ರೀಯ ಹೆದ್ದಾರಿ ಪ್ರಾಧಿಕಾರಕ್ಕೆ ಪತ್ರ ಬರೆಯಲಾಗಿದೆ.

-ಸುನಿಲ್‌ಕುಮಾರ್ ಇಂಧನ ಸಚಿವ

ಬೆಂಗಳೂರು ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳ ಸ್ಥಾಪನೆ ಸುಗಮ ಮತ್ತು ಲಾಭದಾಯಕವಿದ್ದು, ಸರಕಾರ ರಾಜ್ಯದ ಇತರೆ ಭಾಗಗಳಲ್ಲಿ ಇದೇ ವ್ಯವಸ್ಥೆ ರೂಪಿಸಬೇಕಿದೆ.

- ಅನಿಲ್ ಕೃಷ್ಣನ್
ಸಹ ಸಂಸ್ಥಾಪಕ, ಜಿಯಾನ್ ಎಲೆಕ್ಟ್ರಿಕ್

No. 12/2/2020-EV-Part(5) (Comp No. 259314)
Government of India
Ministry of Power
Shram Shakti Bhawan, Rafi Marg,

New Delhi, the 07th November, 2022

To,
1. The Secretaries of all the Ministries/Departments of Government of India
2. The Chief Secretaries of all the State/UTs

Subject: Amendment in Charging Infrastructure for Electric Vehicles (EV)- the revised consolidated Guidelines & Standards issued by Ministry of Power on 14.01.2022-reg

Sir/Madam,

The undersigned is directed to refer to Charging Infrastructure for Electric Vehicles- the revised consolidated Guidelines & Standards dated 14.01.2022 (copy enclosed) and to say that after careful consideration, it has been decided to make the following additions in these guidelines:

(a) Under the heading **" 3. Public Charging Infrastructure (PCI) Requirements"**, para 3.1 (xi) has been added as under:

xi. *The public charging stations shall have the feature of prepaid collection of service charges with the time of the day rates and discount for solar hours.*

(b) Under the heading **"8. Service charges at PCS"**, para 8.3 has been added as under:

8.3 *A Committee under Central Electricity Authority (CEA) will periodically recommend to the State Government the ceiling limit of service charges to be levied under para 8.2 above. This Committee shall also recommend "time of the day rate" for service charges as well as the discount to be given for charging during solar hours.*

This issues with the approval of Hon'ble Minister of Power and NRE.

(Anoop Singh Bisht)
Deputy Secretary to the Govt. of India

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
6. CE (R&R), Ministry of Power

(Anoop Singh Bisht)
Deputy Secretary to the Govt. of India

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 foraffordable 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 rangeEVs 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) willhave 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 shallbe 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 ofrent 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)
Under Secretary to the Govt. of India
Tel: 23356938
Email:suman.m@nic.in

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)
Under Secretary to the Govt. of India
Tel: 23356938
Email: suman.m@gov.in

ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ನಡವಳಿಗಳು

ವಿಷಯ: ರಾಜ್ಯದಲ್ಲಿ ವಿದ್ಯುತ್ ವಾಹನಗಳ ಚಾರ್ಜಿಂಗ್ ಮೂಲಭೂತ ಸೌಕರ್ಯ ಕಲ್ಪಿಸಲು ಸ್ಥಳ ಒದಗಿಸುವ ಸರ್ಕಾರಿ ಇಲಾಖೆಗಳಿಗೆ ಕೇಂದ್ರ ಇಂಧನ ಮಂತ್ರಾಲಯದಿಂದ ನಿಗಧಿಪಡಿಸಿರುವ ಆದಾಯ ಹಂಚಿಕೆ ಮಾದರಿಯನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳುವ ಬಗ್ಗೆ.

ಓದಲಾಗಿದೆ:

1. ಸರ್ಕಾರದ ಅಧಿಸೂಚನೆ ಸಂಖ್ಯೆ: ಇಎನ್ 216 ವಿಎಸ್‌ಸಿ 2018 ದಿನಾಂಕ: 28.12.2018.
2. ಕೇಂದ್ರ ಇಂಧನ ಮಂತ್ರಾಲಯದ ಮಾರ್ಗಸೂಚಿ ಸಂಖ್ಯೆ: 12/2/2018-EV ದಿನಾಂಕ: 14.01.2022.
3. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಬೆಸ್ಕಾಂ ಇವರ ಪತ್ರ ಸಂಖ್ಯೆ: ಬೆವಿಕಂ/ವ್ಯನಿ/ಆಕಾ/ಬಿಸಿ-01/2021-22/204 ದಿನಾಂಕ: 20.01.2022.
4. ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ: ಎನರ್ಜಿ 267 ವಿಎಸ್‌ಸಿ 2021 ದಿನಾಂಕ: 02.02.2022.
5. ನಿರ್ದೇಶಕರು (ಇವಿ), ಕೇಂದ್ರ ಇಂಧನ ಮಂತ್ರಾಲಯ ಇವರ ಪತ್ರ ಸಂಖ್ಯೆ: 12/22/2020-EV-Part(5) ದಿನಾಂಕ: 01.02.2022.

ಪ್ರಸ್ತಾವನೆ:

ಕರ್ನಾಟಕ ರಾಜ್ಯವನ್ನು ವಿದ್ಯುತ್ ವಾಹನಗಳ ಉತ್ಪಾದನೆಗೆ ಹೂಡಿಕೆಯ ತಾಣವನ್ನಾಗಿ ಮಾಡುವ ಮತ್ತು ವಿದ್ಯುತ್ ವಾಹನಗಳ ಬಳಕೆಗೆ ಪ್ರೋತ್ಸಾಹ ನೀಡುವ ಉದ್ದೇಶದಿಂದ ವಿದ್ಯುತ್ ವಾಹನ ಮತ್ತು ಶಕ್ತಿ ಶೇಖರಣೆ ನೀತಿ - 2017 ನ್ನು ಜಾರಿಗೊಳಿಸಿದೆ. ಕೇಂದ್ರ ಇಂಧನ ಮಂತ್ರಾಲಯದ ಪತ್ರ ಸಂಖ್ಯೆ: 12/2/2018-EV ದಿನಾಂಕ 14.12.2018 ರಂತೆ ವಿದ್ಯುತ್ ಚಾಲಿತ ವಾಹನಗಳ ಚಾರ್ಜಿಂಗ್ ಮೂಲಭೂತ ಸೌಕರ್ಯ ಕಲ್ಪಿಸುವ ಕುರಿತು ಹೊರಡಿಸಿದ್ದ ಮಾರ್ಗಸೂಚಿ ಮತ್ತು ಮಾನದಂಡಗಳನ್ವಯ ರಾಜ್ಯದಲ್ಲಿ ವಿದ್ಯುತ್ ಚಾಲಿತ ವಾಹನಗಳ ಚಾರ್ಜಿಂಗ್ ಮೂಲಭೂತ ಸೌಕರ್ಯ ಕಲ್ಪಿಸಲು ಮೇಲೆ ಓದಲಾದ (1) ರ ದಿನಾಂಕ 28.12.2018 ರ ಅಧಿಸೂಚನೆಯಲ್ಲಿ ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿಯನ್ನು "ರಾಜ್ಯ ನೋಡಲ್ ಸಂಸ್ಥೆ" ಯನ್ನಾಗಿ ನೇಮಿಸಲಾಗಿದೆ.

ಮೇಲೆ ಓದಲಾದ (2) ರ ಪತ್ರದಲ್ಲಿ ಕೇಂದ್ರ ಇಂಧನ ಮಂತ್ರಾಲಯದಿಂದ ಹೊರಡಿಸಿರುವ ಪರಿಷ್ಕೃತ ಮಾರ್ಗಸೂಚಿಗಳಲ್ಲಿ ಸ್ಥಳ ಒದಗಿಸಲು ಆದಾಯ ಹಂಚುವಿಕೆಯ ಕುರಿತು ಈ ಕೆಳಕಂಡಂತೆ ಉಲ್ಲೇಖಿಸಲಾಗಿದೆ:

"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 Rs.1/kWh (used for charging) to be paid to the Land-Owning Agency from such PCS business payable on quarterly basis. 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 Rs. 1/kWh."

ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಬೆಸ್ಕಾಂ ಇವರು ಮೇಲೆ ಓದಲಾದ (3) ರ ದಿನಾಂಕ 22.01.2022 ರ ಪತ್ರದಲ್ಲಿ ಕೇಂದ್ರ ಸರ್ಕಾರದಿಂದ ದಿನಾಂಕ:14.01.2022 ರಂದು ವಿದ್ಯುತ್ ವಾಹನ ಚಾರ್ಜಿಂಗ್ ಮೂಲಸೌಕರ್ಯ-ಪರಿಷ್ಕೃತ ಏಕೀಕೃತ ಮಾರ್ಗಸೂಚಿಗಳು ಹಾಗೂ ಮಾನದಂಡಗಳನ್ನು ಹೊರಡಿಸಿದ್ದು, ಇದರಲ್ಲಿ ಯಾವುದೇ ಸರ್ಕಾರಿ ಸಂಸ್ಥೆ/ಸಾರ್ವಜನಿಕ ವಲಯ ಉದ್ಯಮಗಳಿಂದ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳನ್ನು ಸ್ಥಾಪಿಸಲು ಪ್ರತಿ ಯೂನಿಟ್‌ಗೆ ರೂ. 1.00 ರಂತೆ ಆದಾಯ ಹಂಚುವಿಕೆಯಲ್ಲಿ ಸರ್ಕಾರಿ ಸ್ಥಳಗಳನ್ನು ನೀಡಬೇಕಾಗಿ ಸೂಚಿಸಿರುವುದಲ್ಲದೇ ಖಾಸಗಿ ಸ್ಥಳಗಳಲ್ಲಿ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳನ್ನು ಸ್ಥಾಪಿಸಲು ಕನಿಷ್ಠ ದರ ಪ್ರತಿ ಯೂನಿಟ್‌ಗೆ ರೂ.1.00 ರಂತೆ ಆದಾಯ ಹಂಚುವಿಕೆಯಲ್ಲಿ ಬಿಡ್ಡಿಂಗ್ ಮೂಲಕ ಸರ್ಕಾರಿ ಸಂಸ್ಥೆ/ಸಾರ್ವಜನಿಕ ವಲಯ ಉದ್ಯಮಗಳನ್ನು ಆಯ್ದುಕೊಳ್ಳಬಹುದು ಎಂದು ಉಲ್ಲೇಖಿಸಲಾಗಿದೆ ಎಂದು ತಿಳಿಸಿರುತ್ತಾರೆ.

ಅದರಂತೆ, ಯಾವುದೇ ಸರ್ಕಾರಿ ಸಂಸ್ಥೆ/ಸಾರ್ವಜನಿಕ ವಲಯ ಉದ್ಯಮಗಳಿಂದ ಸ್ಥಾಪಿಸಲಾಗುವ ವಿದ್ಯುತ್ ವಾಹನ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳಿಗೆ ಸ್ಥಳ ಒದಗಿಸುವ ಸರ್ಕಾರಿ ಇಲಾಖೆಗಳಿಗೆ ಚಾರ್ಜಿಂಗ್ ವ್ಯವಸ್ಥೆಯಿಂದ ದಾಖಲಾಗುವ ಪ್ರತಿ ಯೂನಿಟ್ ಮೇಲೆ ರೂ. 1.00/- ರ ಆದಾಯ ಹಂಚುವಿಕೆಯ ಮಾದರಿ ಅನ್ವಯವಾಗಲು ಮತ್ತು ಪಿಪಿಪಿ ಮಾದರಿಯಲ್ಲಿ ಕರೆಯಲಾಗುವ ಟೆಂಡರ್‌ನಲ್ಲಿ ಕನಿಷ್ಠ ಮಿತಿಯನ್ನಾಗಿ ಪ್ರತಿ ಯೂನಿಟ್ ಮೇಲೆ ರೂ. 1.00/- ರ ಆದಾಯ ಹಂಚುವಿಕೆಯನ್ನು ನಿಗಧಿಪಡಿಸಲು ಆದೇಶ ಹೊರಡಿಸುವಂತೆ ಕೋರಿರುತ್ತಾರೆ.

ಸರ್ಕಾರವು 2021-22ನೇ ಸಾಲಿನ ಆಯವ್ಯಯದ ಕಂಡಿಕೆ 226 ರಲ್ಲಿ ಘೋಷಿಸಿರುವಂತೆ ರಾಜ್ಯದಲ್ಲಿ ವಿದ್ಯುತ್ ವಾಹನಗಳ ಬಳಕೆಯನ್ನು ಉತ್ತೇಜಿಸಲು ಹಾಗೂ ವಾಯು ಮಾಲಿನ್ಯವನ್ನು ನಿಯಂತ್ರಿಸಲು ವಿದ್ಯುತ್ ಚಾಲಿತ ವಾಹನಗಳ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳನ್ನು ಸಾರ್ವಜನಿಕ ಖಾಸಗಿ ಸಹಭಾಗಿತ್ವದಲ್ಲಿ ಸ್ಥಾಪಿಸಲು ನೋಡಲ್ ಸಂಸ್ಥೆಯಾದ ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿಯು ರಾಜ್ಯದಲ್ಲಿ 1190 ಸಂಖ್ಯೆಯ ವಿದ್ಯುತ್ ಚಾಲಿತ ವಾಹನಗಳ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳನ್ನು ಸಾರ್ವಜನಿಕ ಖಾಸಗಿ ಸಹಭಾಗಿತ್ವದಲ್ಲಿ ಸ್ಥಾಪಿಸಲು ಸಲ್ಲಿಸಿದ್ದ ಕ್ರಿಯಾ ಯೋಜನೆಗೆ ಮೇಲೆ ಓದಲಾದ (4) ರ ದಿನಾಂಕ 02.02.2022ರ ಆದೇಶದಲ್ಲಿ ಅನುಮೋದನೆ ನೀಡಲಾಗಿದೆ.

ಮೇಲೆ ಓದಲಾದ (5) ರ ದಿನಾಂಕ 01.02.2022ರ ಪತ್ರದಲ್ಲಿ ನಿರ್ದೇಶಕರು (ಇವಿ), ಕೇಂದ್ರ ಇಂಧನ ಮಂತ್ರಾಲಯ ರವರು FAME-II ನಡಿ ಹಂಚಿಕೆಯಾಗಿರುವ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳ ಅನುಷ್ಠಾನಕ್ಕೆ ಸ್ಥಳ ದೊರೆಯಲು ವಿಳಂಬವಾಗುತ್ತಿರುವುದರಿಂದ ದೇಶದ 9 ನಗರಗಳಲ್ಲಿ ಚಾರ್ಜಿಂಗ್ ಮೂಲಭೂತ ಸೌಕರ್ಯ ಕಲ್ಪಿಸಲು ವಿಳಂಬವಾಗುತ್ತಿದ್ದು, ದಿನಾಂಕ:14.01.2022 ರ ಕೇಂದ್ರ ಇಂಧನ ಮಂತ್ರಾಲಯದ ಪರಿಷ್ಕೃತ ಮಾರ್ಗಸೂಚಿಗಳನ್ವಯ ಆದಾಯ ಹಂಚುವಿಕೆಯ ಮಾದರಿಯಲ್ಲಿ ಸ್ಥಳ ನೀಡಲು ಖಾಲಿ ಜಾಗ ಇರುವ ಸಂಬಂಧಪಟ್ಟ ಎಲ್ಲಾ ಇಲಾಖೆಗಳಿಗೆ ನಿರ್ದೇಶನ ನೀಡುವಂತೆ ಕೋರಿರುತ್ತಾರೆ.

ಸದರಿ ಪ್ರಸ್ತಾವನೆಯನ್ನು ಪರಿಶೀಲಿಸಿ. ಅದರಂತೆ ಈ ಕೆಳಕಂಡ ಆದೇಶ.

ಸರ್ಕಾರದ ಆದೇಶ ಸಂಖ್ಯೆ: ಎನರ್ಜಿ 816 ಎಎಸ್ ಸಿ 2021,
ಬೆಂಗಳೂರು, ದಿನಾಂಕ: 28.02.2022

ಪ್ರಸ್ತಾವನೆಯಲ್ಲಿ ವಿವರಿಸಿರುವ ಅಂಶಗಳ ಹಿನ್ನಲೆಯಲ್ಲಿ, ಯಾವುದೇ ಸರ್ಕಾರಿ ಸಂಸ್ಥೆ/ಸಾರ್ವಜನಿಕ ವಲಯ ಉದ್ಯಮಗಳಿಂದ ಸ್ಥಾಪಿಸಲಾಗುವ ವಿದ್ಯುತ್ ವಾಹನ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳಿಗೆ ಸ್ಥಳ ಒದಗಿಸುವ ಸರ್ಕಾರಿ ಇಲಾಖೆಗಳಿಗೆ ಚಾರ್ಜಿಂಗ್ ವ್ಯವಸ್ಥೆಯಿಂದ ದಾಖಲಾಗುವ ಪ್ರತಿ ಯೂನಿಟ್ ಮೇಲೆ ರೂ. 1.00/- ರ ಆದಾಯ ಹಂಚುವಿಕೆಯ ಮಾದರಿಯನ್ನು ಅನುಸರಿಸಲು ಮತ್ತು ಪಿಪಿಪಿ ಮಾದರಿಯಲ್ಲಿ ಕರೆಯಲಾಗುವ ಟೆಂಡರ್‌ನಲ್ಲಿ ಕನಿಷ್ಠ ಮಿತಿಯನ್ನಾಗಿ ಪ್ರತಿ ಯೂನಿಟ್ ಮೇಲೆ ರೂ. 1.00/- ರ ಆದಾಯ ಹಂಚುವಿಕೆಯನ್ನು ನಿಗಧಿಪಡಿಸಲು ಅನುಮೋದನೆ ನೀಡಿ ಆದೇಶಿಸಿದೆ.

ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿಗಳು KTPP ಅಧಿನಿಯಮ ಮತ್ತು ಕೇಂದ್ರ ಇಂಧನ ಮಂತ್ರಾಲಯದಿಂದ ಕಾಲಕಾಲಕ್ಕೆ ಹೊರಡಿಸುವ ಮಾರ್ಗಸೂಚಿ ಮತ್ತು ಮಾನದಂಡಗಳನ್ವಯ ಯೋಜನೆಯನ್ನು ಅನುಷ್ಠಾನಗೊಳಿಸುವುದು.

ಕರ್ನಾಟಕ ರಾಜ್ಯಪಾಲರ ಆದೇಶಾನುಸಾರ
ಮತ್ತು ಅವರ ಹೆಸರಿನಲ್ಲಿ,

N. mangalagowri 28/2/22
(ಎನ್. ಮಂಗಳಗೌರಿ)
ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ,
ಇಂಧನ ಇಲಾಖೆ.
28.02.22

ಇವರಿಗೆ,
ಸಂಕಲನಕಾರರು, ಸರ್ಕಾರಿ ಮುದ್ರಣಾಲಯ, ಕರ್ನಾಟಕ ರಾಜ್ಯ ಪತ್ರ ಪ್ರಕಟಣೆಗಾಗಿ.

ಪ್ರತಿಗಳು:-

1. ಎಲ್ಲಾ ಇಲಾಖೆಗಳ ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿ/ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ/ಕಾರ್ಯದರ್ಶಿ.
2. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ನಿಗಮ ನಿಯಮಿತ, ನಿಗಮ ಕಛೇರಿ, "ಶಕ್ತಿ ಭವನ" ರೇಸ್ ಕೋರ್ಸ್ ರಸ್ತೆ, ಬೆಂಗಳೂರು- 560 001.
3. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಕರ್ನಾಟಕ ವಿದ್ಯುತ್ ಪ್ರಸರಣ ನಿಗಮ ನಿಯಮಿತ, ನಿಗಮ ಕಛೇರಿ, ಕಾವೇರಿ ಭವನ, ಬೆಂಗಳೂರು.
4. ವ್ಯವಸ್ಥಾಪಕ ನಿರ್ದೇಶಕರು, ಬೆಸ್ಕಾಂ/ಮೆಸ್ಕಾಂ/ಹೆಸ್ಕಾಂ/ಜೆಸ್ಕಾಂ/ಸೆಸ್ಕ್/ಹುಕ್ಕೇರಿ/ಪಿಸಿಕೆಲ್/ಕ್ರೆಡಲ್.
5. ಎಲ್ಲಾ ಜಿಲ್ಲೆಗಳ ಜಿಲ್ಲಾಧಿಕಾರಿಗಳು/ಮುಖ್ಯ ಕಾರ್ಯನಿರ್ವಹಣಾಧಿಕಾರಿಗಳು.

6. ಮಾನ್ಯ ಇಂಧನ ಸಚಿವರ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿ, ವಿಧಾನಸೌಧ, ಬೆಂಗಳೂರು.
7. ಸರ್ಕಾರದ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿರವರ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿ, ವಿಧಾನಸೌಧ, ಬೆಂಗಳೂರು.
8. ನಿರ್ದೇಶಕರು (ತಾಂತ್ರಿಕ)/ ನಿರ್ದೇಶಕರು (ಆರ್ಥಿಕ)/ ಜಂಟಿ ನಿರ್ದೇಶಕರು (ತಾಂತ್ರಿಕ ಮೇಲ್ವಿಚಾರಣೆ/ಯೋಜನೆಗಳು), ಇಂಧನ ಇಲಾಖೆ, ವಿಕಾಸಸೌಧ, ಬೆಂಗಳೂರು.
9. ಸರ್ಕಾರದ ಅಪರ ಮುಖ್ಯ ಕಾರ್ಯದರ್ಶಿಗಳ ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿ, ಇಂಧನ ಇಲಾಖೆ, ವಿಕಾಸಸೌಧ, ಬೆಂಗಳೂರು.
10. ಸರ್ಕಾರದ ಅಪರ ಕಾರ್ಯದರ್ಶಿಗಳ ಆಪ್ತ ಸಹಾಯಕರು, ಇಂಧನ ಇಲಾಖೆ, ವಿಕಾಸಸೌಧ, ಬೆಂಗಳೂರು.
11. ಸರ್ಕಾರದ ಅಧೀನ ಕಾರ್ಯದರ್ಶಿಗಳ ಆಪ್ತ ಸಹಾಯಕರು, ಇಂಧನ ಇಲಾಖೆ, ವಿಕಾಸಸೌಧ, ಬೆಂಗಳೂರು.
12. ಶಾಖಾ ರಕ್ಷಕ ಕಡತ/ಹೆಚ್ಚುವರಿ ಪ್ರತಿ.

Government of Karnataka

No: EN 216 VSC 2018

Karnataka Government Secretariat
Energy Department, Vikasasoudha,
Bengaluru, Dated:28-12-2018

NOTIFICATION

As per letter No:12/2/2018-EV Dated:14.12.2018 of Ministry of Power regarding "Charging Infrastructure for Electric Vehicles- Guidelines and Standards", the Government of Karnataka hereby designate the Bengaluru Electricity Supply Company Limited (BESCOM) as the "State Nodal Agency" for setting the Charging Infrastructure for electric vehicles in the State.

ಅಧೀನ ಕಾರ್ಯದರ್ಶಿ ಮತ್ತು ಪದನಿ.
ಪದನಿ. ಚಿವಿಕಂ
ಸಂಖ್ಯೆ ..7683..
31 DEC 2018

BY ORDER AND IN THE NAME OF
GOVERNOR OF KARNATAKA,

(B.V SRINIVASAIAH)
UNDER SECRETARY TO GOVT.,
ENERGY DEPARTMENT.

To
The Compiler, Karnataka Gazette, Bengaluru.

Copy to:

1. The Secretary, Ministry of New and Renewable Energy, Government of India, Block 14, CGO Complex, Lodhi Road, New Delhi.-110003.
2. The Managing Director, KPTCL, Kaveri Bhavan Bengaluru-560009.
3. The Managing Director, KPCL, Shakthi Bhavan Bengaluru.
4. The Managing Director, BESCOM/MESCOM/GESCOM/ HESCOM/CESC/ KREDL/PCKL
5. The Secretary, Karnataka Electricity Regulatory Commission, Millers Tank bund Road, Vasanth Nagar, Bengaluru.
6. P.S. to Hon'ble Chief Minister, Vidhana Soudha, Bengaluru.
7. P.S to the Chief Secretary to Government, Vidhana Soudha, Bengaluru.

RV Cell 365 31/01/19 BESCOM

AGM

8. The Under Secretary to GoI, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi.
9. The Director(Finance)/Additional Director(EMC)/Joint Director (NCE)/Joint Director(PP), Energy Department.
10. P.S to the Additional Chief Secretary to Government, Energy Department, Bengaluru.
11. P.S to the Additional Chief Secretary to Government, Urban Development Department, Vikasa Soudha, Bengaluru.
12. P.S to the Additional Chief Secretary to Government, Finance Department, Vidhana Soudha, Bengaluru.
13. P.S to the Additional Chief Secretary to Government, Forest, Ecology and Environment Department, M.S.Building, Bengaluru.
14. P.S to the Principal Secretary to Government, Revenue Department, M.S.Building, Bengaluru.
15. P.S to the Principal Secretary to Government, C&I, VikasaSoudha, Bengaluru.
16. P.S to the Principal Secretary to Government, Water Resource Department, Vikasa Soudha, Bengaluru.
17. G.P.A. to Deputy Secretary to Government, Energy Department, VikasaSoudha, Bengaluru.
18. SGF/office copy/spares.