



## KERALA STATE ELECTRICITY BOARD LIMITED

(incorporated under the Companies Act, 1956)

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### ABSTRACT

Sub :- Establishment of EV Charging Stations in the State under Government of Kerala and Government of India (DHI) schemes – Sanctioned - Orders issued

**Corporate Office (Renewable Energy and Energy Savings)**

**B.O (FTD) No. 92/2021/CE(REES)/INNOV-Emob/2019-20, Tvm, dated, 01.02.2021**

- Read:-
1. Office Order D (T,SO,CP,Safety&REES) No.805/2020/CE(REES) / INNV /T4/DCC 2020-21 dated TVM 29.5.2020
  2. BO(FTD)No.643/2019(KSEB/(CE(REES)/INNV-EMob/19-20),Tvm,dated 21.08.2019
  3. GO (Rt) No.473/2019/TRANS dated, Tvm, 15.10.2019
  4. BO(FTD)No.574/2020(KSEB/CE(REES)/INNV-EMob/20-21), Tvm, dated 14.09.2020
  5. BO(FTD)No.678/2020(CE(REES)/CS/E-mobilityFAME/2020-21),Tvm, dated 9.11.2020
  6. Note no. CE(REES)/INNV-Emob/2020-21/1139 dated 04.01.2021 submitted to the CMD through Dir (Plg, Safety & REES)
  7. Note no. CE(REES)/INNV-Emob/2020-21/1159 dated 08.01.2021 submitted to the Full Time Directors(Agenda 29/1/21)

### ORDER

KSEBL as per Board Order read as 2<sup>nd</sup> above accorded Administrative sanction for setting up of following 6 EV charging stations under Government at an estimated cost of Rs. 1.68 crore.

- |                       |   |                                 |
|-----------------------|---|---------------------------------|
| 1) Thiruvananthapuram | - | Electrical Section, Nedom       |
| 2) Kollam             | - | Electrical Section, Olai        |
| 3) Ernakulam          | - | Vidyuthi Bhavanam, Palarivattom |
| 4) Thrissur           | - | 110kV Substation, Viyyur        |
| 5) Kozhikode          | - | 220kV substation, Nallalam      |
| 6) Kannur             | - | 110kV substation, Chovva        |

Subsequently, the Government of Kerala accorded Administrative Sanction as per GO read as 3<sup>rd</sup> above for the installation of 32 charging stations at an amount of Rs.8,20,00,000/- (Rupees Eight Crore and Twenty Lakhs Only). An amount of Rs. 5 crore was released to KSEBL on this account. Out of these 32 stations, 6 pilot stations as shown above have been completed and became operational wef 07.11.2020.

KSEBL as per Board Order read as 4<sup>th</sup> above sanctioned to float RfPs to appoint EPC contractor for implementing the balance 26 stations in various districts of Kerala, accordingly EPC contractor was selected by inviting RfP and the work is awarded to the following contractors:

SNo	Contractor	No. of stations	Date of LoA	Contract value
1	M/s Okaya Power Pvt Ltd, New Delhi	18	28.10.2020	Rs. 2,30,84,387/-
2	M/s Tirex Transmission, Gujarat	8	28.10.2020	Rs. 1,02,16,561/-
	<b>Total</b>	<b>26</b>		<b>Rs. 3,33,00,948/-</b>

The work involves associated Civil works like platform, canopy, bollard, marking of area, name board etc and Supply, installation, testing and commissioning of 26 charging stations of the following configuration including 5 years warranty.

- |                                    |                      |       |
|------------------------------------|----------------------|-------|
| 1) Bharath AC 001 10 kW            | 3 Guns of 3.3kW each | -1No. |
| 2) Bharat DC 001                   | 1 Gun 15kW           | -1No. |
| 3) CCS+CCS 50kW / CCS+CHAdEMO 25kW | 2Gun 50kW/25kW       | -1No. |

The expenses towards associated civil & electrical works per site is expected at the rate Rs. 5,00,000/- & Rs. 3,00,000/- respectively. Hence, the expenses towards the 32 stations can be tabulated as shown below:

SLNo	Name of project	SITC & Waranty (Rs)	Civil works (Rs)	Power extension & earthing and name board (Rs)	Total (Rs)
1	6 stations	64,53,756.00	21,68,000.00	12,08,400.00	9830156.00
2	26 stations	3,33,00,948.00	500000X26= 1,30,00,000	3,00,000X26= 78,00,000	54100948.00
	<b>Total</b>				<b>63931104.00</b>

Also the Department of Heavy Industry (DHI), Government of India floated Expression of Interest (EoI) inviting Proposals for availing incentives under FAME India Scheme Phase II for deployment of EV Charging Stations (EVCS) in select cities in India in August 2019. KSEBL had submitted proposals for 211 Nos Electric Vehicle charging stations (EVCS) in seven cities against the EoI mentioned above. The EVCS are planned to be set up on land owned by KSEBL (58 Nos), Private land (58 Nos) and land of Government organizations (95 Nos). The project can be taken up subsequent to fund approval from DHI. DHI accorded in principle approval to all the 211 EVCS and subsequently accorded fund approval to 49 EVCS proposed in Kochi, Thrissur, Kozhikkode and Kannur based on the consent letters furnished by the land owners. This includes 25 stations on KSEBL land and 5



on Government land (Total 30 stations). The balance 19 EVCS to be set up on Government/private land require execution of final agreement from land owners.

For the implementation of the aforementioned 30 stations in various Districts of Kerala, sanction was accorded as per BO read as (4) above to float RfPs to appoint EPC contractor. Accordingly EPC contractor was selected by inviting RfP and the work has been awarded to the following contractors:

Sl No	Contractor	No. of stations	Date of LoA	Contract value
1	M/s Tirex Transmission, Gujarat	21	21.10.2020	Rs. 4,46,89,369/-
2	M/s Indus Motor & Delta Electronic consortium	9	21.10.2020	Rs. 1,85,93,834/-
	<b>Total</b>	<b>30</b>		<b>Rs. 6,32,83,203/-</b>

The scope of EPC Contractor is the installation and commissioning of the chargers including civil works of platform, canopy etc. The associated site development works and power extension works are to be done by KSEBL. However upstream network augmentation if any required is proposed to be taken up as system strengthening work the cost of which is excluded from the contract of EVCS.

Since most of the EVCS proposed to be installed on KSEBL land under FAME II is for commercial purpose and come under Category A. 70% of the benchmark cost of the EVSE can be availed under FAME II subsidy scheme and the balance shall be borne by KSEBL. The non subsidy component to be borne by KSEBL comes to Rs. 250Lakh. The cost component of the 30 Nos EVCS proposed to be implemented under FAME II scheme through the work awarded is shown below:

Name of project	SITC & Warranty (Rs)	Power extension, & earthing and name board (Rs)	Civil works (Rs)	Total (Rs)
30 Stations	6,32,83,203	30*3L =90,00,000.00	30*5L =150,00,000.00	872,83,203.00

As per the table, the financial burden of KSEBL considering the non subsidy component of Rs. 250 Lakh is Rs. 490 Lakh (Rs. 250L+150L+90L). The Administrative sanction for Civil & Electrical works connected with the Stations was accorded for an amount of Rs. 192 Lakh as per B.O read 5 above. However this is exclusive of the non subsidy component of the cost of charger which has to be borne by KSEBL.

The mobilisation advance of 20% of the subsidy part (70% of the cost of Charger based on bench mark price) of the work ie. Rs 77,22,440/- has been credited to Regular

Savings Bank account no. 39760664208 of the Financial Adviser, KSEBL, on 31.10.2020. 40% will be given after the completion of installation and commissioning of works. Thereafter, the balance 40% will be sanctioned six months after the successful commercial operation of the EV Charging Stations.

Though AS has already been accorded by the Government of Kerala for setting up of 26 EV charging stations, a formal AS is also required to be issued for the work by KSEBL. Also sanction is required to proceed with the work 'Installation of 30 electric vehicle charging infrastructure at various KSEBL/ Government premises in Kerala including two years warranty and further three years extended warranty' under DHI, Government of India scheme.

The matter was placed before the Full Time Directors as per note read 7 above.

Having considered the above, the Full Time Directors in its meeting held on 20.1.2021

1. Resolved to accord formal Administrative Sanction for the work 'Installation of 26 electric vehicle charging infrastructure at various KSEBL/ Govt. premises in Kerala including two years warranty and further three years extended warranty' for Rs. 541Lakh.
2. Further Resolved to accord formal Administrative Sanction for the work 'Installation of 30 electric vehicle charging infrastructure at various KSEBL/ Govt. premises in Kerala including two years warranty and further three years extended warranty' for Rs. 873Lakh (Rs. 490lakh excluding subsidy amount.)
3. Further resolved that the work shall be implemented in the following manner.
  - (i) Agreement be executed by the Chief Engineer (REES) for which LoA is issued
  - (ii) The responsibility of the Engineer- in- charge (EIC) of the project be entrusted with the Executive Engineers as per Board orders issued from time to time
  - (iii) Associated Civil work (site development) & Electrical work (essential to provide LT supply up to the charger kiosk) be entrusted with the respective Transmission/ Distribution Circles of the EIC
  - (iv) Upstream network augmentation if any required be taken up as system strengthening work by the Distribution wing
  - (v) Measurement and accounting be made by the concerned ARU and payment be made as per Board orders issued in this regard
  - (vi) Materials from the supplier (vendor) shall be delivered to the respective field location.
  - (vii) Monitoring shall be done by the office of the Chief Engineer (REES) and the respective field officers



Orders are issued accordingly.

By Order of the Full Time Directors

sd/-

**LEKHA G**

**COMPANY SECRETARY(I/C)**

**To**

**The Chief Engineer(Renewable Energy and Energy Savings)**

**Copy to:-**

**TA to Chairman & Managing Director/TA to Director(Gen (Ele) and SCM)/TA to Director(Dist, IT & HRM)/TA to Director (Trans,SO & safety)/TA to Director (Gen-Civil)/PA to Director(Finance)/Sr.CA to Secretary(Admn.)/Fair Copy Superintendent/Library/ Stock file.**

**Forwarded by order,**



**Assistant Executive Engineer**