



KERALA STATE ELECTRICITY BOARD LTD.

(Incorporated under the Companies Act, 1956)

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ABSTRACT

Implementation of Smart city Mission-Kochi- Sample test of 'Zen ' make Smart meter and deploying about 100 single phase meters on trial basis- Sanctioned -Orders Issued.

CORPORATE OFFICE (IT, CR &CAPs)

BO (FTD) No 285 /2020 (CE / RITU/SMART GRID/CSML/19-20)Tvp, Dtd. 22.04.2020

- Read: 1. Office Order (D(D, IT&HRM))No.1767/2019(CE/RITU/SMART GRID/CSML/19-20) TVPM dated 15.10.2019.
2. MoM of the meeting conducted on 17.01.2020 with M/s CSML, M/s Polycab, M/s Kalkitech, M/s Zen meter and M/s Fluentgrid by CE(IT, CR &CAPs).
3. Email dated 18.01.2020 of M/s CSML addressed to the Deputy Chief Engineer, Electrical Circle, Ernakulam
4. Letter No. ECE/AEE3/Kochi Smart City/2019-20/2707 Dated 23.01.2020 of the Deputy Chief Engineer, Electrical Circle, Ernakulam addressed to the Chief Engineer, Distribution Central.
5. Letter No. CE(DC)/AEE-1/ Smart City/2019-4445Dated 06.02.2020 of the Chief Engineer, Distribution Central, Ernakulam addressed to the Director(Distribution, IT & HRM).
6. Note No. CE/RITU/Smart Grid/CSML/2019-20/477 Dtd.18.03.2020 of the Chief Engineer (IT, CR&CAPs) submitted to the Full Time Directors .
7. Office Order (D D, IT& HRM)No.572/2020(CE (IT, CR& CAPs)/RITU/SMART GRID/CSML/19-20)Tvp, dated 20.03.2020.
8. Note No. CE/RITU/Smart Grid/CSML/2019-20/495 Dtd.30.03.2020 of the Chief Engineer (IT, CR&CAPs) submitted to the Full Time Directors (Agenda: 13/04/20).

ORDER

M/s Cochin Smart Mission Limited (CSML) is the special purpose vehicle set up to implement smart city projects under Smart Cities Mission(SCM). M/s CSML proposes several smart solutions in Area Based Development (ABD) area and across pan-city providing various smart features/ infrastructures in line with the SCM guidelines. The establishment of Integrated Command Control and Communication Centre (IC4) is a part of the Smart City Project. The IC4 is the brain of the smart city which gathers all the informations of smart solutions of different departments of the city. As part of integration process KSEBL would require to share the Application programming Interfaces (APIs) with IC4 of Kochi. Accordingly as per Office order read as 1st above, sanction was accorded to proceed with the integration activities of KSEBL Systems with the IC4 platform as per the request by M/s CSML.

In the meeting held on 17.01.2020 between KSEBL, M/s CSML, M/s Polycab, M/s KALKITECH and M/s FLUENTGRID at Vydyuthi Bhavanam M/s Polycab introduced M/s Zen meter solutions Pvt Ltd and they presented the details of single phase and three phase Smart meters and it was decided that the accuracy test is to be conducted by TMR, Shornur. Also in the MoM

and email read as 2nd and 3rd above respectively M/s CSML has informed that they are planning to deploy about 100 single phase Smart meters of 'Zen' make on trial basis and requested to inform the procedures and requirements related to the sample test of the same. M/s CSML as per email read as 3rd paper above forwarded the technical documents to Deputy Chief Engineer, Electrical Circle, Ernakulam including type test results etc. of the proposed smart meter.

The Chief Engineer, Distribution Central, Ernakulam vide as per letter read as 5th above has reported that the deployment of smart meters is confined to the ABD (Area Based Development) area, Kochi. Four Electrical Sections are coming in the ABD area viz Fort, Mattanchery, Central and College. It is recommended to change all the meters in the four Electrical sections for effective utilization of the project. It is also requested to issue approval for the proposed deployment of 100 Nos single phase Smart meters of 'Zen' make on trial basis, the approval of the technical documents related to the 'Zen' make smart meters and to intimate the procedures and requirements related to the sample test of the 'Zen' make smart meters.

Further a meeting was convened in the chamber of the Director (Distribution, IT & HRM) on 06.03.2020 to discuss the implementation of smart meters in the ABD area, Smart City Kochi. Accordingly as per Office order read as 7th above, sanction was accorded for the following

1. To authorize the Chief Engineer (SCM)/Chief Engineer, Distribution Central, Ernakulam to conduct the accuracy test of the proposed 100 Nos single phase Smart meters of 'Zen' make supplied by M/s CSML on trial basis for implementing Smart city projects in co-ordination with TMR Division, Shornur and to authorize the Chief Engineer(IT, CR &CAPs) to make arrangements for communication testing of the meters.
2. To authorize the Chief Engineer, Distribution Central, Ernakulam to co-ordinate the implementation/ installation activities of Smart meters under Smart city Mission, Kochi.
3. To authorize the Chief Engineer (IT, CR &CAPs) to provide comments for the technical documents related to "Zen" make smart meters in consultation with the Chief Engineer (SCM) and technical committee members for energy meter.

The matter was placed along with the recommendations of the Chief Engineer (IT, CR & CAPs) before the Full Time Directors as per Note read as 8th above.

Having considered the matter in detail and the recommendation of the Chief Engineer (IT, CR&CAPs) the Full Time Directors in its meeting held on 02.04.2020 resolved to accord sanction to the following

1. To ask M/s CSML for the cost and AMC of Smart Meters to be installed by KSEBL.
2. To collect meter rent from consumers having KSEBL installed meters as well as from consumer owned meters under the ABD area, of Smart City Kochi.
3. To adopt average consumption billing if communication failure occurs in smart meters.
4. To issue hard copy of demand cum disconnection notice to the consumers by digital methods.
5. To implement enabling of prepaid billing facility where Smart Meters are implemented.

6. To continue the bi-monthly billing system where Smart Meters are installed.
7. To adopt the procedures and requirement given in Annexure -I for deploying the Smart meters in the ABD area of Smart City Kochi.
8. To direct M/s CSML to supply sufficient number of spare Smart Meters during the AMC period in the four Electrical sections which comes under the ABD area of Smart City Kochi.

Orders are issued accordingly.

By Order of the Full Time Directors,

Sd/-

LEKHA G,
COMPANY SECRETARY (I/c)

To

1. The Chief Engineer (IT, CR & CAPS).
2. The Deputy Chief Engineer (C& P) with full powers of Chief Engineer.

Copy to:

1. The T.A. to Chairman & Managing Director / Director (D, IT &HRM) / Director (T, SO, Safety, CP &REES) / Director (GE & SCM)/ Director (GC).
2. The P.A. to Director (Finance)/ Senior CA to Secretary (Admn.)
3. The Financial Adviser/ Chief Internal Auditor.
4. The Fair Copy Superintendent/ Library/ Stock File.

Forwarded/By Order



Assistant Engineer

Annexure to BO (FTD) No 285 /2020 (CE / RITU/SMART GRID/CSML/19-20)

Tvpm, Dtd. 22.04.2020

- Prior intimation to the consumers regarding changing of smart meters by Deputy Chief Engineer, Electrical Circle, Ernakulam.
- Removal of Old Meter & taking down the final meter reading by KSEBL staff.
- Installation of new smart meters by M/s CSML in presence of KSEBL staff and taking initial reading from Smart Meters by KSEBL staff. Completeness of installation at site in all respect shall be verified by respective Assistant Engineer of Electrical Sections.
- Verification of communication by M/s CSML.
- Activate / register new meters with Head End System by M/s CSML
- Integration of meter reading from the deployed smart meters with Orumanet by M/s CSML and KSEBL IT wing.
- During the project execution and AMC period if any addition of new consumers in the ABD area is intimated, M/s CSML shall take initiatives to install smart meter to the consumer in co ordination with KSEBL staff.

Sd/-

LEKHA G,
COMPANY SECRETARY (I/c)