

**KERALA STATE ELECTRICITY BOARD LIMITED**

(Incorporated under the Companies Act, 1956) CIN :U40100KL2011SGC027424
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ABSTRACT

Time extension to MIDEA project for the successful completion of the entrusted tasks, and for the fulfilment of future goals which are under development –
Sanctioned - Orders issued.

CORPORATE OFFICE (Safety)

**B.O (FTD). No 371/2023 CSC/AE2/MIDEA-Time extension /2022-23) Tvpm,
dated: 03.08.2023.**

Read:

1. B.O (FTD) No-662/2021(CSC/FTD/ Innovation-AE-2/2021-22) dated 17.09.2021.
2. Letter No. MIDEA/2022-23/DB-04 / 57 dated 30/03/2023 of the AE, MIDEA.
3. Office Order (DPS&SCM) No 34/2022 (CSC/AE-2/MIDEA/2021-22) dated 7.01.2022.
4. B.O (FTD) No-103(CSC/AE-2/2021-22) dated.07.02.2022.
5. B.O (FTD).No 747 /2022 (CSC/AE2/MIDEA/2021-22) dated 01.09.2022
6. B.O (FTD).No 266 /2023 (CSC/AE2/MIDEA/2022-23) dated 20.05.2023
7. Note No. MIDEA /2022-23/DB- 22/ 06 dated 12/05/2022 of the AE, MIDEA.
8. Letter No. MIDEA/2022-23/EB-1/36 dated 12/12/2022 of the AE, MIDEA.
9. Order No.EB1(a)/AE)Ele(WA/MIDEA/21 22-dated 3.11.2021 of the CE (HRM).
10. Order No.EB2/SE)Ele(WA/MIDEA/2021 22-dated 30.10.2021 of the CE (HRM).
11. Order No.EB3(b)/SA/WA/MIDEA/2021 dated 30.10.2021 of the CE (HRM).
12. Order No.EB3(a)/SA to SS/Pro/2022 dated 07.11.2022 of the CE (HRM).
13. Order No. EB3(a)/WA/SS/2022-23/73 dated 01.12.2022 of the CE (HRM).
14. Note No CSC/AE2/MIDEA/2023-24/14 dated 17.04.2023 of Chief Safety Commissioner.
15. Note No CSC/AE2/MIDEA-Time extension/2022-23/45 dated 25.05.2023 of Director (T, SO, P & Safety) to the Full Time Directors (Agenda No 21/07/23).

ORDER

MIDEA (Manufacturing unit for Innovative Devices, Equipments & Accessories) was formed as per BO read (1) above for the development and manufacturing of innovative devices for the internal use of KSEBL on an experimental basis for meeting the various technical requirements of the Institution.

Following the aforesaid Board Order, the Chief Engineer (HRM) posted an Assistant Engineer, a Sub Engineer and a Senior Assistant from different offices of KSEBL on working arrangement as per orders read 9,10&11th above. Under this order the Assistant Engineer took charge on 02.12.2021 and commenced the preliminary formation works and office procedures of MIDEA at Electrical Division Cherthala.

Later, when a quarters building at 66 kV Sub Station Quarters, Cherthala was handed over to MIDEA by the Transmission wing after maintenance works on 31.12.2021, the office of MIDEA with the three member team was shifted to the same. Hence, the total period of 18 months which includes the six months allowed for the preliminary formation works and 12 months for completing the entrusted works is being completed by May, 2023.

As per letter read (2), the Assistant Engineer MIDEA (Manufacturing unit for Innovative Devices, Equipments & Accessories), Cherthala has submitted request for time extension along with brief report of the activities of MIDEA for the successful execution and completion of the project.

As per BO read (3) above, the details including work flow in connection with incorporation of materials and works of MIDEA in SCM were prepared and submitted to the Regional IT Unit, Kochi and held discussions and meetings at various levels.

During this period, an innovative device HSO (Hot-stick operated) LT line spacer was developed which can be installed on the LT lines with meagre manpower and standing on the ground.

A Safe Platform for Concrete Poles which helps the workmen to do jobs standing on the concrete poles safely and conveniently was developed by MIDEA during this period.

Sanction was accorded as per BO read as 5th above to adopt the manual system of accounting at MIDEA following the procedure by maintaining proper documents and Registers as described in the manual on Commercial Accounting System Volume II - Material Accounting, and to continue till March 2023 end or till the IT wing complete the inclusion of materials and works at MIDEA in ERP software, whichever is earlier.

As per BO read (6) above an Innovation Approval Body was constituted to evaluate the feasibility of the proposals regarding manufacturing of innovative devices at MIDEA. Also entrusted the Innovation Approval Body for selecting appropriate technology from available multiple choices of technologies of innovation proposals coming from individuals, institutions etc outside KSEBL for a specific requirement and to report to the Chief Safety Commissioner.

As the inclusion of MIDEA in the ERP was delayed, the production of 1000 Nos of ACSR/ Ferrous Material Detectors was also delayed. In this circumstance, following the demand from various circles, 220 Nos. of the device were produced and distributed to different Electrical Circles at their own expenses. This device which makes the detection of AAC/ACSR conductors simple, turns the completion of reconductoring works in field easy and secure. Hence, this device has a huge demand from the field offices.

On the basis of the delay in inclusion of MIDEA in ERP, passed an order on the request for granting permission for the works to be done with manual accounting (vide BO read 5). As per this order, meetings were held at different levels at Electrical Division, Cherthala which is the ARU of MIDEA, Electrical Circle, Alappuzha and at Regional Store, Alappuzha. Following this, production of remaining 780 Nos. of ACSR / Ferrous material Detector, the first product entrusted with MIDEA, was completed under manual accounting.

The production process of another product B-Alert Voltage Proximity Detector (100 Nos.) is also being carried out. The device gives alert when the worker reaches the minimum safe distance from the electric circuit. Also the special mobile phone version of B-Alert was developed and a report was submitted after successful demonstration of the prototype at various levels.

An equipment was developed namely, Temporary Fixture for PSC/ RCC/ Broken Poles which helps in handling the broken PSC/RCC Poles safely and also in maintaining supply until the replacement of the same using new poles. The prototype was made and report is submitted after successful demonstration at various levels.

Future goals which are under development and expected to complete within one year are as follows

1. Production of 1000 set Special Line Shorting Clips.
2. Production of 10000 Nos. Flags for AB Switches.
3. Production of 10000 Nos. Special Connectors for AB Switches.
4. Production of 1000 Nos. Earth Spikes.
5. Production of 1000 Nos. Line Clamps for the renovation of Earth Rods.
6. Development of Electric Spark Detector which helps to detect spark due to loose connection in electric connection /contacts is in the final stage. The

prototype will be made shortly. Usage of this device will reduce the loss of energy, interruptions, accidents to a great extent and also make the repairing work easy.

7. MIDEA has developed an equipment for joining OH Line ACSR conductor in proper and convenient way and the proto type is under development. If this device is put into use in the system, considerable reduction in the loss of energy, interruptions and accidents can be achieved.
8. Further processes related to the proliferation of the following equipments.
 - a) HSO Spacer developed by MIDEA.
 - b) Safe Platform for Concrete Poles in the field.
 - c) Temporary Fixture for PSC /RCC Broken Poles.
9. Development of device which gives alerts about presence of Electricity in AB Switches.
10. Development of device which helps detecting cables with electric current in places where multiple cables are entwined and laid down.
11. Though MIDEA has developed an equipment for digging pits properly and easily for installing poles and stays and prototype was developed, the same is yet to be finalized due to the detection of some shortcomings.
12. Development of device for climbing on the poles easily and safely.
13. Development of device for handling and lifting the poles conveniently and safely.
14. Development of special type Anchor Type Stay Set which is apt for poles in the places with insufficient space.
15. Providing opinions of MIDEA on technical issues which sought from other offices of KSEBL.

It is found more feasible that the production of the new devices for the field requirements be completed at MIDEA using the fund of each Circle / Division level offices. This way of production is helpful in getting rid of some issues such as that related to funds, ERP-accounting procedures, store accounting procedures, movement of files etc. This will make the works of MIDEA more efficient by avoiding delays.

In these circumstances, it is recommended that, for completing the works entrusted with MIDEA, for making the models of new innovative technologies formulated, sanction for extension of the functioning of MIDEA for another one year from June 2023 to May 2024 is necessary.

Besides, for the smooth, efficient and time bound completion of the tasks, the working arrangement of Shri. Baiju.K.C (1050713), Assistant Engineer and Shri. Jayesh. K.P (1054937), Sub Engineer who are working presently at MIDEA on working arrangement as per orders read as 9th & 10th, is required to be extended for another one year too.

The matter was placed before the Full Time Directors as per note read as 15th above. Having considered the matter in detail, the Full Time Directors meeting held on 26.07.2023 resolved to accord sanction for the following.

1. To grant time extension to MIDEA, Cherthala for one year from 1st June 2023 to 31st May 2024 for the successful execution and completion of works.
2. To extend the service of Sri. Baiju. K.C (1050713), Assistant Engineer and Sri. Jayesh. K.P (1054937), Sub Engineer who are working presently at MIDEA on working arrangement for another one year at MIDEA.
3. To extend the manual system of accounting at MIDEA as per Board order read as 5th sanction obtained for following the procedure by maintaining proper documents and Registers as described in the Manual on Commercial Accounting System Volume II - Material Accounting, until IT wing complete the inclusion of materials and works at MIDEA in ERP software.
4. To give sanction to MIDEA for the manufacturing works of the devices developed by MIDEA as per the demand and using appropriate fund of each Circle / Division level offices, for avoiding the delay in the manufacturing and transferring procedure due to the issues such as that related to funds, ERP-accounting procedures, store accounting procedures, movement of files etc
5. To authorise the Chief Safety Commissioner to conduct quarterly performance review of the works at MIDEA.

Orders are issued accordingly.

By Order of Full Time Directors

Sd/-

LEKHA.G
Company Secretary

To

1. The Chief Safety Commissioner.
2. The Chief Engineer (IT, CR & CAPS).
3. The Chief Engineer (HRM).
4. The Executive Engineer, Ele Division, Cherthala.

Copy to

1. The Financial Advisor.
2. The TA to Chairman & Managing Director / Director (Distribution, IT, SCM & Safety) / Director (Transmission, System Operation, Planning)/ Director (Generation - Ele , REES, SOURA, Sports and Welfare/ Director (Generation- Civil).
3. The PA to Director (Finance, & HRM)) / C.A. to C.V.O. / C.A. to Secretary, (Administration)/ Company Secretary.
4. The Deputy Chief Engineer, Alappuzha.
- 5 The Executive Engineer, ITCU, Vyduthibhavanam, Thiruvananthaouram
- 6 The Assistant Engineer, MIDEA, Cherthala.
7. File Copy.

Forwarded by order,


Assistant Engineer.