



### ABSTRACT

MIDEA - Institutionalize various activities and identification of innovative and pilot projects in a systematic manner for the evaluation and further development at MIDEA- Orders issued.

### CORPORATE OFFICE (Safety)

**B.O (FTD). No. 266 /2023 (CSC/AE2/MIDEA /2022-23) Tvpmm, dated 20.05.2023.**

- Read: 1) B.O (FTD) No-662/2021(CSC/FTD/ Innovation-AE-2/2021-22) dated. 17.09.2021.  
2) Office Order (DPS&SCM) No-34/2022 (No.CSC/AE-2/MIDEA/2021-22) dated. 07.01.2022.  
3) B.O (FTD).No747 /2022 (CSC/AE2/ MIDEA /2021-22), dated: 01.09.2022.  
4) Letter No: CSC/AE-2/MIDEA-Institutionalize /2021-22/ 124 dated: 18.11.2022.  
5) Note No: CSC/AE-2/MIDEA-Institutionalize /2021-22/ 235 dated: 21.12.2022.  
6) Note No. DGE/G3/nominations-Innovation/2022-23/1272 dated 08.02.2023 of the Director (Gen-Ele &HRM)  
7) Note No DGC/AEEII/General/MIDEA/2023 dated 01.04.2023 of the Director (Gen-Civil)  
8) Note No DIRIT-AE5/2023/910 dated 03.04.2023 of the Director (Dist, IT & SCM)  
9) Note No. CE (REES)/TA/General/20232-24/77 dated 19.04.2023 of the Chief Engineer (REES).  
10) Note No: CSC/AE-2/MIDEA-Institutionalize /2021-22/ 24 dated 04.05.2023 of the Director (T,SO,P& Safety) to the Full Time Directors (Agenda No 23/5/23).

### ORDER

The MIDEA (Manufacturing unit for Innovative Devices, Equipments & Accessories) was formed as per BO read as 1<sup>st</sup> above for the development and manufacturing of innovative devices for the internal use of KSEBL. As per the order, the first six months was envisaged as the formation period and the remaining one year for the execution of the entrusted works on an experimental basis. The setting up of office, preparation of detailed estimates, scheduling of works etc. have been completed during the formation period which came to an end during March 2022.

As per the BO read as 3<sup>rd</sup> above sanction was accorded 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. And also authorized the Executive Engineer, Electrical Division, Cherthala to make necessary arrangement at

Electrical Division, Cherthala for monthly accounting of all transactions done through manual system at MIDEA, Cherthala.

The Board has entrusted MIDEA to manufacture 7 devices using novel technology for the use of field offices. The manufacturing process is delayed due to the problems faced in proceedings of accounting in new ERP software. This has been resolved by sanctioning manual accounting till March, 2023, and now the production process has been started. During the aforesaid period, MIDEA has ideated and started the following innovation activities which are ongoing.

1. **HSO Spacer (Hot Stick Operated Spacer):-** A special type LT OH line spacer which is safer and able to be installed by a single person from ground with the help of a hot stick / earth rod fitted with a special tool.
2. **Safe Platform for Concrete Poles:-** This is a device for standing on poles comfortably.
3. **Spiral Insulation Sleeve for OH line conductor:-**It is a low-cost device developed by MIDEA for avoiding accidents due to snapping of conductors by collision and for reducing energy loss due to leakage in vegetated areas and long span lines.
4. **Pole Pit Digging tool:-** It is a unique device which helps digging pits for pole/stays keeping standards, conveniently and saving time.
5. **Loose connection detector:-** This is a device for detecting severe loose connections which leads to accidents due to fire, energy loss and supply interruption in Electrical contacts such as fuse terminals, switches, conductor joints and other circuits. It helps to avoid the aforesaid incidents by timely detection of loose connections and rectification.
6. **B-Alert -** a voltage proximity detector for detecting hazardous voltage which can be worn like a wrist watch.
7. **B-Alert Mobile Version:-**This is a proximity hazardous voltage detector comprising of a mobile application software and a sensor.
8. **Live UG Cable detector:-** A device to identify live UG Cables by detecting the presence of hazardous electric supply to avoid accidents while working on places where a bunch of UG cables are laid such as Substations.

Presently MIDEA is masterminding or developing technologies and devices to solve the various technical challenges faced by the field offices. In order to institutionalize various activities and for identification of innovative and pilot projects in a systematic manner, the process at MIDEA needs to be institutionalized.

The matter was placed before the Full Time Directors as per note read 5<sup>th</sup> paper for decision. The Full Time Directors meeting held on 28.12.2022 resolved to constitute an Innovation Approval Body at Headquarters and then decide the delegation levels once the innovations are approved by the body. Further resolved to scale up and multiplication, the matter be placed before the Full Time Directors.

Accordingly all Directors were requested to nominate one or more officers up to the level of Executive Engineer from the functional wings under their jurisdiction for including in the Board Order for constitution of the Innovation Approval Body. Accordingly, following nominations are received as per paper read as 6<sup>th</sup> to 9<sup>th</sup> above.

Sl no	Name	Emp: Code	Designation	Office	Recommended by
1	Sri. Velayudhan. O.P	1044784	Executive Engineer	Ele Div. Thirurangadi	Director (Dist, IT & SCM)
2	Sri. Sakkir Hussain	1040173	Executive Engineer	Research & Dam Safety Organisation, Pallom.	Director(Gen-Civil)
3	Sri. Jibu KC	1058837	Assistant Executive Engineer	O/o The Chief Engineer (Civil Construction) South.	Director(Gen-Civil)
4	Sri. Binukumar. M	1044955	Executive Engineer,	O/o The Dy Chief Engineer with full powers of CE, PED.	Director(Gen-Ele &HRM)
5	Sri. Sreejith.S	1049069	Assistant Executive Engineer	SGE Mace Sub Division, Moozhiyar.	Director(Gen-Ele &HRM)
6	Sri. Sajukumar	1058719	Assistant Executive Engineer	Trans Sub Division, Neyattinkara	Director(T,SO, Planning & Safety)
7	Sri Sajin Mohammed Ismail	1105308	Assistant Engineer	O/o Chief Engineer REES	Chief Engineer (REES)

The matter was again placed before the Full Time Directors as per the note read as 10<sup>th</sup> above.

Having considered the matter in detail the Full Time Directors meeting held on 11.05.2023, resolved to accord sanction to constitute the Innovation Approval Body with the following members to evaluate the feasibility of the proposals regarding manufacturing of innovative devices at MIDEA.

1. The Chief Safety Commissioner- Chairperson.
2. Sri.Velayudhan. O.P. (Emp Code: 1044784), Executive Engineer, Thirurangadi.
3. Sri. Sakkir Hussain, (Emp Code: 1040173) Executive Engineer (Civil) Research & Dam Safety Organisation, Pallom.
4. Sri. Jibu KC, (Emp Code: 1058837) AEE (Civil) O/o The Chief Engineer (Civil Construction) South.

5. Sri. Binukumar M, (Emp Code: 1044955) Executive Engineer, O/o The Dy Chief Engineer with full powers of Chief Engineer, PED.
6. Sri. Sreejith.S, (Emp Code: 1049069) AEE, SGE Mace Sub Division, Moozhiyar.
7. Sri. Sajukumar (Emp Code: 1058719) AEE, Trans Sub Division, Neyattinkara.
8. Sri Sajin Mohammed Ismail, (Emp Code: 1105308) AE, O/o Chief Engineer REES
9. Sri. Baiju K.C, (Emp Code: 1050713) Assistant Engineer, MIDEA .

Further resolved to entrust 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 shall be reported to the Chief Safety Commissioner.

Further resolved to entrust the Chief Safety Commissioner to submit the proposals if necessary, along with recommendation of the Innovation Approval Body, before the Board for getting approval regarding the adoption of the proposal.

Further resolved to entrust the Deputy Chief Engineer, Electrical Circle, Alappuzha to take all steps including tendering for manufacturing of approved devices through MIDEA.

Further resolved to authorize concerned ARU heads to inform the ongoing innovation activities under different wings of KSEBL to MIDEA for planning, evaluation, adaptation of technologies and grabbing awards, financial aids and other recognitions from Union and State Governments and different agencies.

Further resolved to authorize the Chief Engineer SCM to include one representative authorized by the Chief Safety Commissioner, in the technical committee for the procurement of new inventories.

Orders are issued accordingly.

By Order of Full Time Directors

Sd/-

**LEKHA.G**

**Company Secretary**

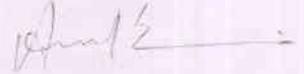
To

1. The Chief Safety Commissioner.
2. The Chief Engineer (SCM).
3. The TA to Director (Dist, IT, SCM, REES, Soura, Nilavu, Sports & Welfare)
4. The TA to Director (Trans, SO, Planning, Safety & Generation-Electrical)
5. The TA to Director (Generation-Civil)
6. The PA to Director (Finance & HRM)
7. The Deputy Chief Engineer, Electrical Circle, Alappuzha.

**Copy to**

1. The TA to Chairman & Managing Director.
2. Sri.Velayudhan. O.P. (Emp Code: 1044784), Executive Engineer, Thirurangadi.
3. Sri. Sakkir Hussain, (Emp Code: 1040173), Executive Engineer (Civil) Research & Dam Safety Organisation, Pallom.
4. Sri. Jibu KC, (Emp Code: 1058837) AEE (Civil) O/o The Chief Engineer (Civil Construction) South.
5. Sri. Binukumar M, (Emp Code: 1044955) Executive Engineer, O/o The Dy Chief Engineer with full powers of Chief Engineer, PED.
6. Sri. Sreejith.S, (Emp Code: 1049069) AEE SGE Mace Sub Division, Moozhiyar.
7. Sri. Sajukumar (Emp Code: 1058719) AEE Trans Sub Division, Neyattinkara.
8. Sri Sajin Mohammed Ismail, (Emp Code: 1105308) AE O/o Chief Engineer REES.
9. Sri. Baiju K.C, (Emp Code: 1050713) Assistant Engineer, MIDEA.
10. The Company Secretary.
11. Fair Copy Superintendent/ Stock File.

Forwarded by order



Assistant Engineer