

ಹುಬ್ಬಳ್ಳಿ ವಿದ್ಯುತ್ ಸರಬರಾಜು

ಕಂಪನಿ ನಿಯಮಿತ

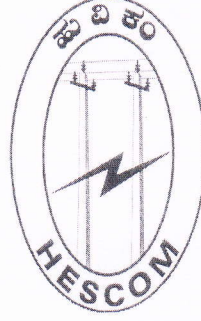
[ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಸಂಪೂರ್ಣ ಸಾಮ್ಯಕ್ಕೆ ಒಳಪಟ್ಟಿದೆ]

ನಿಗಮ ಕಛೇರಿ,

ನವನಗರ, ಪೂ.ಬೆಂ. ರಸ್ತೆ, ಹುಬ್ಬಳ್ಳಿ- 580 025.

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**HUBLI ELECTRICITY SUPPLY
COMPANY LIMITED**

[Wholly owned Govt. of Karnataka undertaking]

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Preamble:

1. The Indian Electricity Act 2003 has ushered an era of power reforms in the country. The Act envisages major reforms in the power sector. The Act invokes the philosophy of liberalization, competitiveness and commercial motive for business survival. This makes the process of balancing the commercial objective vis-a-vis the social concern even more challenging.
2. The regulatory Regime is closely monitoring the operations of power utilities and driving them to attain newer heights of operational efficiency by setting stringent target, goals and also penalties in cases of default. The power utilities have to adopt necessary measures to enhance efficiency and improve customer satisfaction. Constant Research and Development as per upcoming requirement is a very essential to enhance efficiency at all levels of operation and ensure greater degree of protecting equipment and safe operation.
3. Importance of R&D applications in the field of Distribution- HESCOM.
 - Power flow and losses study.
 - Fault current calculations.
 - System protection design and coordination.
 - Load shedding study and design.
 - Real and reactive power compensation and control.
 - System control and stability.
 - System earthing.
 - Earth mat design, Earth integrity check, strengthening design.
 - Oil Test lab.
4. R&D implementation in HESCOM.
 - Supervision of Transformer healthiness by periodically oil testing, tan-delta and capacitance test.
 - Soil resistivity test.
 - Earth mat design, Earth integrity test.
 - Co-ordination with MRT for any tests to conduct for diagnostics.
 - Arranging for IPP/ Consumer station earth mat designs consultancy works at Corporate approved rates.

[P.T.O.]

- Shall act as co-ordinator between KPTCL and other research institutions/ organization involved in research and development activities like Central Power Research Institute, Power Grid Corporation of India Ltd., Ministry of Power, GoI, KREDL, MNRE etc.

5. HESCOM is benefited in forming R&D pool in the following way.

- Improvement of Distribution efficiency by reducing outage time.
- Better revenue realization through collecting Testing fees and saving Testing fee by avoiding testing by KPTCL or some other agencies.
- Loss calculation and hence reduction through better control and monitoring of the distribution system. Helps in improving economy and safe operations of staff.
- By testing our equipments/ oil in our R&D it minimizes expenditure and providing service to KPTCL, IPP/ Consumer stations can improve economy.
- Improved customer services.
- Helps in identifying organization in the field. And acts as means to draw funds for strengthening of the organization.
- Research and Development is perceived as an enabler to achieve the mission objectives.

6. Hence, the Board has discussed the matter and resolved, for the creation of new Research and Development Cell in the Corporate Office, HESCOM, Hubballi in the 66th BoD meeting of HESCOM held on 16.06.2015 vide Subject no. 66/19.

Hence, the following order;

No: HESCOM/GM (A)/AO(A)/AAO(A)/66th BM/CR-12/14-15/CYS-1620

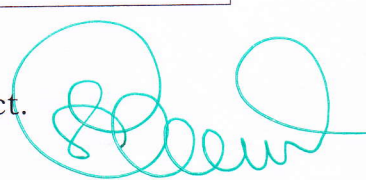
Date: - 6 AUG 2015

In accordance with the preamble cited above, I am directed to convey the approval of the Board, for the creation of new **Research and Development Cell** at Corporate Office, Hubballi with the following constitutions.

Sl. No.	Name of the Sanctioned Post	No. of new post created/ sanctioned	Remarks
1	Executive Engineer (Ele.)	1	Works under the supervision of General Manager(Tech.)
2	Assistant Executive Engineer (Ele.)	1	Field testing and for lab works under supervision of EE(Ele.)(R&D)

The duties and responsibilities are annexed herewith.

The above order shall come in to force with immediate effect.


**General Manager
(Admin & HRD)**

Copy with compliments to:

- 1) Additional Chief Secretary, Energy Department, GoK, Bangalore.

Copy to:

- 1) Director (Admin & HR), KPTCL, Kaveri Bhavan, Bangalore.
- 2) Director (RA) & Company Secretary, KPTCL, Kaveri Bhavan, Bangalore.
- 3) Director (Technical), Corporate Office, HESCOM, Hubballi.
- 4) Financial Adviser, Corporate Office, HESCOM, Hubballi.
- 5) General Manager (Technical), Corporate Office, HESCOM, Hubballi.
- 6) Chief Engineer (Ele), Hubballi/Belagavi Zone, HESCOM, Hubballi/Belagavi.
- 7) Superintending Engineer (El), PMC/T&P, Corporate Office, HESCOM, Hubballi.
- 8) All Superintending Engineers (Ele), O&M Circle, HESCOM.
- 9) Controller of Accounts (I/A)/ (A&R), Corporate Office, HESCOM, Hubballi.
- 10) All Executive Engineers (Ele), O & M Division, HESCOM.
- 11) All Accounts Officer, O & M Division, HESCOM
- 12) Accounts Officer (Internal Management), Corporate Office, HESCOM, Hubballi.
- 13) Accounts Officer (I/A), (Internal Management), Corporate Office, HESCOM, Hubballi.
- 14) PS to MD, Corporate Office, HESCOM, Hubballi.



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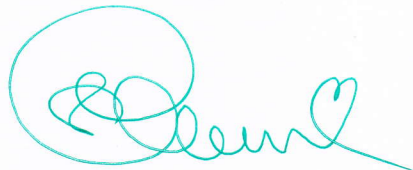
Duties and Responsibilities of Research and Development Cell.

A. Name of the Post: Executive Engineer (Ele.).

1. Coordination with EE's of S&L Division for arranging soil resistivity measurement of new station sites as per APW/ existing 33KV S/s.
2. Verification of technical aspects of new designs of earth mat system for proposed new stations/ existing stations in HESCOM.
3. Plan and implement earthing investigation of stations as per request of MRT or S&L and suo-motu by R&D center and monitoring, compliance.
4. Verification of existing earth mat and providing revised designs for by extension/ Augmentation works.
5. Planning and Implementation of tan-delta test of power transformers of 5MVA and above capacity.
6. Planning the test schedule of transformer oil samples of sub-station in HESCOM grid and monitoring with S&L Engineers.
7. Verification of the test results analysis and recommendations from oil lab.
8. General office administration, field visits for special cases, demos and EPR tests.
9. Arranging for IPP/ consumer station earth mat designs consultancy works at corporate approved rates.
10. Any other works assigned by the superior officers pertains to R&D activities.

B. Name of the Post: Assistant Executive Engineer (Ele.).

1. Conducting Soil resistivity test of HESCOM proposed/ existing stations.
2. Conducting Soil Resistivity test of Proposed/ Existing Sub-stations of HESCOM/ IPPs/LIS.
3. Preparing Earth mat design.



4. Conducting Earth Integrity test of existing Stations.
5. Preparing reports of Earth Integrity test with observations and remedial measures for strengthening earth-mat.
6. Conducting of Tan-delta test on Power Transformers, Power transformer bushings and insulators.
7. Periodical Testing of Transformer oil as per IS 1866-2000, IS335.
8. Dissolved Gas analysis of oil sample as per IS 10593-2006.
9. Furan analysis of Transformer oil as per IEC61198.
10. Oil laboratory Correspondence.
11. Any other works assigned by the superior officers pertains to R&D activities.



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**General Manager
(Admin & HRD)**