



भारत सरकार  
विद्युत मंत्रालय  
केंद्रीय विद्युत प्राधिकरण  
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[ISO 9001:2008]

No. 6/AI/DST(GS)/GM-15/

Date : 03-06-2015

सेवा मे,

- |   |                           |
|---|---------------------------|
| 1.. श्री एस.के.सूनी.  | 2. श्रीमती सीमा गुप्ता    |
| सी. ई.ओ., पोसोको  | सी. ओ.ओ., सी.टी.यू.       |
| बी-9, कुतुब इंस्टीट्यूशनल एरिया,  | सौदामिनि, प्लाट संख्या-2, |
| कटवारिया सराय, नई दिल्ली-110016   | गुडगाव - 122001           |
| 3. Ms Vijaya Kumari P, Chief Engineer, (Trans. SO), KSEB SLDC, Kalamassery-683503 |                           |

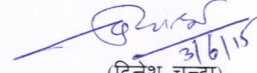
**विषय:** दिनांक 22.05.2015 को ग्रिड स्टडी कमेटी की हुई प्रथम बैठक का कार्यवृत्त ।

महोदय/महोदया,

उपरोक्त विषय से सम्बन्धित दस्तावेज आपकी जानकारी एवम आवश्यक कार्यवाही हेतु संलग्न है ।

संलग्नक : यथोपरि

भवदीय

  
(दिनेश चन्द्रा)  
मुख्य अभियंता

प्रतिलिपि सूचना व आवश्यक कार्यवाही हेतु :

1. सदस्य सचिव, उत्तरी क्षेत्र विद्युत समिति / पश्चिमी क्षेत्र विद्युत समिति / दक्षिण क्षेत्र विद्युत समिति / पूर्वी क्षेत्र विद्युत समिति / उत्तर पूर्वी क्षेत्र विद्युत समिति
2. मुख्य अभियंता, एस.पी.एवम पी.ए., केंद्रीय विद्युत प्राधिकरण
3. मुख्य अभियंता, आर.ए., केंद्रीय विद्युत प्राधिकरण

प्रतिलिपि सूचनार्थ:

सदस्य,(ग्रिड प्रचालन एवम वितरण), केंद्रीय विद्युत प्राधिकरण

**SUMMARY RECORD OF DISCUSSIONS AT THE FIRST MEETING OF THE GRID STUDY  
COMMITTEE HELD ON 22<sup>nd</sup> MAY 2015 IN CEA**

The 1<sup>st</sup> meeting of the Grid Study Committee was held in CEA on 22<sup>nd</sup> May 2015 under the chairmanship of Shri Major Singh, Member (GO&D), CEA to discuss & decide the modalities for finalization of data/inputs for the proposed consultant in order to commence the study/analysis to ensure secure and reliable operation of the grid. The list of participants at the meeting is enclosed at Annex.

Member (GO&D), CEA welcomed the participants at the meeting and noted the absence of representative of NERPC with concern. Proceeding with the deliberations at the meeting, Member (GO&D) informed that in pursuance of the decision taken at the meeting held in MoP under the chairmanship of Secretary (Power) to consider recommendations contained in the report submitted by the Task Force on Power System Analysis under contingencies, Ministry of Power vide order dated 16.7.2014 had directed POWERGRID to appoint a consultant to conduct the study / analysis to ensure secure and reliable operation of the National Grid. Further, a Grid Study Committee under the chairmanship of Member (GO&D), CEA was also constituted vide the same order to facilitate the Consultant's study / analysis. He informed that the process of appointment of Consultant by POWERGRID is in the advanced stage and the meeting of the Grid Study Committee had been convened to discuss the road map / course of action to carry out the job.

He opined that RPCs and CEA's SP&PA and RA Divisions had significant roles in facilitation of execution of tasks as per ToR, and suggested that these could be co-opted as Members of the Committee. The same was agreed to by the Committee.

Referring to MoP's order dated 29.9.2014 in continuation of its order dated 16.7.2014, Member (GO&D) informed that POSOCO would bear the consultancy charges for the consultant to be appointed by POWERGRID, which is only a facilitator for POSOCO in the matter of appointment / selection of Consultant through the process of international competitive bidding. The same was also recorded in the minutes of the meeting held in MoP on 28.8.2014. As per MoP order dated 16.7.2014, all logistics and administrative expenses on account of the Grid Study Committee shall be borne by the CTU (POWERGRID). He further stated that the role of POWERGRID as a facilitator would be only up to the award of work to the consultant, and then POSOCO may take over from POWERGRID and co-ordinate the work of study between the consultant and power sector entities till the completion of above work. Grid Study Committee would facilitate and monitor the process of furnishing of input data for the study / analysis by the consultants through its meetings. POSOCO was to nominate an officer of the level of General Manager or above to act as Member Convenor of the Committee. POSOCO representative suggested that the meeting of the Grid Study Committee could be convened at least once a month. However, in case, a meeting is required to be convened at a short notice, it could be held through video conferencing system available at the RLDCs where the nodal officers of the states of the concerned region would also be able to participate.

Giving a background regarding selection of two instead of one consultant mentioned in MoP order dated 16.7.2014, Member (GO&D) informed that keeping in view the diverse nature of tasks included in the ToR and the volume of work involved in execution thereof, it was

decided by the Ministry of Power in consultation with CEA, POSOCO and CTU to bifurcate the ToR into two parts 'A' & 'B' and engage two instead of one consultant to execute the related tasks. Accordingly, POWERGRID is in the process of selection of two international consultants through global tender - One for Package-A i.e. protection audit at substations in various states and reviewing implementation of recommendations of grid disturbance Enquiry Committee; and another for Package-B i.e. Review of the methodology of computation of TTC (Total Transfer Capability), operational planning for safe & secure operation of the grid, etc. Though the process of appointment of both the consultants was in advanced stage, that of Consultant-A was very close to conclusion. Therefore, an action plan was required to be chalked out for collection of data/inputs for the consultant to commence execution of the assigned tasks. The inputs would be needed from GENCOs, TRANSCO, DISCOMs, RLDCs, SLDCs, RPCs, etc in the country and the same were required to be furnished in a shortest possible time frame so that the assigned task may be completed by the consultant at per schedule. Specific inputs and format thereof would be intimated by the consultant in a week or two. In order to facilitate interaction / coordination with the state utilities for collection of data, nodal officers may be nominated by the states. Thereafter, he requested Chief Engineer (GM), CEA to brief the Committee on other issues for deliberation and/or further necessary action by various agencies / entities.

Chief Engineer (GM), CEA, based on the communication from POWERGRID, informed that the input data requirement and the format in which the data was to be provided, would be intimated by the Consultant within a week of award of work, and the zero date of the commencement of work by the consultant would start after supply of the requisite inputs / data to him. This was confirmed by the POWERGRID representative. Member (GO&D), CEA advised all concerned to ensure availability of required inputs / data to POSOCO for the purpose of study by the Consultant in a time-bound manner. Chief-Engineer (GM) further stated that as per the ToR, the consultant is required to review the protection audit at 10% of the total number of substations (got audited during the year 2012-13 after grid disturbances of July 2012) and also carry out protection relay settings at those substations. As the third party protection audit was carried out at 762 substations in the country in that year, 76 out of those substations were required to be identified for protection audit review and protection relay settings. In order to facilitate the identification of the said 76 critical substations, he suggested ERPC, NRPC, SRPC & WRPC to prepare in consultation with respective RLDCs a list of 25 critical substations each (220 KV and above) in the descending order of their criticality and NERPC in consultation with NERLDC to prepare a list of 15 such substations, and forward the same to CEA and NLDC (POSOCO) for finalising the 76 most critical substations out of those 115 critical substations for the purpose. He further pointed out that since the consultant was also to carry out protection relay settings at the aforesaid 76 substations in coordination with respective STU/CTU, the existing relay settings data of these substations should be kept ready by the concerned utilities for sharing with the consultant. Further, since the protection philosophy being adopted by different utilities was also to be studied by the consultant to enable him make suitable recommendations in that regard, this information should also be kept ready by the concerned agencies / utilities.

Referring to the constitution of the Grid Study Committee, Chief Engineer (GM) pointed out that as per MoP order, one STU from each region would be a member of Grid Study Committee. CEA had already sent a request to each RPC to nominate a member at the level of

Chief Engineer / General Manager from a suitable STU in its region, to the Committee. However, the nomination had been received only from SRPC, which had nominated Chief Engineer (Transmission & SO), KSEB from SR. He requested Member Secretaries of other RPCs also to forward the nomination of an officer from an appropriate STU in their respective region.

Besides nomination of members from STUs to the Grid Study Committee as mentioned above, Chief Engineer (GM) also sought nomination of one Coordinating Officer (Nodal Officer) each from various state entities viz. TRANSCO (STU), GENCOs, DISCOMs & SLDC, as the consultant would be required to interact with these entities to execute the assigned tasks during the study. In order to have effective coordination, he suggested that the nominations should be at a level of Chief Engineer/GM rank or above. Similar nominations could be obtained by POSOCO from Central Sector generating company(ies). Member (GO&D) advised RPCs to forward nominations for the nodal officer (main as well as alternate) from each State of their region to CEA and POSOCO for interaction with the consultant.

**After deliberations, the following decisions were taken:**

- a) Member Secretaries of all the five RPCs, Chief Engineer (SP&PA), CEA and Chief Engineer (RA), CEA to be co-opted as Members of the Grid Study Committee.
- b) POSOCO to nominate an officer of the level of General Manager or above to act as Member Convenor of the Committee.
- c) Member Secretaries of ERPC, NERPC, NRPC & WRPC to forward the nomination of an officer at the level of Chief Engineer / General Manager from an appropriate STU in their respective region for membership of the Grid Study Committee.
- d) Meeting of the Grid Study Committee would be convened at least once a month.
- e) POSOCO to take over from POWERGRID and co-ordinate the work of study between the consultant and power sector entities after award of work to the consultant(s) till the completion of above work.
- f) Specific inputs required by the Consultant(s) for executing the assigned tasks and the format thereof would be collected by POSOCO from the Consultant(s) within the time-frame stipulated in the MoU signed with them and forwarded to the nodal officers of the concerned agencies / entities for collection and submission of the requisite inputs back to POSOCO.
- g) ERPC, NRPC, SRPC & WRPC in consultation with respective RLDCs to prepare a list of 25 critical substations each (220 KV and above) in the descending order of their criticality in their respective regions and NERPC in consultation with NERLDC would do it in respect of 15 such substations of 132 kV voltage level & above, and forward the same to CEA and NLDC (POSOCO) for finalising the 76 most critical substations immediately. The existing relay settings data of the substations identified by the RPCs would be kept ready by the concerned transmission utilities for sharing with the consultant.
- h) The protection philosophy being adopted by the utilities to be kept ready as the same would also be studied by the consultant to enable him make suitable recommendations in that regard.

- i) Member Secretaries of all RPCs to send nomination of one Coordinating Officer (Nodal Officer) each at the level of Chief Engineer / General Manager from various state entities viz. TRANSCO (STU), GENCOs, DISCOMs & SLDC of different States in their region as the consultant would interact with these entities to execute the assigned tasks during the study.

Meeting ended with vote of thanks to the chair.

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Meeting dt. 22nd May, 2015  
Central Electricity Authority

List of participants

Smt./Sh.

**CEA:**

- 1) Major Singh, Member(GO&D), CEA ----- In chair
- 2) K.K. Arya, Chief Engineer, SP&PA Division
- 3) Dinesh Chandra, Chief Engineer, G.M. Division.
- 4) D. K. Srivastava, Director, GM Division.
- 5) D. K. Meena, Dy. Director, RA Division
- 6) B. S. Meena, AD-I, G.M. Division.

**NRPC :**

1. P. S. Mhaske, Member Secretary
2. Ajay Talegaonkar, S.E.
3. Naresh Kumar, EE

**WRPC :**

1. M. M. Dhakate, S.E.

**SRPC :**

1. S. R. Bhat, Member Secretary
2. Anil Thomas, EE

**E.R.P.C.:**

1. P. K. De, Executive Engineer.

**POSOCO:**

1. K V S Baba, GM , NRLDC.
2. S. R. Narasimhan, AGM, NLDC.
3. Rajeev Porwal, NRLDC.

**POWERGRID:**

1. A. Sensarma, DGM
2. Shruti Tiwari, Sr. Engineer.

**KSEBL :**

1. Vijaya Kumari, Chief Engineer (System Operations)
2. Anand S. R., E.E(SO)
3. G. Sreenivasan, E.E. (R.E.)
4. Sheela M. Daniel, Resident Engineer.