



पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड
Power Grid Corporation of India Limited

सूचना का अधिकार अभिनियम 2005 के अंतर्गत केन्द्रीय लोक सूचना अधिकारी
Central Public Information Officer under the RTI Act, 2005

केन्द्रीय कार्यालय, 'सौदामिनी', प्लॉट नं.2, सेक्टर-29, गुडगांव, हरियाणा-122007
Corporate Centre, 'Saudamini', Plot No. 2, Sector-29, Gurgaon, Haryana-122007



PGCIL/R/21/M-28

दिनांक: 15 November, 2021

Shri Padamjit Singh,
Padamjit Singh, 45, Ranjit Bagh,
Opp. Modi Mandir, Patiala,
Punjab - 147 004,

विषय: सूचना का अधिकार अधिनियम, 2005 के तहत जानकारी।

महोदय / महोदया,

कृपया आर.टी.आई. अधिनियम, 2005 के तहत दिनांक 20 October, 2021 को प्रेषित अपने आर.टी.आई. अनुरोध का संदर्भ लें।

उपरोक्त पत्र में वांछित जानकारी अनुलग्नक-1 में संलग्न है।

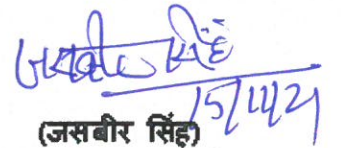
यदि आप केन्द्रीय लोक सूचना अधिकारी के उत्तर से संतुष्ट न हो तो, केन्द्रीय लोक सूचना अधिकारी के उत्तर की प्राप्ति के 30 दिनों के भीतर पहले अपील प्राधिकारी के सम्मुख अपील की जा सकती है। आरटीआई अधिनियम, 2005 के तहत केन्द्रीय कार्यालय, गुडगांव में अपील प्राधिकारी का विवरण निम्नानुसार है:

श्री बी. अनंत शर्मा

कार्यपालक निदेशक (सी. एस.) एवं अपील प्राधिकारी
केन्द्रीय कार्यालय, पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड,
सौदामिनी, प्लॉट नंबर-2, सेक्टर-29, गुडगांव-122001, हरियाणा।
ईमेल आईडी: appellate.cc@powergrid.co.in
फोन नंबर: 0124-2571994

धन्यवाद,

भवदीय,


(जसबीर सिंह)

मुख्य महाप्रबंधक (के. आ.) एवं के.लो.सू.अधिकारी

Email ID: cpio.cc@powergrid.co.in

Sub.: Reply to RTI Request of Shri Padamjit Singh, Patiala, Punjab

Sl.No.	Information sought:	Reply:
	<p>It is requested that the following information may please be supplied under RTI Act 2005:</p> <p>DESCRIPTION: Ministry of Power sent a letter 15/1/2021-Trans dated 01-09-2021 addressed to all States/UTs Chief Secretaries, and Principal Secretaries/Power of all States and UTs on the subject of bringing 33 kV system under transmission for performance improvement of sub-transmission system. A Committee had been constituted under chairmanship of CMD/PGCIL and with representation from CEA and some STUs. Report of Committee had been discussed in meeting taken by Minister/Power on 16-8-2021.</p>	
Point No. 3	<p>INFORMATION REQUESTED TO BE SUPPLIED:</p> <p>Please inform the dates when this Committee held meetings and supply copy of the minutes of these meetings.</p>	<ol style="list-style-type: none"> 1. 1st meeting of the committee was held on 11th March, 2021- MOM enclosed at Annexure-A. 2. 2nd meeting & 3rd meeting were held on 09th June, 2021 & 22nd June, 2021 through Video Conference to deliberate on draft report based on data/information received from Utilities and after deliberations, the comments of the members were incorporated in the report. 3. Meeting of the committee with Secretary (Power) was held on 14th July, 2021 to finalise the report- MOM enclosed at Annexure-B.

हरपदमजित



Ref No. C/CTU/00/ST

Date: 12/03/2021

To,

- As per distribution -

Sub: Record Note of discussions of the 1st committee Meeting held on 11-March-2021 to look into issues of Sub-Transmission System as directed by Ministry of Power, GoI.

Dear Sir,

Please find enclosed Record note of discussions of the 1st committee meeting to look into issues of Sub-Transmission System held under the Chairmanship of Shri K. Sreekant, CMD, POWERGRID on 11-March-2021. Copy of the presentation is also enclosed.

Thanking you,

Yours-sincerely,

(Subir Sen)

Member Secretary &
COO (CTU) – POWERGRID

Email: subir.a.powergridindia.com

Ref No. C/CTU/00/ST

Date: 12/03/2021

Distribution:

<p>1. Shri K. Sreekant, CMD Power Grid Corporation of India Ltd "Saudamini", Plot No. 2 Sector-29, Gurgaon Email: cmd@powergridindia.com</p>	<p>2. Shri Ishan Sharan, Chief Engineer Central Electricity Authority Sewa Bhawan, R K Puram New Delhi - 110066 Email: i.sharan@nic.in</p>
<p>3. Shri T.L. Satyaprakash, MD Haryana Vidyut Prasaran Nigam Ltd Shakti Bhavan, Sector-6, Panchkula-134109 Email: md@hvpn.org.in</p>	<p>4. Shri Sanjeev Singh, MD Orisha Power Trans. Corporation Ltd Janpath, Bhubaneswar - 751022 Email: md@optcl.co.in</p>
<p>5. Shri Dinesh T. Waghmare, CMD 'PRAKASHGANGA', C-19, E- Block, Bandra Kurla Complex, Bandra (E) Mumbai - 51 Email: md@mahatransco.in</p>	

Record Notes of discussion (RNoD) of 1st meeting of the committee constituted by Ministry of Power, Govt. of India to look into issue of Sub-Transmission System

1st meeting of committee was held on 11-Mar-2021 through video conferencing under the chairmanship of CMD, POWERGRID. *List of participants is attached at Annexure-I.*

1. Chairman of the committee welcomed the participants and highlighted the importance of the issues to look into the Sub-transmission system for improvement of reliability and efficiency. He requested Member Secretary to make a presentation in this regard.
2. Member secretary informed that “*Sub-Transmission network i.e 33kV/ 66kV level as an intermediate grid between the distribution and transmission system, receives the electrical energy from the transmission network at extra high voltage level, and deliver it to the distribution network at medium or low voltage levels*” and made a presentation highlighting various aspects of Sub-transmission system towards improvement of the reliability and efficiency. *Copy of the presentation is attached at Annexure-II.*
3. After deliberations, following were decided :
 - A format is to be prepared in association with the committee members for collecting various data on sub-transmission system covering line and substation details.
 - The format shall be circulated to committee members in next three days and thereafter the format will be finalized and circulated to all the states.
 - Thereafter, Member shall arrange to provide required data/information within one week for further deliberation.
 - Next meeting may be held in the 4th week of March '21.

The meeting ended with thanks to the chair.

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Annexure-I

List of participants in the 1st committee Meeting held on 11-March-2021 to look into issues of Sub-Transmission System as directed by Ministry of Power, Govt. of India

1. Shri K. Sreekant, CMD, POWERGRID – Chair
2. Shri Ishant Sharan, Chief Engineer, Central Electricity Authority
3. Shri T.L. Satyaprakash, MD, HVPNL
4. Shri Sanjeev Singh, MD, OPTCL
5. Shri. Shrikant Rajurkar ED, Transmission, Mahatransco
6. Shri Subir Sen, COO, CTU and ED, POWERGRID – Member Secretary
7. Shri Deepak Rokade, SE (STU), Mahatransco

No. 15/1/2021-Trans
भारत सरकार / Government of India
विद्युत मंत्रालय / Ministry of Power
(पारेषण प्रभाग / Transmission Division)

श्रम शक्ति भवन, रफी मार्ग, नई दिल्ली- 110001
दिनांक: 22:0:72021

Office Memorandum

Sub: Minutes of the Meeting held under Secretary (Power) to discuss the Report submitted by the Committee constituted to look into the issue of Sub-transmission system.

The undersigned is directed to forward herewith the Minutes of the Meeting held on 14.07.2021 under the Chairmanship of Secretary (Power) to discuss the Report submitted by the Committee constituted to look into the issue of Sub-transmission system for information and further necessary action.

Encl.: As above



(Goutam Ghosh)
Director(Trans)
Telefax : 2332 5242
E-mail : transdesk-mop@nic.in

To,

1. Chairman, Central Electricity Authority, New Delhi
2. CMD, POWERGRID, Gurugram, Haryana
3. COO, CTUIL, Gurugram.

Copy to:

PPSs/PSs to Secretary (Power)/ AS(VKD)/ AS(SKGR)/ (Transmission)/ JS(Distribution)/
Director (Transmission)/ Director (Distribution), MoP.

Minutes of the Meeting under the Chairmanship of Secretary (Power) held on 14.07.2021 to discuss the report submitted by the Committee constituted to look into the issues of Sub-transmission system.

A meeting was held under the Chairmanship of Secretary (Power) on 14.07.2021 to discuss the report submitted by the Committee constituted by the Ministry of Power to look into issues of sub-transmission system. List of participants is at **Annex-I**.

2. Initiating the discussion, Joint Secretary (Transmission), MoP stated that a Committee under the Chairmanship of CMD, POWERGRID, was constituted by the Ministry to suggest measures for reduction of losses in the sub-transmission system & for ensuring reliability and efficient performance; and to make recommendation for promoting capital and technological investment in sub-transmission system. He added that the Committee had submitted its report to the Ministry. He requested CMD, POWERGRID to make the presentation on the reports of Committee.

3. CMD, POWERGRID made a presentation on the Report. The copy of the Presentation is at **Annex II**. During the presentation, following points were highlighted:

- a) The committee comprised of representatives of CEA, CTU and STUs of Haryana, Odisha and Maharashtra
- b) The report was prepared based on the information collected from 25 STUs and 30 DISCOMS on the performance of the utilities at different voltage level (33 kV, 66 kV, 132/110 kV and 220 kV)
- c) Losses at 33 kV is about 4.8%, while that in 66-220 kV level is 1.72-2.39%
- d) Yearly availability at 33 kV is about 96.3%, while that in 66-220 kV level is 98.5-99.4%

4. Chief Operating Officer (COO), CTU India Ltd and Member Secretary of the Committee explained the recommendations of the Committee as under:

- a) **Recommendation-1** highlights adoption of various Technical Measures for improvement in the sub-transmission which, among others, include robust planning, re-conducting of old lines, application of smart grid technologies, centralized control Centres and Cyber Security etc.
- b) **Recommendation-2** focuses on redefining of 33kV network as Sub-transmission system etc. Under this recommendation, 3 alternatives have been proposed:
 - i. **Alternative 1:** The 33kV network may be classified as sub-transmission system and the planning, development, O&M of 33kV network may be carried out by STUs.
 - ii. **Alternative 2:** Distribution utilities may consider various performance improvement measures in coordination with the STU of the State. Capacity building of DISCOMS in the field of planning, operation and maintenance etc. may be carried out by respective STU.
 - iii. **Alternative 3:** STU may consider establishment of 66kV network to meet long term power transfer requirement instead of expansion of 33kV network by DISCOMS especially in geographically spread of pocket of load concentration in the range of 40MW to 50MW. The heavily loaded 33kV substations may be upgraded to modernized 66kV sub-stations and gradually the 33kV network may be converted into 66 kV level.

- c) **Recommendation 3** is a mix of technological investment and capital promotion measures such as optimal utilization of sub-station land, monetization of transmission and sub-transmission assets, O&M service concession agreement, sharing of sub-transmission assets
 - d) The Committee had estimated that an incremental annual revenue of more than Rs. 7865 crores (Rs 4495 cr on account of loss reduction and Rs 3370 cr from outage reduction) can be achieved by better upkeep of 33kV network.
5. MD, Haryana Vidyut Prasaran Nigam Ltd pointed out that in case 33 kV system is taken over by STU, there would be Human Resource and Debt related issues.
6. The Chair appreciated the work done by the Committee for preparing such an insightful report. He made following comments/suggestions:
 - a) Improvement in the reliability of the power supply and loss reduction in power sector are the two-key objectives of whole power sector reform agenda. Both these goal can be significantly achieved by improving the performance and infusion of adequate capital and new technology at the level of 33kv of power System.
 - b) With better 33 kV system, there is possibility of reducing technical losses by about 2.5% in 33 kV levels from present 4.8% and this loss reduction would entail significant monetary saving for the ailing Distribution companies. One percentage loss reduction translates into saving of several thousand crores in the country.
 - c) With the new initiatives taken by the Central Govt like Revamped Distribution Schemes, Distribution Companies (DISCOMs) would receive financial assistance for improvement of sub-transmission and distribution scheme. Keeping in view the organizational focus and resource constraint faced by DISCOMs, it is most likely that more investment would be made in the semi-urban and rural areas and there could be under investment in High load Urban areas. Therefore, in order to improve the performance of 33 kV system, following hybrid model can be considered:
 - i. Wherever State Govt. is willing, 33 kV system in high load concentration areas can be taken over by STUs from DISCOMS and STU can plan, develop and maintain the 33 kV system
 - ii. Wherever State Govt is not willing, then DISCOMs can open a separate subsidiary for 33 kV system. For this separate subsidiary, DISCOMs can form Joint Venture with CPSUs under Ministry of Power for mobilising financial resources.
7. ED, Maharashtra State Electricity Transmission Company Ltd stated that benchmarking of normative technical losses at different voltage levels should be done to ascertain financial saving through loss reduction at 33 kV level
8. Member (Power System), CEA stated that a number of 11 kV lines were overloaded and also contributing to losses. He pointed out that 132/11 kV transformation was available, and wherever possible, 132 kV line can be extended to nearest 11 kV load points, thus obviating the need for having 33 kV system.
9. After deliberations, the Committee was requested to consider the suggestions given in this meeting and to submit final Report within a week's time.

10. The meeting ended with thanks to the Chair.

F.No. 15/1/2021-Trans-

Annex I

Date/time of the meeting: 14.07.2021 at 12:30 PM

Sub: Meeting to to discuss the Report submitted by the Committee constituted to look into the issue of Sub-transmission system.

List of Participants

Ministry of Power

1. Shri Alok Kumar, Secretary (Power) -- In the Chair
2. Shri Vivek Kumar Dewangan, Additional Secretary (Trans)
3. Shri Mritunjay Kumar Narayan, Joint Secretary (Transmission)
4. Shri Tanmay Kumar, Joint Secretary (Distribution)
5. Shri Goutam Ghosh, Director (Trans)
6. Shri Vishal Kapoor, Director (IT)
7. Shri Bihari Lal, Under Secretary (Trans)

Central Electricity Authority (CEA)

1. Shri B.K. Arya, Member (GOD)
2. Shri Goutam Roy, Member (PS)
3. Shri Ishan Sharan, Chief Engineer (PSPA-I)
4. Shri Vivek Goel, Chief Engineer (Distribution Planning & Technology)
5. Ms. Vandana Singhal, Chief Engineer (Distribution Policy & Regulations)

Power Grid Corporation India Limited (PGCIL)/ CTUIL

1. Shri K. Sreekant, CMD
2. Shri Subir Sen, COO (CTU)
3. Shri Ashok Pal, CM, CTU

Representative from State Govt.

1. Shri B B Mehta SLDC Odisha
2. Shri Arvind Bhadikar (ED Dist-II) MSEDCL
3. Shri T.L. Satyaprakash, MD HVPN