



सत्यमेव जयते

**GOVERNMENT OF INDIA**

**MINISTRY OF POWER**

**Eastern Regional Power Committee**

**ADDITIONAL AGENDA**

**FOR**

**51<sup>st</sup> TCC MEETING OF**

**ERPC**

**Date: 11.01.2024**

**Time: 10:30 Hrs**

**ON MS TEAMS ONLINE PLATFORM**

## **ADDITIONAL AGENDA FOR 51<sup>st</sup> TCC MEETING**

### **2.1 Intimation regarding final executed quantity for the OPGW links for the Projects under POWERGRID (ER-I portion)- Powergrid**

Based on actual execution, following are the final quantity of the OPGW links for Projects under POWERGRID (ER-I portion):

#### **A. 'Strengthening of OPGW network within the ER Grid and connectivity with other regions':**

<b>No.</b>	<b>Name of OPGW link</b>	<b>Length Approved in 42nd ERPC (Km)</b>	<b>Final Executed Route Length (Km)</b>	<b>Remarks</b>
1	765 KV S/C Gaya-Varanasi Ckt-II	265	310.186	Work executed as per actual length at site. Length increased due to laying of OPGW for connectivity of repeater at Sasaram
2	400 KV D/C Patna-Balia Line-I	195	180.45	Work executed as per actual length at site.
3	220 KV Daltanganj (JUSNL)-Latehar (JUSNL) LILO (D/C) at Daltanganj (PG)	90	67.058	Work executed as per actual length at site.
4	220 KV Jodda (OPTCL) – Ramchandrapur (JH) S/C	130	108.030	Work executed as per actual length at site.
5	220 KV Chandil (JH) – Ranchi (PG) (up to LILO point) D/C	90	83.363	Work executed as per actual length at site.

#### **B. 'Upgradation of SCADA/RTUS/SAS in Central Sector Stations and Strengthening of OPGW Network in Eastern Region':**

<b>Sr. No.</b>	<b>Name of OPGW link</b>	<b>Length Approved in 37th &amp; 39th ERPC (Km)</b>	<b>Final Executed Route Length (Km)</b>	<b>Remarks</b>
1	BRBCL Nabinagar-Sasaram	81.65	81.394	Work executed as per actual length at site.
2	Biharsharif-Sasaram	193	199.75	Work executed as per actual length at site.

3	Biharsharif-Kahalgaon	202	233.234	Work executed as per actual length at site. Length increased due to laying of OPGW at LILO at Lakhisarai section
4	LILO portion of Biharsharif-Balia at Ara (48F)	12	10.192	Work executed as per actual length at site.

**POWERGRID ER-I may update. TCC may deliberate.**

## 2.2 Modification in Scope of Project- “Establishment of State-of-the-Art Unified Centralized Network Management System U-NMS for ISTS and State Utility Communication Network in Eastern Region” on account of deletion of Sikkim SLDC Remote Console- Powergrid

Project for “Establishment of State-of-the-Art Unified Centralized Network Management System U-NMS for ISTS and State Utility Communication Network in Eastern Region” was approved in 43rd ERPC Meeting to be implemented by POWERGRID (Copy of relevant pages of Minutes of Meeting is enclosed as **Annexure-B.27.1**). Accordingly, contract was awarded by POWERGRID in June 2022 with completion schedule of January 2024. Presently, Main Data/Control Centre has been completed at Kolkata and Backup Control/Data Centre at Patna with installation and commissioning work also being completed at SLDCs of WBSETCL, DVC, BSPTCL, JUSNL, OPTCL. However, due to non-availability of space at Sikkim SLDC, the Remote Console along with furniture to be supplied under Sikkim has to be deleted. In this regard, correspondence with Sikkim SLDC is enclosed as **Annexure-B.27.2**.

**POWERGRID may update. TCC may deliberate.**

## 2.3 Issues related to OPGW installation in 132 kV Rangpo - Chuzachen Line- Powergrid

Power Grid had been entrusted with establishing Fiber Optic network (OPGW) over 132 kV Rangpo - Chuzachen TL of EPDS, Sikkim under Eastern Region Fibre Optic Expansion Project (Additional Requirement) for smooth communication of Chuzachen HEP power generating station to Regional Load Dispatch Centre (ERLDC) at Kolkata. The ownership of said transmission line 132 kV Rangpo - Chuzachen TL belongs to Energy & Power Dept., Govt of Sikkim.

After completing 19.327 km OPGW installation, work was again stopped in Padamchay village due to public complaint over induction problem faced between tower no. 35 and 36 of 132 kV Rangpo-Chuzachen TL due to very ground low clearance issue. Matter was taken up in 49th ERPC meeting where in Energy & Power Department, Govt. Of Sikkim was requested to resolve the issue. (Copy of relevant pages of Minutes of Meeting is enclosed as **Annexure-**

**B.28.1).** Further, POWERGRID had also requested intervention by Senior authority of Energy & Power Department, Govt. Of Sikkim vide letter dated 27th June 2023 to urgently resolve the issue, however same is pending till date. (Copy of letter correspondence is enclosed as **Annexure-B.28.2**). In this regard, ERPC forum may please guide to resolve the issue since due to afore mentioned ROW issue, Rangpo – Chuzachen OPGW link is pending since long time leading to delay and cost overrun.

**POWERGRID may explain. TCC may deliberate.**

#### **2.4 Settlement of Energy Accounting of Bhutan for the months of November 2023 and December 2023- ERPC**

As per the inter-governmental agreement between India and Bhutan, the surplus energy from Tala, Chukha, Kurichu and Mangdechu hydro generators in Bhutan is exported to India and the settlement of the same is done on a monthly basis through the REA Bhutan account published by ERPC taking in to account the actual meter data.

For the month of November 2023, there is a net drawl of 59.752 MU of energy by Bhutan from the Indian Grid for which prior approval from the designated authority had not been obtained. In absence of any provision under the current agreement for commercial settlement of accounts in case of net drawl of power by Bhutan, the Energy Account for the month of November 2023 was not published by ERPC and necessary direction in this regard was sought from CEA vide letter dated 22.12.2023.

During December 2023, Bhutan injected only 4.7625 MU from MHEP. Bhutan vide letter No. DGPC/DGET/MHP/PTC/2024/34 dated 5th January 2024 (**Annexure B.29**) has submitted that any export from Bhutan in the month of December 2023 and ahead will be first adjusted with the import from Indian Grid made during the month of November 2023. Accordingly, an export of 4.7625 MU of energy from MHEP for the month of December 2023 has been adjusted against the import of 59.75226 MU of energy in the month of November 2023. The net energy of 54.98976 MU is to be adjusted in the subsequent months as per DGPC. Communication regarding the same has already been sent to CEA via mail dated 09.01.2024.

**Bhutan may update. TCC may discuss.**

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In 168th OCC meeting, Powergrid informed that the matter regarding testing & calibration and time drifting has been taken up with concerned vendors involved in testing and calibration. Powergrid also informed that the vendors are ready for doing the testing however they are not ready to correct time drifting as it is only possible through OEM i.e. L&T. The matter has also been taken up with OEM (M/s L&T), who have confirmed that the heavily time drifted meter shall require to be sent to factory for time correction. Powergrid informed in 168th OCC meeting that time correction of old meters is not possible. Powergrid further added that testing and calibration of old SEMs would cost around Rs 9000 / unit whereas cost of new SEM would be around Rs 12000/ unit.

In 168th OCC meeting, it was decided that since time correction is not possible it would be better to buy new SEMs instead of going for calibration & testing also advised ERLDC to place the requirement of SEMs in next OCC meeting. Accordingly, ERLDC proposed to procure 300 energy meters and the details of the same is already shared in 42nd TCC meeting.

In 169<sup>th</sup> OCC, Powergrid informed that they have already placed the order for 300 energy meters as a repeat order. ERLDC also informed that all the energy meters will be consumed in 2020-21 and there would be a requirement of additional 300 energy meters approximately to replace the old and time drifted SEMs. Powergrid added that still there is a scope to place the repeat order for 180 SEMs in the existing contract. OCC advised Powergrid to process for purchase of 180 SEMs under the existing contract and recommended that post facto approval of the same may be taken in the next CCM/ERPC meeting.

In 43rd CCM, Commercial Sub-Committee members agreed in principle to the proposal for procurement of additional 120 SEMs as per requirement.

In 177<sup>th</sup> OCC Powergrid informed that they have already awarded contract for procurement of additional 300 SEMs as per terms and condition of existing contract in Jan'2021 and delivery for the same is expected by August'2021.

#### **Deliberation in the TCC meeting**

POWERGRID informed that they had already awarded contract for procurement of additional 300 SEMs as per terms and condition of existing contract in Jan'2021 and delivery for the same is expected within 6 months.

TCC accorded post facto approval for procurement of 300 nos. of SEMs and referred it to ERPC for final concurrence. The estimated cost for the same would be Rs. 36 Lakhs.

#### **Deliberation in the ERPC meeting**

*ERPC accorded approval for procurement of 300 nos. of SEMs at an estimated cost of Rs. 36 Lakhs.*

ITEM NO. A.5:	Establishment of State-of-the-Art Unified Centralized Network Management System U-NMS for ISTS and State Utility
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	<b>Communication Network in Eastern Region</b>
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CERC notified Communication Regulation which envisages Centralized Supervision System for ISTS Communication.

As per the regulation clause no 7.2 (vii):

*“CTU shall be the Nodal Agency for supervision of communication system in respect of inter-State communication system and will implement centralized supervision for quick fault detection and restoration.”*

The issue was discussed in 24th SCADA O&M Meeting held at ERLDC on 14th August 2019, wherein Member Secretary, ERPC informed that a Committee is required to be formed for the assessment of technical requirements to facilitate monitoring of ISTS communication network in line with CERC regulation.

Accordingly, a Committee was formed and the Committee met on 24th October 2019 at ERLDC, wherein POWERGRID made a detailed presentation on Unified Network Management System (U-NMS) Project to be implemented for managing Project for ISTS & State utilities communication network at State, Regional & National level.

Members discussed the technical aspects of U-NMS proposal and generally found it is feasible technically for the U-NMS proposal. All Constituents have given their consent for implementation of U-NMS Project for Central Sector as well as for the State Sector/Constituents.

POWERGRID informed that the estimated cost for Eastern Region ISTS and state network U-NMS is **Rs. 99.93 Crs excluding AMC cost which is estimated as Rs. 2.6 Crs for 6 years after warrantee period.** U-NMS Project implementation Schedule is considered as 24 months. Investment made by POWERGRID is proposed to be recovered through tariff as notified by CERC. Also it has been deliberated and agreed upon that AMC for U-NMS shall be carried out by POWERGRID itself for Central as well as State sector.

This issue was further deliberated in the 2<sup>nd</sup> TeST meeting held on 26.11.2019 at ERPC Kolkata.

In 42<sup>nd</sup> ERPC Meeting, ERPC accorded in principle approval for go ahead to Powergrid to undertake the UNMS Projects for the Eastern Region subject to the following conditions:

1. PGCIL shall hold separate discussion with each state of ER to understand the NMS system in the respective states if any already existing within the state and to assess the integration requirement including the cost thereof for each state.
2. The details are to be placed by PGCIL in the TeST meeting scheduled to be held in January 2020.
3. After finalization of the scheme the revised cost shall be placed by PGCIL in the next TCC meeting.

In 3<sup>rd</sup> TeST meeting, ERPC Secretariat advised all constituents to provide the data in the format given by POWERGRID for implementation of UNMS System at respective constituents.

In 4<sup>th</sup> TeST meeting, POWERGRID submitted that cost of implementation of UNMS in state sector as per data provided by constituents estimated as below:

- 1) Regional U-NMS: ₹ 97.93 crores
- 2) State sector U-NMS: ₹ 2 crores with breakup as below:
  - a) DVC: ₹ 0.40 crores
  - b) BSPTCL: ₹ 0.40 crores
  - c) WBSETCL: ₹ 0.40 crores
  - d) OPTCL: ₹ 0.40 crores
  - e) JUSNL: ₹ 0.40 crores

The above cost is based on the data provided by constituents, the details of NMS & NEs to be integrated in each constituent.

In 4<sup>th</sup> TeST meeting, MS, ERPC advised POWERGRID to provide the cost sharing for Central Sector portion.

Thereafter, POWERGRID intimated the total estimated cost for UNMS Project for Central sector portion is Rs. 97.93 Crs. which is proposed to be apportioned between the constituents in PoC mechanism.

In 5<sup>th</sup> TeST meeting held on 24.02.2020, all constituents agreed to implement the UNMS system within the state along with the Central Sector UNMS project with a cost estimate as follows:

- 1) Regional U-NMS: ₹ 97.93 crores
- 2) State sector U-NMS: ₹ 2 crores

TeST committee noted the cost involvement by each constituent and referred to Commercial Committee Meeting for approval.

In 42<sup>nd</sup> CCM, POWERGRID submitted the cost estimate for regional component of U-NMS is ₹ 97.93 crores and the State sector component of U-NMS is ₹ 2 crores.

Commercial Sub-Committee, in principle, approved the cost break up of UNMS project as submitted by POWERGRID and referred the issue to TCC.

The Cost of Regional U-NMS component i.e. ₹ 97.93 Crs. shall be recovered through tariff as per as per the existing CERC (Sharing of ISTS charges and losses) Regulations, 2020.

Subsequently, Powergrid has updated that estimated cost of AMC is Rs. 5.63 Cr per annum for 7 years against Rs. 2.6 Crs for 6 years after Warrantee period estimated earlier. AMC cost have provision of annual cyber security audit, 24x7 manning for managing the system and availability of engineers from contractor on round the clock basis.

### **Deliberation in the TCC meeting**

POWERGRID clarified that previous estimation of Rs. 2.6 Crs. was per annum basis and the same was estimated based on their Telecom support contract. The proposed AMC cost has been



increased to Rs. 5.63 Cr per annum due to additional provision of annual cyber security audit, 24x7 manning for managing the system (in MCC as well as BCC) and availability of engineers from contractor on round the clock basis. POWERGRID further informed that the above price is for 1 yr. of warranty period and 6 yrs of AMC.

GRIDCO impressed that the features and facilities of UNMS of State Sector shall be at par with that of Central Sector.

Further on query POWERGRID clarified that the above UNMS project would be implemented exclusively for ULDC network.

POWERGRID also proposed that since the cost for State Sector UNMS is meager the same may be merged with the cost of Regional U-NMS.

TCC recommended for approval for following proposals:

- 1) Regional U-NMS (Including State sector U-NMS) with a cost of ₹ 99.93 Cr.
- 2) AMC of UNMS with a cost of Rs. 5.63 Cr per annum for 7 years (1 yr. of warranty period and 6 yrs beyond warranty period)

TCC referred it to ERPC for financial concurrence.

#### **Deliberation in the ERPC meeting**

*ERPC approved the above proposal of U-NMS for Eastern Region along with its cost implication as per the recommendation of TCC.*

<b>ITEM NO. A.6:</b>	<b>Revision of DSM accounts of GRIDCO from 04.05.2016 to 02.12.2018, due to erroneous less Energy reported at Bolangir (PGCIL) end SEM of 220kV Bolangir (PG)-Katapalli line (OPTCL).</b>
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Bolangir (PGCIL) end SEM of 220kV Bolangir (PG) –Katapalli line (OPTCL) tie line was reporting erroneous energy as compared to Katapalli (OPTCL) end SEM bearing meter no NP-7561A from 04.05.2016 to 02.12.2018. Being a tie line, SEM at Bolangir (PG) is used for energy calculation at ERPC, Kolkata. There is a huge difference of energy data of both end meters and the net energy difference is calculated to be 97281.8 MWH for the period from 04.05.2016 to 02.12.2018. The net energy comparison sheet of both side SEM data for all the above weeks and 15 minutes energy data of Katapalli (OPTCL) end SEM for the period has been attached.

Further, SEMs at ICT end at Bolangir (PGCIL) have been considered for energy accounting at ERPC, Kolkata from 02.12.2018 onwards and above energy data was rectified after engagement of the above ICTs SEM at Bolangir PGCIL.

In 40<sup>th</sup>CCM, it was pointed out that GRIDCO/OPTCL should have been vigilant enough to bring this issue to the notice of ERPC/ERLDC when it started occurring. However, after a lapse of a period of about 2.5 years the metering issue is reported to have been resolved.



**Kick Off Meeting with M/s NMSWorks Software Private Limited for implementation of ER U-NMS project**

Kashif Bakht Muhammad Nabi {काशिफ बख्त मुहम्मद नबी} <kashifbakht@powergrid.in>

Sat 11/19/2022 1:35 AM

To: namgyaltashi26@gmail.com <namgyaltashi26@gmail.com>

Cc: lepchawongchuk@gmail.com <lepchawongchuk@gmail.com>; Anjan Kumar Das (अंजन कुमार दास) <anjandas@powergrid.in>

Dear Sir

Your good self may kindly be aware that Implementation of Unified Network Management System (UNMS) in Eastern Region for ULDC network had been approved in 43rd ERPC Meeting. As per the CERC notified Communication Regulation, the Centralized Supervision System for ISTS Communication is necessary for quick fault detection and restoration. The project covers the AMC along with additional provision of annual cyber security audit, 24x7 manning for managing the system and availability of engineers from contractor on round the clock basis.

In this regard, this to inform you that implementation of the ER-UNMS Project has been awarded to M/s NMSWorks Software Pvt. Ltd., Chennai. Myself along with the party (M/s NMSworks) had visited your good office on 01/11/2022 for kick off meeting of the said project and to get an overview of Sikkim ULDC network.

During our visit, the party had requested to provide the list of NE (SDH and PDH) connected with the existing EMS/NMS along with their version and location with list of equipment's connected at each of the location for creation of database for software to be deployed. The details of standalone NE (if any) was also sought which needs to be integrated with U-NMS. However, it was gathered that the six no.s (6) Huawei NEs existing in Sikkim ULDC need not be integrated with the ER-UNMS.

Therefore it is requested to kindly confirm the same and provide requisite data as and when NEs are to be integrated with the ER-UNMS Project.

Mr. Mainak Bose (9650412667) shall be the co-ordinator for this project on behalf of NMSWorks.

With Regards

काशिफ नबी / Kashif Nabi

उप प्रबंधक / Deputy Manager

**ULDC/RHQ-Kolkata (ER-II)**

Contact No. 7595096328





**पावरग्रिड**  
**POWERGRID**

पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)

**POWER GRID CORPORATION OF INDIA LIMITED**  
(A Government of India Enterprise)

Ref: ER-II/KOL/ULDC/Projects/U-NMS/ / 217

Date: 11.05.2023

To  
**The Chief Engineer (SLDC)**  
Energy & Power Dept.,  
Govt. Of Sikkim,  
8JG7+99R, Kazi Rd, Vishal Gaon,  
Gangtok, Sikkim 737101

**Sub: Implementation of U-NMS in Eastern Region -Issues pertaining to Sikkim Sector**

Dear Sir

This has reference to the project- "Implementation of Unified Network Management System (U-NMS) for ISTS and State Utility Communication Network in Eastern Region" which was accorded approval in 43<sup>rd</sup> ERPC Meeting. In this regard, a kick-off meeting was held with officials from Energy & Power Dept., Govt. Of Sikkim on 01/11/2022 to get an overview of the existing and upcoming communication network for Sikkim.

In the said meeting, it was deliberated to provide list of NE & NMS/EMS which needs to be integrated with the U-NMS project, however, the same are yet to be received from Sikkim Powe Deptt.

Further, it was also explained in the meeting that as per provision of the contract, Remote Console along with furniture, etc., shall be provided as part of physical infrastructure for monitoring of communication network for all constituents in Eastern Region including Sikkim for which space allocation is required.

In view of above, we request you to kindly identify and allocate space of approximately 6m X 4m for housing server racks (02 no.s), Dual (02 no.s) and Single Monitors (01 no.) and associated furniture.

In this regard, it is to state that the Remote Console along with furniture assets are in pipeline of getting delivered at site by Jul'2023. Therefore, early action in this regard shall be highly appreciated for execution of project as per scheduled completion period i.e. by January 2024.

Thanking you.

**Enclosure:**

(i). Copy of Letter email regarding Kick Off Meeting

Copy to: For kind information please

1. Member Secretary, ERPC
2. Executive Director, ER-II
3. CGM, GA & C, CC, Gurugram
4. CGM (AM), ER-II, Kolkata

Yours faithfully

(Anjan Kumar Das)

General Manager (ULDC, ER-II)

*12.5.23*  
*(Power Deptt)*





पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
POWER GRID CORPORATION OF INDIA LIMITED  
(A Government of India Enterprise)

Ref: ER-II/KOL/ULDC/Projects/U-NMS/441/442

Date: 27.06.2023

To  
The Chief Engineer (SLDC)  
Energy & Power Dept.,  
Govt. Of Sikkim,  
8JG7+99R, Kazi Rd, Vishal Gaon,  
Gangtok, Sikkim 737101

Sub: Implementation of U-NMS in Eastern Region -Issues pertaining to Sikkim Sector

Ref. Our Letter dated 11.05.2023.

Dear Sir

This has reference to our letter dated 11.05.2023 regarding requirement of space for installation of Remote Console to be supplied and installed under the project- "Implementation of Unified Network Management System (U-NMS) for ISTS and State Utility Communication Network in Eastern Region".

In this regard, please note that the scheduled completion period of the project is by January 2024. Further, it is to be noted that as per new CERC regulations maintaining of Communication system availability shall be linked with tariff. The proposed U-NMS project covers this aspect along with many other features that shall be helpful in reducing multi-vendor dependency on communication equipment.

Moreover, the ER U-NMS project was approved unanimously in the 43<sup>rd</sup> ERPC Meeting to be implemented by POWERGRID through RTM basis as per earlier ULDC schemes.

Therefore, it is requested to extend support in implementation of the project and help in making it a grand success so that the purpose of 24X7 monitoring and management of communication systems may be ensured.

Thanking you,

Yours faithfully

Enclosure:

(i). Copy of Our Letter dated 11.05.2023

(Anjan Kumar Das)  
General Manager (ULDC, ER-II)

Copy to: For kind information please

1. Member Secretary, ERPC
2. Executive Director, ER-II
3. CGM, GA & C, CC, Gurugram
4. CGM (AM), ER-II, Kolkata

Eastern Region -II, RHQ Kolkata, CF-17, Street Number 240, Action Area 1C, Newtown, Kolkata-700156

दूरभाष /Tel: +91 9434740029, ईमेल / Email: anjandas@powergrid.in

केन्द्रीय कार्यालय: "सौदामिनी", प्लॉट नंबर 2, सेक्टर-29, गुरुग्राम-122001, (हरियाणा) दूरभाष: 0124-2571700-719

Corporate Office: "Saudamini", Plot No. 2, Sector-29, Gurugram-122001, (Haryana) Tel: 0124-2571700-719

पंजीकृत कार्यालय: वी-9, कुतुब ईस्टीट्यूशनल एरिया, कटरवारा सराय, नई दिल्ली-110 016. दूरभाष: 011-26560112, 26560121, 26564812, 26564892, CIN: L40101DL1989GOI038121

Registered Office: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110 016. Tel: 011-26560112, 26560121, 26564812, 26564892. CIN: L40101DL1989GOI038121

Website: www.powergridindia.com





पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
POWER GRID CORPORATION OF INDIA LIMITED  
(A Government of India Enterprise)

Ref No- ER-II/KOL/ULDC/U-NMS/F-55 / 417

Dated: 22.06.2023

To  
The Chief Engineer (SLDC)  
Energy & Power Department  
Government Of Sikkim  
8JG7+ 99R, Kazi Road, Vishal Gaon  
Gangtok-737101

**Subject: Invitation for witnessing FAT of U-NMS project in Eastern Region**

Dear Sir

Your good self may kindly be aware that POWERGRID is implementing Unified Network Management System (U-NMS) in Eastern Region for ULDC network of both Central and State sector as per approval in 43<sup>rd</sup> ERPC Meeting. As per the CERC notified Communication Regulation, the Centralized Supervision System for ISTS Communication is necessary for quick fault detection and restoration. The project covers the AMC along with provision of annual cyber security audit.

In this regard, this to inform you that Integrated Factory Acceptance Test (FAT) under U-NMS project is scheduled to be held from 10<sup>th</sup> July 2023 till 19<sup>th</sup> July 2023 at NMSWorks laboratory situated at IIT Madras Research Park, Chennai. Therefore, we wish to cordially invite you to witness the FAT under proposed U-NMS project for Eastern Region. The detailed FAT schedule is enclosed herewith as Annexure-I.

Therefore, it is requested to kindly nominate 1 or 2 representatives from your organization in order to witness the said FAT.

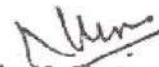
Your kind cooperation in this regard is highly solicited.

Thanking you,

Enclosure:

- (i). Email Intimation dtd. 02/06/2023 for witnessing FAT for U-NMS
- (ii). Annexure-I

With Regards,

  
(Nitin K. Shrivastava)  
Chief General Manager (AM)  
POWERGRID, ERTS-II

Eastern Region -II, RHQ Kolkata, CF-17, Street Number 240, Action Area 1C, Newtown, Kolkata-700156

दूरभाष / Tel: +91 9438907514, ईमेल / Email: [nkshrivastava@powergrid.in](mailto:nkshrivastava@powergrid.in)  
केन्द्रीय कार्यालय: "सौदागिनी", प्लॉट नंबर 2, सेक्टर-29, गुरुग्राम-122001 (हरियाणा) दूरभाष: 0124-2571700-719  
Corporate Office: "Saudagini", Plot No. 2, Sector 29, Gurugram-122001 (Haryana) Phone: 0124-2571700-719

- d. They will also take up the matter with CERC and would give their input to draft IEGC for bringing more clarity in regulations on IEM installation charges & its recovery. CTUIL also requested RPC forum to take up with CEA & CERC for necessary amendments in metering regulations for IEM installation charges & its recovery.
3. TCC opined that the submissions by CTUIL need further deliberation.
4. However, clarification regarding the man-day rates to be charged to various utilities for installation of Interface Energy Meters by Powergrid on behalf of CTUIL may be obtained from appropriate authority. After getting the necessary clarification, the charges for installation of SEMs would be reimbursed to Powergrid.
5. TCC was of the view that existing practice of SEMs installation in Eastern Region may be continued by Powergrid without any installation charges w.e.f 01.04.2023.

TCC referred the issue to ERPC for further deliberation/guidance.

ERPC may guide.

#### **Deliberation in the 49<sup>th</sup> ERPC Meeting:**

*The following deliberation took place in the meeting:*

1. *Representative of Powergrid informed that SEMs installation by Powergrid on behalf of CTUIL would be on chargeable basis. He further added that as replacement/installation of IEMs is crucial for Grid operation point of view, either Powergrid can install the meter on behalf of CTUIL on chargeable basis or the utilities can themselves install the meter after collecting the same from Powergrid.*
2. *Representative of NTPC submitted that if the utilities install the meters by themselves, certification either by Powergrid or CTU is necessary after the installation of SEMs at the premises of the utilities.*
3. *SE(Commercial), ERPC Secretariat stressed upon the fact that early installation of IEMs is very crucial in order to avoid any discrepancies in commercial accounting in case any of the main/standby/check meters fails.*

*After detailed deliberation ERPC opined that:*

1. *The submissions made by CTUIL in TCC and suggestions of Powergrid need further deliberation in Sub-Committees of ERPC.*
2. *In the meantime, CTU may approach appropriate authority (CERC/CEA) seeking clear guidelines regarding installation charges of IEMs.*
3. *Till any clear guidelines from Appropriate Authority come or any decision arrives at ERPC fora, utilities may approach Powergrid for installation of IEMs.*

#### **B1.9 Issues related to OPGW installation in 132 kV Rangpo - Chuzachen Line**

Power Grid had been entrusted with establishing Fiber Optic network (OPGW) over 132 kV Rangpo - Chuzachen TL of EPDS, Sikkim under Eastern Region Fibre Optic Expansion Project



- d. They will also take up the matter with CERC and would give their input to draft IEGC for bringing more clarity in regulations on IEM installation charges & its recovery. CTUIL also requested RPC forum to take up with CEA & CERC for necessary amendments in metering regulations for IEM installation charges & its recovery.
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4. However, clarification regarding the man-day rates to be charged to various utilities for installation of Interface Energy Meters by Powergrid on behalf of CTUIL may be obtained from appropriate authority. After getting the necessary clarification, the charges for installation of SEMs would be reimbursed to Powergrid.
5. TCC was of the view that existing practice of SEMs installation in Eastern Region may be continued by Powergrid without any installation charges w.e.f 01.04.2023.

TCC referred the issue to ERPC for further deliberation/guidance.

ERPC may guide.

#### **Deliberation in the 49<sup>th</sup> ERPC Meeting:**

*The following deliberation took place in the meeting:*

1. *Representative of Powergrid informed that SEMs installation by Powergrid on behalf of CTUIL would be on chargeable basis. He further added that as replacement/installation of IEMs is crucial for Grid operation point of view, either Powergrid can install the meter on behalf of CTUIL on chargeable basis or the utilities can themselves install the meter after collecting the same from Powergrid.*
2. *Representative of NTPC submitted that if the utilities install the meters by themselves, certification either by Powergrid or CTU is necessary after the installation of SEMs at the premises of the utilities.*
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(Additional Requirement) for smooth communication of Chuzachen HEP power generating station to Regional Load Dispatch Centre (ERLDC) at Kolkata. The ownership of said transmission line 132 kV Rangpo - Chuzachen TL belongs to Energy & Power Dept., Govt of Sikkim. Out of 20.727 km of scope of work, Fiber Optic Installation of 17.912 km had been completed till April 2020 after which work had been stopped by villagers of village Kamarey Bhasmey, Pendam, East Sikkim. The ROW details in between T.no. 37 to 42 falling under Kamarey village is tabulated below.

List of Agitating Landowners in Kamarey village with details:

S.No	Name & Contact of Landowner	Location No. details
1	Name: Ashok chettri S/o L.t. shiva lall chettri Contact.No: 9593223955	Village kamarey PW PO & PS - Rangpo, Pendam East Sikkim-737132
2	Name: Nandu kumarpradhan Contact.No: 9635686942	
3	Name: kumar chetari Contact.no: 9635664370	
4	Name: Mani Kr. Pradhan	
5	Name: Mangal Singh S/o Singh Bir Tamang	
6	Name: Tularam Sharma S/o Gauri Shankar	
7	Name: Dili Ram S/o Lt. Pushpa Lall Khatiwara	
8	Name: Dhan Maya W/o Chandra Bahadur Tamang	
9	Name: Bharat Laxuman	
10	Name: Dhiraj Sharma S/o Tika Ram Sharma	

After multiple meeting with District Authorities and local villagers of Kamarey, work finally resumed in January 2023 with help and support of Energy & Power Dept., Govt of Sikkim. After completing 19.327 km OPGW installation, work was again stopped in Padamchay village due to public complaint over induction problem faced between tower no. 35 and 36 of 132 kV Rangpo-Chuzachen TL due to very ground low clearance issue. The list of agitating landowner in Padamchay village is tabulated below.

## List of Agitating Landowners in Padamchay village with details

I.No.	ROW Person details	ROW Issue
1.	Bishnu Lall Sharma	Low ground clearance from conductors in between T.no. 35 and 36 of 132 kV Rangpo-Chuzachen TL.
2.	Punya Pd. Sharma	
3.	Bharat Kumar Sharma	
4.	Yogendra Sharma	
5.	Ram Pd. Sharma	
6.	Gyan Pd. Sharma	

The matter was informed to Energy & Power Dept., Govt of Sikkim. The Officials of Energy & Power Dept., Govt of Sikkim held meeting with local landowners and public representatives to resolve the issue. However, matter is yet to be resolved.

In this regard, it is requested that, Energy & Power Dept., Govt of Sikkim (being owner of the line) may provide necessary support for resolving the ROW issue. It may be noted that now only 1.4 km OPGW installation is pending in the said Link.

**Deliberation in the 49<sup>th</sup> TCC Meeting:**

The following deliberations took place:

1. Representative of Powergrid apprised the forum that 19.327km OPGW installation work out of total 20.727km has been completed. However, due to severe RoW issue, 1.4km OPGW installation work is still pending. He further submitted that as the owner of the said line is Energy & Power Dept., Govt of Sikkim, necessary support may be provided by them in resolving the RoW issue.
2. Representative of Sikkim submitted that the OPGW installation work has stopped in Padamchay village due to public complaint over induction problem being faced between tower no. 35 and 36 of 132kV Rangpo-Chuzachen TL due to very low ground clearance.
3. He further added that conductor snapping has also occurred in the same span. Considering the above, rerouting of the line has to be done. DPR regarding the same has also been prepared and put up for approval to Govt. of Sikkim.
4. TCC advised Sikkim to expedite the installation of OPGW after meeting with local landowners and public representatives. Line diversion work, as approved by Govt. of Sikkim, may be taken up subsequently.

TCC referred the issue to ERPC.

ERPC may discuss.

**Deliberation in the 49<sup>th</sup> ERPC Meeting:**

*ERPC advised representative of Sikkim to take up the matter with Govt. of Sikkim and expedite tower diversion as well as OPGW installation work.*





पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
POWER GRID CORPORATION OF INDIA LIMITED  
(A Government of India Enterprise)

Ref No- ER-II/RPO/OPGW/Rpo-Chuzehn / 143/443

Dated: 27.06.2023

To,  
The Secretary (Power)  
Energy & Power Department  
Govt. Of Sikkim

**Subject: Request for resolution of ROW for installation of Fibre Optic link (OPGW) over 132 kV Rangpo-Chuzachen TL at village Padamchay falling under Pakyong district.**

Ref.: (i). Our Letter dated 01/02/2023

Dear Sir,

As you may be kindly be aware, that Power Grid Corporation of India Ltd., (A Govt. of India Maharatna Enterprise under the Ministry of Power) is establishing Fiber Optic network (OPGW) over 132 kV Rangpo-Chuzachen TL for smooth communication between Chuzachen power generating stations, substations, State Load Despatch Centre, Gangtok and RLDC, Kolkata. The ownership of said transmission line 132 kV Rangpo-Chuzachen TL belongs Energy and Power Department, Govt. Of Sikkim.

During execution of work, ROW problem was encountered yet again in January, 2023 while completing Drum No. 04 between Tower No. 35 and 36. Landowners complained that due to very low ground clearance between the said towers, induction related issues were being faced by them. Since POWERGRID is only replacing the existing earth wire with OPGW, therefore we requested the intervention of Energy and Power Department, Govt. Of Sikkim. Accordingly, a meeting was held amongst the villagers, officials from Sikkim Power department and Area MLA on 29/01/2023, wherein landowners agreed to allow completion of OPGW work only upon written assurance by higher officials of Power Department, Govt. Of Sikkim. (Copy of Minutes of Meeting enclosed)

Accordingly, we approached the Power Department, Govt. Of Sikkim vide our letter mentioned under reference for necessary action for completion of balance opgw work, however upon no clarity over the issue our team got demobilized and the work is yet to be completed. Thereafter the issue was discussed in 49<sup>th</sup> ERPC Meeting, wherein ERPC forum advised representative of Sikkim to take up the matter with Govt. of Sikkim and expedite for OPGW installation work by resolving the induction problem. (Copy of relevant pages of 49<sup>th</sup> ERPC MOM is enclosed).

Under the given circumstances, your intervention and support is requested in the above matter which is pending since long time. It is noteworthy to mention here that the said OPGW link has suffered severely since the past and a half years on account of severe ROW in Kamarey village.

Page 2...

पूर्वी क्षेत्रीय - II, उप-केन्द्र: 400/220/132 के.वी., रंगपो जीआईएस सबस्टेशन, ब्लॉक-करेक, गांव-समरदुंग, पीओ-रंगपो, दक्षिण सिक्किम-737132  
Eastern Region -II, Sub-station: 400/220/132KV Rangpo GIS Substation, Block-Karek, Vill- Samardung, PO.-Rangpo, South Sikkim-737132.

दूरभाष /Tel: +91 9434740029, ईमेल / Email: [rajagopal@powergrid.in](mailto:rajagopal@powergrid.in)  
केन्द्रीय कार्यालय: "सौदामिनी", प्लॉट नंबर 2, सेक्टर -29, गुरुग्राम -122001, (हरियाणा) दूरभाष: 0124-2571700-719

पंजीकृत कार्यालय: बी -9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली -110 016 दूरभाष: 011-26560112, 26560121, 26564812, 26564892. CIN: L40101DL1989GOI038121  
Registered Office: B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi-110 016. Tel: 011-26560112, 26560121, 26564812, 26564892. CIN: L40101DL1989GOI038121

Website: [www.powergridindia.com](http://www.powergridindia.com)





पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड  
(भारत सरकार का उद्यम)  
POWER GRID CORPORATION OF INDIA LIMITED  
(A Government of India Enterprise)

(2)

Therefore any further delay shall compromise the Grid security, reliability and smooth operation apart from unnecessary increase in project cost overrun.

Your kind cooperation in this regard is highly solicited.

Thanking you,

Yours faithfully,

  
(Anjan Kr Das)

General Manager, ULDC

Enclosure:

- Copy of Our Letter dated 01/02/2023
- Copy of Minutes of Meeting with Area MLA, Landowners and EPDS, Govt. Of Sikkim
- Copy of relevant pages of 49<sup>th</sup> ERPC MOM

Copy: for kind information, please

- Member Secretary, ERPC, Kolkata
- ED, POWERGRID, ERTS-II
- CGM(AM), POWERGRID, ERTS-II

Dated: 01.02.2025

Ref No FR-H RPO/ELC/Rgp-Chuzachen/OPCW/

To  
The Chief Engineer (EHV Transmission)  
Energy & Power Department  
Govt. Of Sikkim

Subject: Persistent severe ROW during OPGW work at 132 KV Rangpo-Chuzachen  
Line- intimation regarding demobilization of gang

Dear Sir,

As your good self is well aware regarding the severe ROW problem faced by POWERGRID (A Govt. of India Maharatna Enterprise under the Ministry of Power) while establishing fiber optic network (OPGW) over 132 kV Rangpo-Chuzachen TL for smooth communication between power generating stations, substations, State Load Despatch Centre, Gangtok and RDC, Kolkata. The ownership of said transmission line 132 KV Rangpo-Chuzachen TL belongs to Energy & Power Department, Govt. Of Sikkim.

The ROW problem was encountered while attempting OPGW Drum No. 04 when work was halted in Kameray Village in March 2021 and work is pending since then for last 02 years. After lots of persuasion with District Administration, POWERGRID was able to secure favorable orders and work was finally resumed in January 2023 after assurance from Power Dept., Govt. Of Sikkim Officials regarding resolution of ROW issues as recorded in 47<sup>th</sup> TCC Meeting (copy enclosed as Annexure-I).

Now as you are well aware that stiff resistance has been created by landowners near Tower No. 36 due to extremely low ground clearance of conductor which may endanger public life and property. In this regard, a meeting was also held at the residence of Area M.L.A. on 29.01.2023, wherein landowner agreed to allow OPGW work to continue upon written assurance from higher authority of Energy & Power Department, Govt. Of Sikkim regarding construction of additional tower in between tower no. 35 and 36 in order to improve the ground clearance with respect to live conductor. (copy of signed MOM of meeting is enclosed as Annexure-II).

In this regard, we had been continuously following up with officials from Power Dept., Govt. Of Sikkim regarding issuance of such assurance letter which is very much necessary for OPGW work to get completed. As you are well aware that our gang is sitting idle since 24<sup>th</sup> January, 2023 and there has been no progress regarding the aforementioned issue therefore we are forced to withdraw our gang from the site. It is pertinent to mention here that during the last 02 years we had engaged gang on at least 05-06 occasions and failed to complete the Drum No.04 due to persistent ROW issues in the said area. Huge idling charges compensation is being claimed by our vendors and we have suffered financially on account of such repeated and persistent ROW

Continued on Page 2

44 45 46 47 48

१. **भारतीय रिजर्व बैंक** (Reserve Bank of India) - १९४७-४८ में स्थापित।  
 २. **भारतीय रिजर्व बैंक अधिनियम, १९४७** (Reserve Bank of India Act, 1947) - १९४७-४८ में पारित।  
 ३. **भारतीय रिजर्व बैंक अधिनियम, १९४७** (Reserve Bank of India Act, 1947) - १९४७-४८ में पारित।  
 ४. **भारतीय रिजर्व बैंक अधिनियम, १९४७** (Reserve Bank of India Act, 1947) - १९४७-४८ में पारित।  
 ५. **भारतीय रिजर्व बैंक अधिनियम, १९४७** (Reserve Bank of India Act, 1947) - १९४७-४८ में पारित।  
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**POWERGRID**

**पावर ग्रीड कॉर्पोरेशन ऑफ इंडिया लि.**  
**POWER GRID CORPORATION OF INDIA LTD.**  
(A Government of India Enterprise)

(2)

In light of above, we are forced to surrender the OPGW Installation work on Rampran Chuzachen II and this may be considered as our last attempt to complete the final OPGW Drum of mentioned link.

This is for your kind information please. We thank you for your co-operation.

Thanking you,

Yours faithfully,

(Anjan Kr Das)  
 General Manager, ULDC

Enclosure: As Stated Above

Copy: for kind information, please

1. Member Secretary, ERPC, Kolkata
2. Executive Director, POWERGRID, ERTS-II
3. CGM(AM), POWERGRID, ERTS-II



Minutes of Meeting

Date: 29/01/2023

Today at around 7AM an emergency meeting was conducted at the residence of Shri Bishnu Kr. Khatiwara, Hon'ble Area MLA (19-Rhenock) with Ward Panchayat, representative from Power Department and affected public of Padamchay.

Local Public of Padamchay has stopped the work "Replacement of Earth wire with OPGW cable of 132KV Chuzachen HEP to Rangpo Pooling Station" between tower loc. No. 34-36, executed by ULDC (Central Agency).

The following points were discussed and concluded in the meeting.

1. There is very low ground clearance at the periphery of tower loc. No. 36. The low clearance area was fenced with barbed wire 03 years back for safety issues.
2. Local public demanded Additional tower between loc. 35-36 for improvement of ground clearance. Also, while undergoing jungle clearance of the ROW, Department must first take permission of the Land owner before executing the work.
3. Power Department stated that the estimate and report has already submitted to the higher authority for construction of additional tower between loc. 35-36. Also, requested public to kindly allow to continue the above work since it is executed by Central Government Agency and it is already been delayed for 02 years due to Kamray issue and also assured public that Department shall expedite the file processing work. Department assured to take permission of the Land owners before executing jungle clearance work of the ROW.
4. Further, local public stated that they shall not allow continuing the above mentioned work until they receive written assurance from higher authority of the Power Department/Government to construct Additional tower between loc. 35-36.
5. Area MLA Sir concluded that, He along with higher authority of the Power Department shall approach Hon'ble Chief Minister Sir at the earliest to resolve the issue and put up the project in the coming budget session in the interest of the local Public of Padamchay.

Bishnu Kumar Sharma, MLA  
Area MLA (19-Rhenock)  
SIC, GOVT. OF SIKKIM

Ashish Lamichaney, SEES  
Assistant Engineer (Elect.)  
Power Department  
Government of Sikkim  
Ph.No. 9615878284

Ward Panchayat (Padamchay)

Smt. Sabitra Sharma  
Panchayat Vice-President  
04-East Pendum GPU  
BAC Pakyong, Sikkim

Junior Engineer (EHV)

Junior Engineer (EHV)

GOVT. OF SIKKIM  
POWER DEPARTMENT  
Govt. of Sikkim

Local Public (Padamchay)

1. Bishnu Lal Sharma
2. Pungo Pa Sharma
3. Yagjee Sharma 9593982204
4. Yagjee Sharma 9593982204
- 5.
6. Ram Pa Sharma
7. Laxan Pa Sharma



- d. They will also take up the matter with CERC and would give their input to draft IEGC for bringing more clarity in regulations on IEM installation charges & its recovery. CTUIL also requested RPC forum to take up with CEA & CERC for necessary amendments in metering regulations for IEM installation charges & its recovery.
3. TCC opined that the submissions by CTUIL need further deliberation.
4. However, clarification regarding the man-day rates to be charged to various utilities for installation of Interface Energy Meters by Powergrid on behalf of CTUIL may be obtained from appropriate authority. After getting the necessary clarification, the charges for installation of SEMs would be reimbursed to Powergrid.
5. TCC was of the view that existing practice of SEMs installation in Eastern Region may be continued by Powergrid without any installation charges w.e.f 01.04.2023.

TCC referred the issue to ERPC for further deliberation/guidance.

ERPC may guide.

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*The following deliberation took place in the meeting:*

1. *Representative of Powergrid informed that SEMs installation by Powergrid on behalf of CTUIL would be on chargeable basis. He further added that as replacement/installation of IEMs is crucial for Grid operation point of view, either Powergrid can install the meter on behalf of CTUIL on chargeable basis or the utilities can themselves install the meter after collecting the same from Powergrid.*
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*After detailed deliberation ERPC opined that:*

1. *The submissions made by CTUIL in TCC and suggestions of Powergrid need further deliberation in Sub-Committees of ERPC.*
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Power Grid had been entrusted with establishing Fiber Optic network (OPGW) over 132 kV Rangpo - Chuzachen TL of EPDS, Sikkim under Eastern Region Fibre Optic Expansion Project



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3	Name: kumar chetari Contact.no: 9635664370	
4	Name: Mani Kr. Pradhan	
5	Name: Mangal Singh S/o Singh Bir Tamang	
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After multiple meeting with District Authorities and local villagers of Kamarey, work finally resumed in January 2023 with help and support of Energy & Power Dept., Govt of Sikkim. After completing 19.327 km OPGW installation, work was again stopped in Padamchay village due to public complaint over induction problem faced between tower no. 35 and 36 of 132 kV Rangpo-Chuzachen TL due to very ground low clearance issue. The list of agitating landowner in Padamchay village is tabulated below.

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3.	Bharat Kumar Sharma	
4.	Yogendra Sharma	
5.	Ram Pd. Sharma	
6.	Gyan Pd. Sharma	

The matter was informed to Energy & Power Dept., Govt of Sikkim. The Officials of Energy & Power Dept., Govt of Sikkim held meeting with local landowners and public representatives to resolve the issue. However, matter is yet to be resolved.

In this regard, it is requested that, Energy & Power Dept., Govt of Sikkim (being owner of the line) may provide necessary support for resolving the ROW issue. It may be noted that now only 1.4 km OPGW installation is pending in the said Link.

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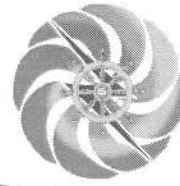
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ERPC may discuss.

**Deliberation in the 49<sup>th</sup> ERPC Meeting:**

ERPC advised representative of Sikkim to take up the matter with Govt. of Sikkim and expedite tower diversion as well as OPGW installation work.





DGPC/DGET/CHP/PTC/2024/10

January 3, 2024

Executive Director (Marketing)  
PTC India Limited  
2<sup>nd</sup> Floor, NBCC Tower  
15 Bhikaji Cama Place  
New Delhi -110 066 (India)

**Subject: Bill for CHP Energy Exported to PTC India for the Month of December 2023**

Dear Sir,

Please find enclosed the Bill No. DGPC/DGET/CHP/PTC/2023/26 dated January 3, 2024 towards energy exported by **CHP**. Since net export from CHP is nil the amount payable is Zero for the month of December, 2023.

The account detail is as given below:

- |                        |   |
|------------------------|---|
| 1. Bank Account Name : | Royal Monetary Authority of Bhutan<br>Current Account No. 11128915297<br>State Bank of India, Hasimara Branch,<br>District Alipurduar, West Bengal. |
| 2. IFSC Code :         | SBIN0001447 for SBI, Hasimara Branch  |

Yours sincerely,

(Dechen Wangmo)  
Director, CAD

**Copies to:**

1. The Managing Director, DGPC
2. Director, FID, DGPC
3. Director O&MD, DGPC
4. Head of Plant

**DRUK GREEN POWER CORPORATION LIMITED**  
**CORPORATE AFFAIRS DEPARTMENT**  
**CHP - Bill statement**

BILL No. DGPC/DGET/CHP/2023/26

PTC India Limited,  
2nd Floor, NBCC Tower  
15 Bhikaji Cama Place

Date: January 3, 2024

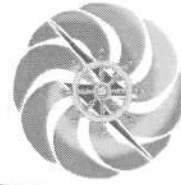
Billing Month: December, 2023

Rate/kWh (Rs.): 3.00

1	Scheduled energy for the month of December	0	MWH
2	Scheduled Rate (1*3.00)	0	Rs.



(Bhaskar Pradhan)  
Head, Druk Green Energy Trading  
Corporate Affairs Department Department  
Druk Green Power Corporation Limited  
Thimphu



DGPC/DGET/KHP/PTC/2024/11

January 3, 2024

Executive Director (Marketing)  
PTC India Limited  
2nd Floor, NBCC Tower  
15 Bhikaji Cama Place  
New Delhi -110 066 (India)

**Subject: Bill for KHP Energy Exported to PTC India for the Month of December 2023**

Dear Sir,

Please find enclosed the Bill No. DGPC/DGET/KHP/PTC/2023/26 dated January 3, 2024 towards energy exported by **KHP**. Since net export from KHP is nil the amount payable is Zero for the month of December, 2023.

The account detail is as given below:

- |                        |   |
|------------------------|---|
| 1. Bank Account Name : | Royal Monetary Authority of Bhutan<br>Current Account No. 11128915297<br>State Bank of India, Hasimara Branch,<br>District Alipurduar, West Bengal. |
| 2. IFSC Code :         | SBIN0001447 for SBI, Hasimara Branch  |

Yours sincerely,

(Dechen Wangmo)  
Director, CAD

**Copies to:**

1. The Managing Director, DGPC
2. Director, FID, DGPC
3. Director O&MD, DGPC
4. Head of Plant



**DRUK GREEN POWER CORPORATION LIMITED**  
**CORPORATE AFFAIRS DEPARTMENT**  
**KHP - Bill statement**

BILL No. DGPC/DGET/KHP/2023/26

PTC India Limited,  
2nd Floor, NBCC Tower  
15 Bhikaji Cama Place

Date: January 3, 2024

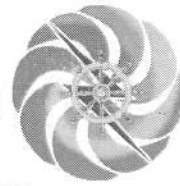
Billing Month: December, 2023

Rate/kWh (Rs.): 2.23

1	Scheduled energy for the month of December	0	MWH
2	Scheduled Rate (1*2.23)	0	Rs.



(Bhaskar Pradhan)  
Head, Druk Green Energy Trading  
Corporate Affairs Department Department  
Druk Green Power Corporation Limited  
Thimphu



DGPC/DGET/THP/PTC/2024/12

January 3, 2024

Executive Director (Marketing)  
PTC India Limited  
2<sup>nd</sup> Floor, NBCC Tower  
15 Bhikaji Cama Place  
New Delhi -110 066 (India)

**Subject: Bill for THP Energy Exported to PTC India for the Month of December 2023**

Dear Sir,

Please find enclosed the Bill No. DGPC/DGET/THP/PTC/2023/25 dated January 3, 2024 towards energy exported by **THP**. Since net export from THP is nil the amount payable is Zero for the month of December, 2023.

The account detail is as given below:

1. Bank Account Name : Royal Monetary Authority of Bhutan  
Current Account No. 11128915297  
State Bank of India, Hasimara Branch,  
District Alipurduar, West Bengal.
2. IFSC Code : SBIN0001447 for SBI, Hasimara Branch

Yours sincerely,

(Dechen Wangmo)  
**Director, CAD**

**Copies to:**

1. The Managing Director, DGPC
2. Director, FID, DGPC
3. Director O&MD, DGPC
4. Head of Plant

**DRUK GREEN POWER CORPORATION LIMITED**  
**CORPORATE AFFAIRS DEPARTMENT**  
**THP - Bill statement**

BILL No. DGPC/DGET/THP/2023/25

PTC India Limited,  
2nd Floor, NBCC Tower  
15 Bhikaji Cama Place

Date: January 3, 2024

Billing Month: December, 2023

Rate/kWh (Rs.): 2.23

1	Scheduled energy for the month of December	0	MWH
2	Scheduled Rate (1*2.23)	0	Rs.



(Bhaskar Pradhan)  
Head, Druk Green Energy Trading  
Corporate Affairs Department Department  
Druk Green Power Corporation Limited  
Thimphu





DGPC/DGET/MHP/PTC/2024/ 34

January 5, 2024

Executive Director (Marketing)  
PTC India Limited  
2nd Floor, NBCC Tower  
15 Bhikaji Cama Place  
New Delhi -110 066 (India)

**Subject: Revised Bill for Energy Exported to PTC India from MHP for the Month of December 2023**

Dear Sir,

Bhutan have imported 59.75226 MU of energy during the month of November 2023. Any export from Bhutan in the month of December 2023 and ahead will be first adjusted with the import for the month of November 2023.

The detail on the import/export and adjustments made in the monthly bill of December 2023 is as below:

Month	MHP	CHP	THP	KHP	TOTAL	Cumulative
Nov'23 as per JEMR	136.961	-21.3673	-175.346	0	-59.7523	-59.75226
Dec'23 as per schedule	4.7625	0	0	0	4.7625	-54.98976

The net energy to be adjusted in the subsequent months after netting off with the export in the month of December 2023 is 54.98976 MU.

Therefore, please find enclosed the revised Bill No. DGPC/DGET/MHP/PTC/2024/27 dated January 5, 2024 towards energy exported by **MHP**. Since net export from MHP is nil the amount payable is Zero for the month of December, 2023.

Yours sincerely,

(Dechen Wangmo)  
Director, CAD

Copies to:

1. The Managing Director, DGPC
2. Director, FID, DGPC
3. Director O&MD, DGPC
4. Head of Plant