

भारत सरकार
विद्युत मंत्रालय
उत्तर क्षेत्रीय विद्युत समिति
18-ए, श.जीत सिंह मार्ग, कटवारिया सराय,
नई दिल्ली- 110016
Government of India
Ministry of Power
Northern Regional Power Committee
18-A, S. Jeet Singh Marg, Katwaria Sarai,
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सं. उक्षेविस/वाणिज्यिक/210/वाउस(31)/2016/8933-68
No. NRPC/ Comm/210/CSC(31)/2016/

दिनांक: 29 सितम्बर, 2016
Dated : 29th September, 2016

सेवा में,
To,

वाणिज्यिक उप-समिति के सदस्य
(संलग्न सूची के अनुसार)

Members of Commercial Sub-committee
(As per list attached)


विषय: वाणिज्यिक उप-समिति की 31 वीं बैठक का कार्यवृत्त ।
Subject: 31st meeting of Commercial Sub-committee – Minutes.

महोदय ,
Sir,

उत्तर क्षेत्रीय विद्युत समिति वाणिज्यिक की उप-समिति की 31वीं बैठक दिनांक 04 जुलाई, 2016 को उत्तर क्षेत्रीय विद्युत समिति सचिवालय, नई दिल्ली में आयोजित की गई थी । इस बैठक के कार्यवृत्त की एक प्रति आपकी सूचना व आवश्यक कार्यवाही हेतु इस पत्र के साथ संलग्न है।

31st Commercial Sub-Committee meeting of NRPC was held on 04th July, 2016 at NRPC Sectt., New Delhi. A copy of the minutes of the meeting is enclosed herewith for favour of information and necessary action.

भवदीय
Yours faithfully,

 29.09.2016

(अजय तलेगांवकर)
(Ajay Talegaonkar)
अधीक्षण अभियंता (वाणिज्य)
Superintending Engineer (Commercial)

NORTHERN REGIONAL POWER COMMITTEE
Summary Record of Discussions
of
31st Meeting of Commercial Sub-Committee

The 31st meeting of Commercial Sub-Committee was held at NRPC Conference hall, New Delhi on 04th July 2016. The list of participants is enclosed at Annexure-I.

Shri Ajay Talegaonkar, Superintending Engineer, NRPC welcomed the participants of 31st Commercial Sub-Committee meeting. After brief remarks by Shri P.S. Mhaske, Member Secretary, agenda was taken up for deliberation.

ITEM-1 CONFIRMATION OF MINUTES OF 30th MEETING OF COMMERCIAL SUB COMMITTEE OF NRPC

The minutes of 30th meeting of Commercial Sub-committee were issued vide letter No. NRPC/Comml/ 210/CSC (30)/ 2016/ 243-78 dated 07th January 2016. Following comments were received on the minutes for amendment:

- a)** In ITEM NO-14(ii) of the minutes of the 30th meeting of Commercial Sub-committee, following was recorded:

Quote

.....

(ii) Bill would be sent in PDF format along with details in Excel sheet. However, PDF file would be treated as final bill.

.....

Unquote.

Representative of NTPC pointed out that they had not agreed to share the details in Excel Sheet.

After deliberation, the above was amended as under:

(ii) Bills would be sent in PDF format. NTPC will explore possibility of extracting the details in excel format for sharing with beneficiaries.

- b)** In ITEM NO-14(i) of the minutes of the 30th meeting of Commercial Sub-committee, following was recorded:

Quote

.....

(i) The next day of bill sent via email would be considered as deemed date of bill delivery.

.....

Unquote.

Representative of NHPC pointed out that they had not agreed to consider the next day of bill sent via email as deemed date of bill delivery.

After deliberation, the above was amended as under:

(i) Except NHPC other members agreed to consider the next day of bill sent via email as deemed date of bill delivery.

With the above mentioned amendments the minutes of 30th Commercial sub-committee were approved.

ITEM-2 Presentation by NRPC Secretariat

Sh. Manish Maurya, Assistant Engineer (Commercial), NRPC, made detailed Presentations on Deviation Settlement Mechanism (3rd Amendment) and RRAS Settlement Account.

ITEM-3 Balancing of pool for Congestion Charges

Explaining background of the issue, Executive Engineer (Commercial), NRPC stated that in the Congestion charges account, total payable amount in the congestion pool is not equal to the total receivable amount. NRLDC disburse the amount received in the congestion pool in the ratio of receivables to the receiving utilities. Therefore the issue of non-receipt of full congestion charges receivable by constituents as per the accounts issued by NRPC Secretariat was discussed in 31st TCC and 35th NRPC meetings. It was decided that a group comprising of members from NRPC Secretariat, NRLDC, NTPC, NHPC and TPDDL would be constituted for exploring options and making recommendations in the matter. He added that the group had submitted the report and recommendations were discussed in 30th meeting of Commercial Sub-Committee held on 23. 09.2015 and were accepted as recorded in Minutes of the Meetings of 30th Commercial sub-committee.

He further stated that, in the 32nd TCC & 36th NRPC meetings held on 23rd/24th December 2015, TCC had concurred with the recommendations of group with following modifications:

- (i) In case of deficit in congestion pool, the same should be made good from congestion pool of other regions, if they are in surplus.
- (ii) Surplus in congestion pool should be deposited in PSDF at the end of quarter instead of at the end of every month. Within a quarter, surpluses or shortages should be carried forward to next month.

It was also agreed that Member Secretary, NRPC may be authorized to take up the matter with Secretary, CERC, pointing out difficulties in implementation of regulations in present form and to make request for amendments in the light of decisions taken by TCC/NRPC.

During the deliberation in 36th NRPC meeting, on the suggestion of PTCUL it was decided that agenda may be taken up in next TCC/NRPC meeting after obtaining suggestions from utilities.

Matter was again discussed in 33rd TCC/ 37th NRPC meeting. In this meeting representative of NRLDC had suggested that National Pool may be created which could be maintained by NLDC to facilitate flow from surplus of one region to other. This was agreed to by TCC and concurred by NRPC.

The agreed position of NRPC on this issue is recorded in minutes of the 33rd TCC and 37th NRPC meeting.

Members noted information.

ITEM-4 Default in payment of outstanding dues of NHPC by beneficiaries

Representative of NHPC stated that PDD, J&K and BYPL are the main defaulter in payment of energy charges. Due to non-payment of dues, BYPL was under Power Regulation from 28.03.2016.

He further stated that UPPCL, BRPL & Rajasthan DISCOMS were also having outstanding dues of NHPC.

Since above mentioned utilities were not present in this meeting, NHPC was advised to take up with them directly.

ITEM-5 Opening of Letter of Credit (LC) in favour of NHPC

Representative of NHPC stated that LC opened by BRPL, BYPL and UPPCL had expired and had not been renewed for requisite amount.

Since above mentioned utilities were not present in this meeting, NHPC was advised to take up with them directly.

ITEM-6 Signing of PPA of Tawang HE Projects Stage-I & II

The Representative of NHPC stated that beneficiaries had been requested to convey their consent for signing of PPA of Tawang HE Project, Stage I (600 MW) & Stage II (800MW). All beneficiaries of Northern Region except UPCL had not sent their consent for signing the PPA.

During discussion it emerged that from Northern Region, only UPCL (Uttarakhand) is the beneficiary of Tawang HE Projects. Therefore members felt that there is no need to bring agenda in Commercial sub-committee meeting of Northern Region and NHPC was advised to take up the issue with UPCL directly.

ITEM-7 Extension of Bulk Power Supply Agreement / Purchase Agreement

Representative of NHPC requested all beneficiaries to convey their consent for extension of PPA/BPSA on the existing terms and conditions for a period

of 35 years from the date of COD of the respective project.

The name of beneficiaries and PPAs/BPSAs pending for extension are given below:

S. No.	Beneficiary Name	Power Station due for extension of PPA/BPSA
1.	UT Chandigarh	Salal, Uri-I, Tanakpur, Chamera-I, Sewa-II, Chamera-III, Uri-II & Parbati-III
2.	Rajasthan Discoms	Chamera-III, Uri-II & Parbati-III
3.	PDD, J&K	Salal, Uri-I, Tanakpur, Chamera-I, Sewa-II, Dulhasti, Chamera-II, Chamera-III, Uri-II & Parbati-III
4.	HPPC, Haryana	Uri-II & Parbati-III
5.	PSPCL, Punjab	Sewa-II, Chamera-III, Uri-II & Parbati-III
6.	UPCL, Uttarakhand	Uri-II & Parbati-III
7.	UPPCL, Uttar Pradesh	Salal, Uri-I, Tanakpur, Chamera-I, Sewa-II, Chamera-II, Chamera-III, Uri-II & Parbati-III

Representative of HPPC stated that they would revert back with consent of management. Representative of UPCL, UPPCL and UT Chandigarh were not present in the meeting.

Representatives from Rajasthan Discoms, PDD-J&K, and PSPCL were not present at the time of discussion. NHPC was requested to take up matter directly with them.

ITEM-8 Reconciliation statements of Dues of NHPC

Representative of NHPC stated that reconciliation had not been done by Haryana and Uttarakhand for all 4 quarters of FY 2015-16 and 3rd & 4th quarter of FY 2015-16 respectively. PDD-J&K, PSPCL, UT Chandigarh have not signed the reconciliations for 4th quarter ending Mar'2016.

SE, NRPC stated that before bringing such issues in NRPC forum, member utilities should take up the matter through formal letters etc. only in case of non-response/ unsatisfactory response, the matter should be brought to NRPC forum. This was agreed to by all members.

ITEM-9 Delay in release of payment of energy bills of NJHPS and RHPS by its beneficiaries

Representative of SJVN stated that PDD J&K, HPSEB, BYPL, UPPCL and Rajasthan Discoms were having outstanding dues for more than 60 days. He requested the beneficiaries for early liquidation of outstanding dues.

Representative of HPSEB stated that major outstanding is on GoHP part.

Since representative of PDD J&K, UPPCL, BYPL, and Rajasthan Discoms were not present in the meeting, SJVN was advised to take up with them directly.

ITEM-10 Non Opening of Letter of Credit by certain beneficiaries for power supplied from NJHPS & RHPS

Representative of SJVN Ltd stated that Power Development Department of J&K, BRPL, BYPL, HPSEB Ltd., HPPC, UPCL, PSPCL, UPPCL and Govt. of HP had not opened Letter of Credit, which was mandatory as per PPA.

Representative of HPSEBL stated that they had put up the matter to their Finance Division.

Since representative of UPPCL were not present in the meeting and representative PDD-J&K and BRPL were not present at the time of discussion and BYPL not being the member of sub-committee during the current year. SJVN was requested to take up the matter directly with these utilities.

ITEM-11 Outstanding Dues of POWERGRID

Representative of POWERGRID informed that outstanding amount of Punjab DIC has been received. He requested the beneficiaries to clear their outstanding dues at the earliest.

Since representative of UPPCL, Rajasthan Discoms, were not present in the meeting and representative of PDD-J&K, BRPL and BYPL were not present at the time of discussion, POWERGRID was advised to take up the matter directly with these utilities.

ITEM-12 Opening / Enhancement / Revalidation of Letter of Credit

Representative of POWERGRID stated that HPSEBL has informed about opening of LC but they haven't received yet.

Representative of HPSEBL noted the issue.

Since representative of UPPCL were not present in the meeting and representative of PDD-J&K, Rajasthan Discoms, BRPL and BYPL were not present at the time of discussion, POWERGRID was advised to take up the matter directly with these utilities.

ITEM-13 Delay in release of THDCIL's payments by its beneficiaries

Representative of THDCIL stated that BRPL, BYPL, UPPCL, PDD J&K, and Rajasthan DISCOMs were having outstanding dues for more than 60 days towards payment of energy charges. He added UPPCL, BRPL and BYPL were major defaulter, J&K payment was in process.

Representative of THDC further stated that BYPL had agreed to make current payment from January'16 but payment was not being received regularly.

Representative of THDC stated that in the last TCC & NRPC meetings, it was decided that all the beneficiary would make all future payments through electronic mode only. Despite the decision, Haryana was still making payments through cheques as PPA had so provided.

SE, NRPC suggested that THDC may take up the matter with Haryana for amendment in their PPA for payment of bills through electronic mode only.

ITEM-14 Opening of Letter of Credit (LC) in favour of THDC India Limited

Representative of THDC stated that PDD- J&K, BYPL and BRPL had not opened their LC for the current financial year till date that even after repeated requests.

Since representative of PDD- J&K, BYPL and BRPL were not present at the time of discussion, THDCIL was requested to take up the matter directly with these utilities.

Representative of THDC further stated that BRPL & BYPL have been continuously deducting TDS on LPSC bills; however, they have not released the payment against LPSC bills.

SE, NRPC suggested THDC to write the BRPL and BYPL seeking explanation of the issue.

ITEM-15 STATUS OF UI CHARGES

SE, NRPC stated that as per the information received from NRLDC, the status of payment of UI charges payable/Receivable by the utilities as on 31.05.2016 was as under:

		Principal UI Charges	Interest on UI charges	Principal + Interest
S.No	Utility Name	Net UI Payable(+) or Receivable(-)	Net UI Interest Payable(+) or Receivable(-)	Net Amount Payable(+) or Receivable(-)
		1	2	3=1+2
1.	CHANDIGARH	0.00000	0.14386	0.14386
2.	JAMMU & KASHMIR	538.30232	0.00000	538.30232
3.	NEPAL	0.00000	0.00037	0.00037
4.	UTTAR PRADESH	37125.47275	3531.85195	40657.32469
5.	UTTARAKHAND	0.00000	0.03544	0.03544
6.	EPPL	0.00000	1.14146	1.14146
7.	GREENKO BUDHIL	0.00000	0.00343	0.00343
8.	JSWEL	0.00000	0.00748	0.00748

#1 The differential amount of Rs. 16039.76272 Lakh is there due to different UI ceiling rate as per CERC Regulation on UI Charges and High Court of Allahabd, Lucknow bench order

dated 2.5.2008 and CERC order dated 29.5.2008 for implementation of High Court order which is subject to review based on the conclusion of the proceeding in the matter presently pending in High Court.

#2 Interest on UI charges in case of UP for the year 2008-09 has been calculated taking into consideration UI liability based on ceiling UI rate of Rs. 7.45 as per High Court and CERC order

#3 The additional UI charges of UP for the FY 2009-10 and up to week 5 of FY 2010-11 are Rs. 21085.71003 Lakh as per CERC Regulation on UI Charges which UPPCL was not required to pay in pursuance of High Court of Allahabd, Lucknow bench order dated 12.11.2009 and CERC order dated 03.12.2010. Accordingly the UI charges Payable by UP is Rs. 3531.85195 Lakh (Including interest)

Members noted the information.

ITEM-16 Status of Deviation Settlement Charges:

As per the information received from NRLDC, the status of payment of Deviation charges payable/Receivable by the utilities as on 31.05.2016 was as given below:

		Principal DS Charges	Interest on DS charges	Principal + Interest
S.No	Utility Name	Net DSC Payable(+) or Receivable(-)	Net DSC Interest Payable(+) or Receivable(-)	Net Amount Payable(+) or Receivable(-)
		1	2	3=1+2
1	CHANDIGARH	-26.7481	0	-26.7481
2	DELHI	0	0	0
3	HARYANA	-0.47966	0	-0.47966
4	HIMACHAL PRADESH	1644.76035	0	1644.76035
5	JAMMU AND KASHMIR	6170.86487	0	6170.86487
6	NEPAL	14.15746	0	14.15746
7	PUNJAB	-128.07062	0	-128.07062
8	RAILWAYS	-45.2431	0	-45.2431
9	RAJASTHAN	0.00057	0	0.00057
10	UTTAR PRADESH	34632.33987	0	34632.33987
11	UTTARAKHAND	-67.84298	0	-67.84298
12	APCPL	0	0	0
13	NHPC	0	0	0
14	NTPC	-3.81275	0	-3.81275
15	NTPC SOLAR	0	0	0
16	SJVN	0	0	0
17	THDC	82.96461	0	82.96461
18	ADHPL	0	0	0
19	EPPL	50.65573	0	50.65573
20	GREENKO BUDHIL	143.56736	32.26023	175.82759

21	HIMACHAL SORANG	0.42314	0	0.42314
22	JSWEL	-26.32321	0	-26.32321
23	SCL	0	0	0
24	ER-NR	3331.42965	0	3331.42965
25	NER-NR	0	0	0
26	WR-NR	0	0	0
27	Pool Balance	-57378.49805	-32.26023	-57410.75828

Representative of NRLDC stated that Deviation Pool Account Fund of NR is being maintained & operated by NRLDC in accordance with the CERC Regulations. As per Regulations 10(1) of “Deviation Charges Related matters”, the payment of charges for Deviation shall have a high priority and the concerned constituents shall pay the indicated amounts within 10 days of issue of statement of Charges for Deviation including Additional Charges for Deviation by the Secretariat of the respective Regional Power Committee in to the “Regional Deviation Pool Account Fund” of the concern region.

Members noted the information.

ITEM-17 Status of LC against Deviation Charges delayed payment:

Representative of NRLDC stated that status of LC against Deviation charges delayed payment was as given below:

S. No.	Name of NR Pool members	LC Amount (Rs. in Lakh.)	Status	No defaults of in Deviation Payment in 2015-16
1	UPPCL, UP	937.74	LC not opened	52
2	UPCL, Uttarakhand	307.31	LC not opened	12
3	HPSEB, Himachal	200.95	LC not opened	52
4	PDD, J&K	123.51	LC not opened	25
5	EPPL	2.64	LC not opened	39
6	Greenco Budhil	19.46	LC not opened	20
7	Punjab	567.63	LC not opened	30
8	DTL	179.57	LC not opened	2
9	HBPCL	39.02	LC not opened	5
10	UT Chandigarh	58.46	LC not opened	15
11	Rajasthan	441.11	LC not opened	30
12	Railways	69.56	LC not opened	1
13	SJVNL	63.67	LC not opened	1
14	APCL	68.41	LC not opened	5
15	HVPNL	628.48	LC not opened	1

16	Himachal Sorang	0.02	LC not opened	2
17	NTPC	334.48	LC not opened	1
18	SCL	44.21	LC not opened	2

Representative of DTL stated that BRPL and BYPL had huge outstanding for deviation charges but they were making regular payment of current dues. He requested to waive off LC amount in respect of Delhi.

It was pointed out that as per CERC regulation it is mandatory to open LC, hence the request cannot be accepted.

Defaulting entities were requested to open the LC against Deviation Charges as per the Regulations of CERC.

ITEM-18 STATUS OF REACTIVE ENERGY (RE) CHARGES

SE, NRPC stated that as per the information received from NRLDC, the status of payment of Reactive Energy charges payable/Receivable by utilities as on 28.06.2016 was as given below:

S. No.	Utility	Opening balance for 2016-17	Amount Payable to pool(Rs.)	Amount Receivable from pool(Rs.)	Amount paid to pool(Rs.)	Amount disbursed from pool(Rs.)	Total Principal Outstanding (Rs.)	Interest (upto 3 rd Qtr 15-16) on RE charges
1	CHANDIGARH	-26515901	0	1550416	0	451605	-27614712	-7498018
2	DELHI	43707011	10955890	1388792	0	0	53274109	-11229820
3	HIMACHAL PRADESH	-51213115	69316	4358634	69316	38799	-54204562	-9775470
4	HARYANA	-684164244	0	32673533	0	12000383	-704837394	-127300922
5	JAMMU AND KASHMIR	2406102311	105292619	0	0	0	2511394930	447010804
6	PUNJAB	96494351	4171150	4889155	31893905	0	63882441	-6266033
7	RAJASTHAN	-380059355	0	21178052	0	4815965	-396421442	-83066748
8	UTTARAKHAND	-3057141	1900041	249663	1900041	194032	-3112772	-367000
9	UTTAR PRADESH	-1273503439	0	56100771	0	23107118	-1306497092	-201506792

Representative of NRLDC stated that as on date total outstanding of Reactive Energy Charges against PDD J & K was Rs. 295.84 Cr (Principal Rs. 251.14 Cr., & Delay payment Interest Rs. 44.70 Cr).

All defaulting constituents were requested to release outstanding RE charges payments at the earliest.

It was deliberated that as per para 55 of order dated 02.09.2015 by Hon'ble CERC, in petition 142/MP/2012, RLDC can deny open access under sec-25A of Open access regulation for consistent & willful default by an entity in payment of :

- DSM charge
- Transmission charge,

- c. Reactive energy charge,
- d. Congestion charge
- e. RLDC/NLDC fees & charge including ULDC charge.

As per the said order, RLDCs can deny Open Access from the 'default trigger date' which is 90 days from the 'Due date' without approaching the Commission .

Members noted the information.

ITEM-19 Implementation of ABT in BBMB System

Representative of NRLDC stated that as per CERC order in Petition No. 251/GT/2013, BBMB had to commence the scheduling of power from its generating units/transmission assets under ABT from 01.06.2016. There are issues regarding accounting, metering and scheduling the BBMB power.

Representative of BBMB proposed to call a meeting with all stakeholders to discuss the modalities regarding the issue. This was agreed to.

ITEM-20 NOC issued to NTPC Ltd

Representative of NRLDC stated that NTPC was trading URS power through PX in line with provisions of Tariff Policy. Accordingly, NOC was issued by NRLDC. The NOC issued by NRLDC, clearly stated that NTPC could trade the quantum of power equal to the URS power of the concerned beneficiary. It was also mentioned in the NOC that at any point of time Scheduled Generation (SG) at Ex-bus should not be more than Ex-bus Declared Capacity (DC). But in some cases schedule was greater than DC as original beneficiaries had again requisitioned their left out power with the station. He stated that NTPC should ensure that URS power should be available from the concerned beneficiary before submission of bids for trade in PX. Further after the clearance of trade in PX, NTPC should inform to the concerned beneficiary that they do not requisition the quantum of power already traded in PX.

Representative of NTPC stated that they would take care of this issue.

ITEM-21 Requirements of DCDs

Representative of NRLDC stated that at few Locations like Khurja (UPPCL), Renuagar (UPPCL), Kotdwar (UPCL), Lalsot (RVPNL), BTPS (NTPC), Baglihar (PDD), Noida-Sector 62 (UPPCL), and Shanan (PSEB) are facing DCD issues.

Representative of NRLDC stated that now they were receiving data through AMR from many sites but communication failure may occur at any point of time. However, for ensuring continuity of data, DCD must be available.

Representative of CTU stated that DCD may not function properly if it is not charged fortnightly, therefore it is highly recommended to charge it periodically, even though not in use.

SE, NRPC proposed that NRLDC may issue guideline to the utilities for charging of DCD regularly whether it is in use or not. NRLDC agreed for the same.

ITEM-22 Congestion Charges

Representative of NRLDC stated that based on Congestion charge statement up to week no. 42 dated 24th February 2016, the amount received in the congestion charges account was disbursed to the receivable parties. As on 4th July, 2016 outstanding status was as under:

S No.	CONSTITUENTS	Outstanding Amount in Rs. Lakh
1	DELHI	2.26
2	HARYANA	65.0975
3	J&K	110.57
4	U.P.	130.30903
5	RAILWAY	0.08639
6	HIMACHAL PRADESH	34.14316
7	EPPL (MALLANA-II)	22.67807
8	GREENCO BUDHIL	3.49

Note: - Positive values shows payable to Pool and negative values receivable from pool.

Representative of DTL and HPSEBL expressed need for reconciliation. Representative of NRLDC agreed to the same.

ITEM-23 Inter - State Transmission losses in NR

Representative of NRLDC stated that the list of points being used for injections / drawl calculation along with their CT/PT ratios was uploaded on NRLDC website. The constituents were requested to check their drawl / injection points and CT/PT ratios being used. Comments/discrepancies, if any, on the same should be communicated to NRLDC at the earliest.

SE, NRPC proposed that NRLDC should take undertaking from utilities in every Commercial sub-committee meeting for correctness of CT/PT ratio of their respective injection / drawal points. This was agreed to by members.

ITEM-24 Truing up of NRLDC Fee & Charges Payments for 2009-14

Representative of NRLDC stated that truing up details of NRLDC Fees &

Charges Payments for 2009-14 were available on NRLDC website. (<http://nrlcdc.org/truingup.aspx>)

Representative of SLDC, Delhi raised the issue of double TDS and requested NRLDC to raise bill directly to the Discoms. Representative of NRLDC stated that they could not raise bill to Discoms directly, as they were not registered entity with NRLDC.

SE, NRPC suggested that Delhi, SLDC may apportion charges among Discoms. Discoms may make payment directly to the NRLDC and NRLDC would consider it as a payment from Delhi.

NRLDC agreed to look into possible options within the ambit of law.

ITEM-25 Reconciliation of NRLDC Fee and charges

Representative of NRLDC stated that they had sent the reconciliation statements of NRLDC Fee and Charges for the billing period Nov-15 to Jan-16 to all the users. The users were requested to send the duly signed and verified copy of reconciliation statement as a token of acceptance by 10.05.16. However, they were yet to receive verified copy of reconciliation statement.

Entities were requested to verify the NRLDC Fee & Charges Reconciliation statement at the earliest. In case non receipt of any communication, it would be presumed that statement stands reconciled.

ITEM-26 Reconciliation of Deviation Account

Representative of NRLDC stated that they had sent and uploaded on the website the reconciliation statements of Deviation Charges accounts for the period of Jan-16 to Mar-16, on 21.04.2016. The constituents were requested to verify /check the same & comments if any on the same were to be reported to NRLDC by 10.05.2016. As on 4th July, 2016, NRLDC had received the duly signed copy of Reconciliation statement only from NTPC, NHPC, THDC, DTL and ADHPL.

Members were requested to verify the Deviation Charges Reconciliation statement as a normal practice. In case non receipt of any communication it would be presumed that statement stands reconciled.

ITEM-27 Reconciliation of RE Account

Representative of NRLDC stated that they had sent the reconciliation statement of RE accounts for the period Jan-16 to Mar-16 on 19.04.2016. The constituents were requested to verify /check the same & comments if any on the same to be reported to NRLDC by 30.04.2016. However till date no such comment received.

Entities were requested to verify the Reactive Energy Charges Reconciliation statement. In case non receipt of any communication it would be presumed that statement stands reconciled.

ITEM-28 Reconciliation of STOA Charges disbursement

Representative of NRLDC stated that they had sent the reconciliation statement of open access disbursement for the Quarter 4 of financial year 2015-16 on 19th April 2016. The applicants/STU/SLDCs were requested to verify /check the same & comments if any on the same to be reported to NRLDC by 30th April 2016. As on 4th July,2016, duly signed reconciliation statements from Tata Power Trading Corp. Ltd. Arunachal Pradesh Power Co. Pvt Ltd, Manipur and Orissa SLDC had been received.

Entities were requested to verify the Reconciliation statement as a normal practice. In case non receipt of any communication it would be presumed that statement stands reconciled.

ITEM-29 STOA Rates of State Network in Northern Region

Representative of NRLDC stated that they were considering following intra-state transmission charges (STU rates) for scheduling of STOA transactions as on 4th July,2016:

Sl. No.	Name Of Constituents	Rates in Rs. / MWh
1	Punjab	1270
2	Haryana	330
3	Delhi	251.9
4	Rajasthan	292.3
5	Uttar Pradesh	172.3
6	Himachal Pradesh	20
7	Uttarakhand	125.95
8	Jammu & Kashmir *	80
9	UT Chandigarh *	80

**ST Rates not intimated to NRLDC*

He added that these rates were being displayed on NRLDC Website.

STUs were requested to inform any change in intra-state transmission charges to NRLDC at the earliest.

ITEM-30 TDS Certificates against STOA Charges

Representative of NRLDC stated that deduction of TDS on open access charges is being made under two heads – one for POSOCO and one for POWERGRID, as per the payment schedule. It was observed that details of TDS being deducted by the applicants under the two heads while making the

payment for short term open access bilateral transactions were not being sent to the NRLDC on a regular basis.

NRLDC vide letter dated 05th February, 2015 had intimated that TDS being deducted was to be deposited with the Tax authorities by the 7th of every month for the previous month & details be submitted by the 10th of every month for the previous month along with challan numbers. TDS Certificates are to be submitted on a quarterly basis after filing of return and reconciliation can be carried out subsequently.

Non submission of details of TDS/proof of depositing TDS with the Tax authorities would be treated as default in payment of open access charges in terms of Regulation 19(1) of the CERC Open Access in Inter-State Transmission Regulations 2008 and NRLDC may be constrained to take action accordingly.

“19. (1) In case of default in payment of the application fee or the charges specified under these regulations, the nodal agency may, in its discretion, decide not to schedule the transaction, or to cancel the scheduling of already scheduled transaction or not to entertain any application of such persons in future until such time the default is cured.”

Members noted the information.

ITEM-31 Status of Outstanding STOA Delay Payment Interest

Representative of NRLDC stated that as per Regulations 19(2) of Open Access Inter State Regulations 2008, the person committing default in payment shall pay simple interest @ of 0.04% for each day of default. The applicant wise outstanding interest amount (computed till 31.3.2016) was as under:

Applicant Name	Interest Amount before April 2012	Interest Amount for 2012-15	Interest Amount for 2015-16	Total Interest amount	Amount Received	Outstanding Interest
J&K	0	2868905	69362	4738665	0	2938267
Provestment	0	0	68332	68332	24719	43613
RPPC	0	2502273	0	2533342	3534	2502273
UPPCL	23529	514458	662	538649	514458	24191
Total	23529	5885636	138356	7878988	542711	5508344

He further added that applicants should clear their Interest dues at the earliest failing which NRLDC would consider to block the punching of respective applicant's applications as per Regulations.

ITEM-32 Information of Deviation / Reactive payment in NR pool

Representative of NRLDC stated that the matter regarding furnishing of information of Deviation/reactive payment in NR pool account is being deliberated in commercial sub-committee Meetings regularly. NR pool members (payable) were again requested to intimate the details of payment being made by them in the format given below:

Email account: Nrpool2010@gmail.com

S. No	Name of Utility	Amount	Deviation/Reactive account Week No	Date	Transaction Id	Mode of Payment

ITEM-33 Status of AMR

Representative of NRLDC stated that, they were receiving data from 205 locations (complete data from 130 locations and partial data from 75 locations) out of total 221 locations through AMR.

SE, NRPC stated that progress in this issue is very tardy.

Representative of POWERGRID stated that they had started Site Acceptance Test (SAT) and requested NRLDC to provide details of these 75 locations so that problem of partial receipt of data may be resolved at the time of SAT.

The sub-committee decided that POWERGRID should expedite installation AMR and monthly/weekly targets may be set e.g. 30 locations per month and a joint report at the end of each month from NRLDC and POWERGRID should be submitted to NRPC sectt. Progress would be reviewed in OCC also.

This was agreed to by representatives of POWERGRID and NRLDC.

ITEM-34 Issues in recording by Interface Meters

NRLDC had given a list of meters, having data issues. The list along with the status, as informed by different utilities is enclosed at Annexure-II.

The metering issues were discussed and concerned utilities were requested to take action for resolving the issues on priority and report action taken to NRPC sectt. / NRLDC

ITEM-35 Nodal officers for Interface Meter Issues

Representative of NRLDC stated that following constituents had not finalised Nodal officers for Interface Meters issues:

- a. UPJVNL(Rihand, Khara)
- b. Punjab

- c. PDD, JAMMU
- d. HPSEB
- e. NPCIL.

Utilities were requested to inform name and contact details of Nodal Officers during or before the sub-committee meeting.

Members agreed to submit the names of Nodal Officers.

ITEM-36 Locations not sending Interface Meter data by Tuesday during last four weeks

Representative of NRLDC stated that following locations were sending interface meter data late to NRLDC since last three months:

- | | |
|-----------|--|
| a. UPPCL | Mainpuri, Fatehpur, Nehtaur, Kiratpur, Muradnagar, Dhampur, Moradabad, Thakurdwara |
| b. HPSEB | Hamirpur, Mandi Bijni |
| c. UPJVNL | Chilla, Kulhal, Chibro |
| d. UPCL | Roorkee, Pantnagar, Kicha, Dhalipur |
| e. RRVPNL | Khetri, Ratangarh |
| f. HVPNL | Bhiwani, Hissar |
| g. PDD | PDD Jammu, Barn. |
| h. PSEB | Shanan, Govindgarh, Mahilpur, Kangra, Nakodar |
| i. PGCIL | Samba, Baghat |
| j. BBMB | Ganguwal |

Constituents were requested to ensure that the data should be transmitted to NRLDC in time.

Members agreed to take up the matter with respective sites for ensuring timely submission of data.

ADDITIONAL AGENDA ITEM:

ITEM-37 Principles for calculation of Compensation for degradation of Heat Rate, Aux Consumption and Secondary Fuel Oil consumption due to part load operation and multiple start/stop of units.

Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Fourth Amendment) Regulations, 2016 were notified on 04.06.2016. As per sub-regulation 7 of Regulation 6.3 B of these Regulations, the RPCs have to work out a mechanism for compensation for station heat rate and auxiliary energy consumption for low unit loading on monthly basis in terms of energy charges and compensation for secondary fuel oil consumption over and above the norm of 0.5 ml/kWh for additional start-ups in excess of 7 start-ups, in consultation with generators and beneficiaries at RPC forum and its sharing by the beneficiaries. Accordingly, the principles for the mechanism were

proposed by NRPC secretariat (enclosed at Annex-III). The principles were discussed and suggestions were invited from the members of the sub-committee. It was decided that after receipt of comments the detailed mechanism would be prepared by NRPC secretariat and the same would be discussed in next OCC meeting.

Annexure-I**List of Participants of 31st Commercial Subcommittee Meeting on 04.07.2016
at NRPC Sectt., New Delhi**

S.No.	Name of Officer	Designation	Organisation
1.	BBMB		
	Sh. Kuldeep Singh Manderna	Power Controller	BBMB
2.	DELHI		
	Sh. Sanjay Srivastav	Addl.V.P	BRPL
	Sh. R.K.Nagpal	GM(T) Comml.	IPGCL/PPCL
	Sh. Satyendra Prakash	AGM(T) COS	IPGCL/PPCL
	Sh. Susheel Gupta	Manager(EA)	SLDC/DTL
	Sh. Deepak Sharma	AM	SLDC/DTL
	Sh. Sunil Kakkar	Addl. V.P	BYPL
	Sh. Haridas Maity	DGM	BYPL
3.	HARYANA		
	Sh. Atul Pasrija	SE	UHBVN
	Sh. Narender Singh	Asstt.	UHBVN
	Sh. Kamal Puri	Div. Accountant	UHBVN
	Sh. Sunil Seth	SE	HVPNL
	Sh. Jai Ram	Xen LD&PC	HVPNL
4.	HIMACHAL PRADESH		
	Sh. Rakesh Sharma	Dy.C.E.(SLDC)	HPSLDC
	Sh. Deepak Uppal	SE(PR&ALU)	HPSEBL
	Sh. Joginder Singh	SE(I/S)	HPSEBL
5.	J & K		
	Sh. S.K. Kaul	SE (C&S)	PDD J&K
6.	PUNJAB		
	Sh. Iqbal Singh	Addl .SE	PSPCL
7.	RAJASTHAN		
	Sh. Manish Nath Sharma	Xen(ISP)	RVPNL
	Sh. Amitabh Gupta	AEN	SLDC
	Sh. Atul Sharma	Xen	SLDC
8.	UTTAR PRADESH		

	Sh. S.P.Gupta	EE	UPSLDC
	Sh. Brijesh Singh	EE	UNL
9.	UTTARAKHAND		
	Sh. Meg Bahadur	GM(Comml)	UJVNL
	Sh. Purushottam Singh	E.D.(O&M)	UJVNL
10.	NHPC		
	Sh. Amrik Singh	CE	NHPC
	Sh. Virendra Kumar	Manager	NHPC
11.	NTPC		
	Sh. Rakesh Chopra	GM	NTPC
	Sh. Amitava Roy	GM	NTPC
	Sh. Manoj Mathur	GM	NTPC
	Sh. Shyam Kumar	AGM	NTPC
	Sh. Shailesh Dheman	DGM	NTPC
	Sh. S.P.Kesarwani	DGM	NTPC
12.	PGCIL		
	Sh. Subhash.C.Taneja	AGM(Comml.)	POWERGRID
	Sh. Vineet Srivastava	Asstt. GM(Comml.)	POWERGRID
	Sh. M.S.Hada	Manager	POWERGRID
13.	SJVN		
	Sh. Bhagwant Raj Kashyap	Dy.Manager	SJVL
14.	THDCIL		
	Sh. Aran Kumar	Sr. Engg(O&M)	THDCIL
	Sh. Sarosh Hajid Siddiqi	DGM	THDCIL
15.	NRLDC		
	Sh. P.K.Agarwal	GM	NRLDC
	Sh. D.K.Jain	AddlGM	NRLDC
	Sh. H.K.Chawla	DGM	NRLDC
	Sh. M.K.Agrawal	DGM	NRLDC
	Ms. Paulami Ghosh	Sr.Engr	NRLDC
	Sh. Sachin Panwar	J.E	NRLDC
	Sh. Sameer Saurabh	Sr.Engr	NRLDC
16.	LANCO ANPARA		
	Sh. Arun Tholia	GM(Comml)	Lanco Anpara Pvt. Ltd

17.	CLP JHAJJAR		
	Sh. Karunakar Jha	DGM-CommI	JPL
	Sh. Sumit Sinha	DM(CommI)	JPL
	Sh. Ankit Sapra	DM (O&M)	JPL
18.	NLDC		
	Sh. Mohit Joshi	Dy.Mgr	NLDC
	Sh. Saif Rehman	Engr.	NLDC
19.	NRPC		
	Sh. P.S.Mhaske	MS	NPRC
	Sh. Ajay Talegaonkar	SE(C)	NPRC
	Sh. Hemant Kumar Pandey	SE	NRPC
	Sh. B.S.Bairwa	EE(O)	NPRC
	Sh. B.S.Meena	EE(C)	NRPC
	Sh. Manish Maurya	AE(C)	NPRC

Annexure-II

Sl. No.	Meter No./ Code	Element Name	Station /Utility	Issue	Remarks(if any)	Status
1	UQ-31/ NP-6668-A	132kV Rajghat at Lalitpur-UPPCL	UPPCL	Meter data not being received	Line normally not in service. Pending issue since last meeting.	UPPCL to take action
2	UP-32/ NP-1532-A	132kV Morwa at Anpara-UPPCL	UPPCL	Meter data not being received	Line normally not in service. Pending issue since last meeting.	UPPCL to take action
3	UP-84 NP-6805-A	400kV Dadri at Greater Noida-UPPCL	UPPCL	Meter data not being received	Meter not responding.	UPPCL to take action
4	UP-68 NP-1585-A	220kV NAPS-1 at Khurja-UPPCL	UPPCL	Meter data not being received	Problem of DCD at Khurja. However, data from AMR suggests that meter reads abrupt. Meter can be replaced.	Problem has been rectified.
5	PU-59 NP-1563-A	220 kV Ganguwal-1 at Majra-PSEB	PG	Meter data not being received	Meter shifted from Mohali (PSEB) end. DCD not available.	Problem solved. DCD made available from Mohali. Mohali's data taken through AMR.
6	RH-07/ NP-8042-A	220kV Anta-2 at Lalsot-RVPNL	RVPNL	Meter data not being received	DCD/MRI and requisite software to be provided by PG.	POWERGRID to take action
7	UR-03/ NP-8569-A	400kV Uri-II at Uri-I	NHPC	Meter reading zero	To be replaced by PG. Pending issue since last meeting.	POWERGRID to take action
8	Orig No.01955 847	400kV Muradnagar at Dadri, NTPC	NTPC	Meter reading less.	CT/PT Connections to be checked. Meter to be replaced.	NTPC/ POWERGRID to take action

Sl. No.	Meter No./ Code	Element Name	Station /Utility	Issue	Remarks(if any)	Status
9	SI-35/ NP-8239-A	132 Kv Side ICT-1 at Singrauli Solar, NTPC	NTPC	Polarity Issue	CT/PT Connections to be checked.	NTPC to take action
10	DA-31 NP-1120-A	400kV HVDC-1 at Dadri-NTPC	NTPC	Meter reading less.	CT/PT Connections to be checked. Meter to be replaced.	NTPC to take action
11	UN-33/ NP-8171-A	220Kv Side ICT-1 (33/220) at Unchahar solar	NTPC	Polarity Issue	CT/PT Connections to be checked.	NTPC to take action
12	AN-24/ NP-6704-A	GT-4 (220kV) at Anta CCPP	NTPC	Meter reading 1/3	Meter has been replaced on 17-05-16 still the problem persists. CT/PT connections to be checked first and then to be replaced.	NTPC to take action
13	NU-08/ NP-5162-A	ICT-3 (400 kV) at Allahabad-PG	PG	Meter reading less as compared to standby	CT/PT connections to be checked first and then to be replaced.	POWERGRID to take action
14	NG-78/ NP-7392-A	BHIWADI HVDC POLE-1 AT Balia-PG	PG	Meter reading half as compared to other end	CT/PT connections to be checked first and then to be replaced.	POWERGRID to take action
15	NS-34 NP-6664-A	BHIWADI HVDC POLE-2 AT Balia-PG	PG	Meter reading 2/3 as compared to other end	CT/PT connections to be checked first and then to be replaced.	Problem has been rectified.
16	NS-83 NP-5453-A	400 KV Amritsar PG-1 at Banala-PG	PG	Meter reading less as compared to standby	CT/PT connections to be checked first and then to be replaced.	POWERGRID to take action
17	NS-84 NP-5473-A	400 KV Amritsar PG-II at Banala-PG	PG	Meter reading less as compared to standby	CT/PT connections to be checked first and then to be replaced.	POWERGRID to take action
18	NY-07	ICT-2 (220	PG	Meter reading	CT/PT	Problem has

Sl. No.	Meter No./ Code	Element Name	Station /Utility	Issue	Remarks(if any)	Status
	NP-1678-A	kV) at Samba-PG		2/3 a s compared to other end	connections to be checked first and then to be replaced.	been rectified.
19	NY-05 NP-1865-A	ICT-2 (400 kV) at Samba-PG	PG	Meter Data Not Received	CT/PT connections to be checked first and then to be replaced.	Problem has been rectified.
20	NU-65 NP-8038-A	400/220 kV ICT-1 (400KV) at Baghpat PG	PG	Meter reading 2/3 as compared to standby	CT/PT connections to be checked first and then to be replaced.	Problem has been rectified.
21	NU-60 NP-8186-A	400 kV ICT-I at Agra-PG	PG	Polarity Issue	CT/PT connections to be checked	Problem has been rectified.
22	RT-03 NP-6665-A	ICT-3 (220kV) at Bhiwadi (PG)	PG	Meter reading less as compared to main	CT/PT connections to be checked	POWERGRID to take action
23	UP-52 NP-6135-A	400 kV Panki-2 at Kanpur-PG	PG	Meter reading 2/3 as compared to main	CT/PT connections to be checked	Problem has been rectified.
24	NP-1073-B	Gen-2 at Kulhal-HEP	Kulhal	Meter Not responding	To be replaced.	
25	RA-06/ NP-1069-B	132 kV Gandhisagar at RAPS-A	NPC	Meter Data Not Received	---	NPCIL to take action
26	LN-01/ NP-6960-A	220 KV Chamera-3 at Greenco Budhil HEP		Meter reading less comp to the other end/standby	CT/PT connections to be checked first and then to be replaced.	IPP to take action
27	SW-25/ NP-8584-A	33 kV SEWA-III(J&K PDD) at SEWA-II	NHPC	Meter data not being received	---	NHPC to take action
28	NP-1853-A NP-1854-A	220 kV RSHEP-1 &2 at Hiranagar-PDD	PDD	The date field on meter shows D-2(D=current day)	PG may take up the issue with L&T.	POWERGRID to take action
29	DL-29 NP-1743-	ICT-3 (220 kV) at	DTL	Meter reading 2/3 as	CT/PT connections to	Problem has been rectified.

Sl. No.	Meter No./ Code	Element Name	Station /Utility	Issue	Remarks(if any)	Status
	A	Bamnauli-DTL		compared to standby since 18-04-16	be checked first and then to be replaced.	
29	HR-37 NP-3087-A	132 kV at Ropar-2 Pinjore-HVPN	HVPN	Meter reading 2/3	Meter CT ratio may be verified.	HVPNL to take action

Annexure-III**Draft methodology for calculation of Compensation for degradation of Heat Rate, Aux Consumption and Secondary Fuel Oil consumption due to part load operation and multiple start/stop of units.****1. Introduction**

Based on the Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Fourth Amendment) Regulations, 2016 and Central Electricity Regulatory Commission (Terms and Conditions of Tariff), regulation, 2014, as and when amended following procedure is adopted for compensation for degradation of Heat Rate, Aux Consumption and Secondary Fuel Oil consumption due to part load operation and multiple start/stop of units. The Extract is attached of the regulation as Annexure-III(A) & Annexure-III(B) respectively.

1. Preliminary calculations shall be carried out on 15 minute block basis.
2. (i) Percentage station-wise loading for a block will be determined excluding schedule given under RRAS as below

$$\% \text{ Loading} = \frac{\text{Total Schedule of the Stage}}{\text{Installed Capacity of the Stage on Bar} \times (1 - \text{Normative Auxiliary Consumption})} \times 100$$

Note: Schedule given under RRAS will be taken as (-)ve for down regulation and (+)ve for up regulation.

(ii) Since Auxiliary consumption itself depends on percentage loading, initial calculation for percentage station loading will be done using Normative Aux Consumption and thereafter an iterative process will be carried out till convergence of Percentage loading and Aux Consumption within a specified percentage say 0.1%.

3. This percentage loading shall be used for getting increase in SHR and Auxiliary consumption in accordance with the Sub-Regulation 6.3 B (i)&(ii) of Central Electricity Regulatory Commission (Indian Electricity Grid Code) (Fourth Amendment) Regulations, 2016.
4. Based on the values of increased SHR and Aux. consumption arrived at step 3, Energy Charge Rate (ECR) for scheduled energy i.e. ECR(SE) from the station shall be calculated using following formula specified in Tariff Regulations.

(a) For coal based and lignite fired stations

$$ECR(SE) = \{(GHR + \Delta GHR) - SFC \times CVSF\} \times LPPF / CVPF + SFC \times LPSFi + LC \times LPL\} \times 100 / (100 - (AUX + \Delta AUX))$$

(b) For gas and liquid fuel based stations

$$ECR(SE) = (GHR + \Delta GHR) \times LPPF \times 100 / \{CVPF \times (100 - (AUX + \Delta AUX))\}$$

5. Similarly, ECR corresponding to Declared Capacity (DC) shall also be calculated and used as reference for calculating compensation. This is because the effect of less declaration (with respect to Installed capacity), if any, on the SHR and Aux Consumption should be to the account of ISGS.

(a) For coal based and lignite fired stations

$$ECR(DC) = \{(GHR + \Delta GHR) - SFC \times CVSF\} \times LPPF / CVPF + SFC \times LPSFi + LC \times LPL\} \times 100 / (100 - (AUX + \Delta AUX))$$

(b) For gas and liquid fuel based stations

$$ECR(DC) = (GHR + \Delta GHR) \times LPPF \times 100 / \{CVPF \times (100 - (AUX + \Delta AUX))\}$$

6. The primary estimate for ECR to be used for calculation of compensation to be paid to ISGS for the 15 minute time block shall be difference in the ECR (DC) and ECR (SE).

$$ECR_{ij} (Comp) = ECR_{ij} (DC) - ECR_{ij} (SE)$$

Where i = 1 to 30/31 days

j = 1 to 96 time blocks of the day

7. The compensation payable to ISGS for the block would be:
 Compensation(UP Regulation) = (Total Schedule for the Block- Energy Schedule during the Block under RRAS) * ECR_{ij} (Comp)
 Compensation(Down Regulation) = (Total Schedule for the Block- Energy Schedule during the Block under RRAS) * ECR_{ij} (Comp)
8. The sharing of the Compensation for the block among various beneficiaries shall be done as under:
 - (i) No compensation shall be payable by beneficiaries if has requisitioned at least 85% of its entitlement.
 - (ii) The compensation amongst other beneficiaries shall be shared in the ratio of un-requisitioned energy below 85% of their entitlement.
9. Preliminary estimate of ECR to be used for calculation of compensation to be paid to ISGS for the month shall be obtained by adding ECR (Comp) for each time block of the month.

$$ECR (Comp-M) = \sum_i \sum_j ECR_{ij} (Comp)$$

10. ECR (actual-M) for the month shall be calculated using actual values of SHR and Aux Consumption furnished by ISGS at the end of the month. Similarly, ERC (Norm-M) shall be calculated using Normative values of SHR and Aux Consumption furnished by ISGS.

11. Monthly compensation payable to ISGS would be decided based on following criteria:

- (i) No compensation shall be payable to ISGS if ECR (Actual-M) is less than or equal to ECR (Norm-M).
- (ii) In other cases, ECR (Comp-M) will be restricted to ECR (Actual-M) minus ECR (Norm-M)
i.e $ECR (Norm-M) (Restricted) = ECR (Actual-M) - ECR (Norm-M)$

12. Compensation payable to ISGS for the month(UP Regulation)= (Total Schedule for the month- Energy Schedule during the month under RRAS) * {ECR (Comp-M) or ECR (Comp-M)(Restricted) as the case may be}
Compensation payable to ISGS for the month(Down Regulation)= (Total Schedule for the month) * {ECR (Comp-M) or ECR (Comp-M)(Restricted) as the case may be}

13. If ECR (Comp-M) has not been restricted as per step 11(ii) above, each beneficiary shall pay to ISGS sum of compensation payable by it for each time block of the month.

Else

Compensation payable by each beneficiary for the month shall be restricted in the ratio of ECR (Comp-M) (Restricted) to ECR (Comp-M)

14. In order to carry out yearly reconciliation, steps 10 to 13 shall be repeated with yearly values.

Calculation for Fuel consumption:

15. No compensation for degradation of Sec. Fuel oil consumption is payable for the year if

- (i) Total number of start-ups are equal to or less than 7
Or
The Actual Secondary Fuel Oil consumption is less than Normative Fuel Oil Consumption.
- (ii) Preliminary estimate of Compensation (in terms of KL of Sec. Oil) payable to ISGS for the year due to degradation of Sec. Fuel oil consumption shall be calculated as per Regulation 6.3(b)(3) (iii) based on additional start-ups solely attributable to reserve shut-downs.
- (iii) Compensation payable to ISGS shall be restricted such that Oil Consumption based on Norms plus Compensation calculated in step (ii) above does not exceed actual Secondary Fuel oil consumption for the year.

- (iv) Compensation in terms of Rupees shall be calculated by multiplying compensation in terms of KL as calculated in step (ii) and average landed price of Sec. oil for the year.
- (v) Each start-up due to reserve shutdown shall be attributed to the beneficiaries, which had given schedule below 55% of their entitlement.
- (vi) Compensation (in terms of Rupees) shall be shared amongst the beneficiaries in the following manner:

Compensation payable by beneficiary

$$= (N_i \times A_i / \sum N_i \times A_i) \times \text{Compensation payable to ISGS}$$

Where

N_i = Number of start-ups attributable to the beneficiary

A_i = Percentage Firm share of the beneficiary

16. Following information shall be required to be submitted by ISGS for carrying out calculations outlined above

- (i) Installed Capacity on bar for each time block
- (ii) Normative values of Normative Aux. Consumption, GHR, SFC and LC to be furnished once
- (iii) Actual value of CVSF, CBPF, LPPF, LPL and LPSFI for each month and also at the end of the year.

Annexure-III(A)**Extract of relevant portion of CERC (IEGC) (Fourth Amendment)
Regulations, 2016*****Regulation 6.3 B:***

Technical Minimum Schedule for operation of Central Generating Stations and Inter-State Generating Stations:

1. The technical minimum for operation in respect of a unit or units of a Central Generating Station of inter-State Generating Station shall be 55% of MCR loading or installed capacity of the unit of at generating station.
2. The CGS or ISGS may be directed by concerned RLDC to operate its unit(s) at or above the technical minimum but below the normative plant availability factor on account of grid security or due to the fewer schedules given by the beneficiaries.
3. Where the CGS or ISGS, whose tariff is either determined or adopted by the Commission, is directed by the concerned RLDC to operate below normative plant availability factor but at or above technical minimum, the CGS or ISGS may be compensated depending on the average unit loading duly taking into account the forced outages, planned outages, PLF, generation at generator terminal, energy sent out ex-bus, number of start-stop, secondary fuel oil consumption and auxiliary energy consumption, in due consideration of actual and normative operating parameters of station heat rate, auxiliary energy consumption and secondary fuel oil consumption etc. on monthly basis duly supported by relevant data verified by RLDC or SLDC, as the case may be.

Provided that:

- (i) *In case of coal / lignite based generating stations, following station heat rate degradation or actual heat rate, whichever is lower, shall be considered for the purpose of compensation:*

S. No.	Unit loading as a % of Installed Capacity of the Unit	Increase in SHR (for supercritical units) (%)	Increase in SHR (for sub-critical units) (%)
1	85-100	Nil	Nil
2	75-84.99	1.25	2.25

3	65-74.99	2	4
4	55-64.99	3	6

- (ii) In case of coal / lignite based generating stations, the following Auxiliary Energy Consumption degradation or actual, whichever is lower shall be considered for the purpose of compensation:

Sl. No	Unit Loading (% of MCR)	% Degradation in AEC admissible
1.	85 – 100	NIL
2.	75 – 84.99	0.35
3.	65 – 74.99	0.65
4.	55 - 64.99	1.00

- (iii) Where the scheduled generation falls below the technical minimum schedule, the concerned CGS or ISGS shall have the option to go for reserve shut down and in such cases, start-up fuel cost over and above seven (7) start / stop in a year shall be considered as additional compensation based on following norms or actual, whichever is lower:

Unit Size (MW)	Oil Consumption per start up (KI)		
	Hot	Warm	Cold
200/210/250 MW	20	30	50
500 MW	30	50	90
660 MW	40	60	110

- (iv) In case of gas based Central Generating Station or inter-State Generating Station, compensation shall be decided based on the characteristic curve provided by the manufacturer and after prudence check of the actual operating parameters of Station Heat Rate, Auxiliary Energy Consumption, etc.
- (v) Compensation for the Station Heat Rate and Auxiliary Energy Consumption shall be worked out in terms of energy charges.

- (vi) The compensation so computed shall be borne by the entity who has caused the plant to be operated at schedule lower than corresponding to Normative Plant Availability Factor up to technical minimum based on the compensation mechanism finalized by the RPCs.*
 - (vii) No compensation for Heat Rate degradation and Auxiliary Energy Consumption shall be admissible if the actual Heat Rate and / or actual Auxiliary Energy Consumption are lower than the normative Station Heat Rate and / or normative Auxiliary Energy Consumption applicable to the unit or the generating station.*
 - (viii) There shall be reconciliation of the compensation at the end of the financial year in due consideration of actual weighted average operational parameters of station heat rate, auxiliary energy consumption and secondary oil consumption.*
 - (ix) No compensation for Heat Rate degradation and Auxiliary Energy Consumption shall be admissible if the actual Heat Rate and / or actual Auxiliary Energy Consumption are lower than the normative station Heat Rate and / or normative Auxiliary Energy Consumption applicable to the unit or the generating station in a month or after annual reconciliation at the end of the year.*
 - (x) The change in schedule of power under the provisions of Central Electricity Regulatory Commission (Ancillary Services Operations) Regulations, 2015 shall not be considered for compensation.*
- 4. In case of a generating station whose tariff is neither determined nor adopted by the Commission, the concerned generating company shall have to factor the above provisions in the PPAs entered into by it for sale of power in order to claim compensations for operating at the technical minimum schedule.*
 - 5. The generating company shall keep the record of the emission levels from the plant due to part load operation and submit a report for each year to the Commission by 31st May of the year.*
 - 6. NLDC shall prepare a Detailed Operating Procedure in consultation with the generators and beneficiaries at RPC forums within 2 months' time and submit to the Commission for approval. The Detailed Operating Procedure shall contain the role of different agencies, data requirements, procedure for taking the units under reserve shut down and the methodology for identifying the generating stations or units thereof to be backed down upto the technical minimum in specific Grid*

conditions such as low system demand, Regulation of Power Supply and incidence of high renewables etc., based on merit order stacking.

- 7. The RPCs shall work out a mechanism for compensation for station heat rate and auxiliary energy consumption for low unit loading on monthly basis in terms of energy charges and compensation for secondary fuel oil consumption over and above the norm of 0.5 ml/kWh for additional start-ups in excess of 7 start-ups, in consultation with generators and beneficiaries at RPC forum and its sharing by the beneficiaries.*

Relevant extract of CERC Tariff Regulation-2014

A) Regulations 30(5) of CERC (Terms and Conditions of Tariff), Regulations Coal based stations

‘(5) The energy charge shall cover the primary and secondary fuel cost and limestone consumption cost (where applicable), and shall be payable by every beneficiary for the total energy scheduled to be supplied to such beneficiary during the calendar month on ex-power plant basis, at the energy charge rate of the month (with fuel and limestone price adjustment). Total Energy charge payable to the generating company for a month shall be:

(Energy charge rate in Rs./kWh) x {Scheduled energy (ex-bus) for the month in kWh.}

(6) Energy charge rate (ECR) in Rupees per kWh on ex-power plant basis shall be determined to three decimal places in accordance with the following formulae:

(a) For coal based and lignite fired stations

$$ECR = \{(GHR - SFC \times CVSF) \times LPPF / CVPF + SFC \times LPSFi + LC \times LPL\} \times 100 / (100 - AUX)$$

(b) For gas and liquid fuel based stations

$$ECR = GHR \times LPPF \times 100 / \{CVPF \times (100 - AUX)\}$$

Where,

AUX = Normative auxiliary energy consumption in percentage.

CVPF=(a) Weighted Average Gross calorific value of coal as received, in kCal per kg for coal based stations

(b) Weighted Average Gross calorific value of primary fuel as received, in kCal per kg, per litre or per standard cubic meter, as applicable for lignite, gas and liquid fuel based stations.

(c) In case of blending of fuel from different sources, the weighted average Gross calorific value of primary fuel shall be arrived in proportion to blending ratio.

CVSF = Calorific value of secondary fuel, in kCal per ml.

ECR = Energy charge rate, in Rupees per kWh sent out.

GHR = Gross station heat rate, in kCal per kWh.

LC = Normative limestone consumption in kg per kWh.

LPL = Weighted average landed price of limestone in Rupees per kg.

LPPF =Weighted average landed price of primary fuel, in Rupees per kg, per litre or per standard cubic metre, as applicable, during the month. (In case of blending of fuel from different sources, the weighted average landed price of primary fuel shall be arrived in proportion to blending ratio)

SFC = Normative Specific fuel oil consumption, in ml per kWh.

LPSFi=Weighted Average Landed Price of Secondary Fuel in Rs./ml during the month

Provided that energy charge rate for a gas/liquid fuel based station shall be adjusted for open cycle operation based on certification of Member Secretary of respective Regional Power Committee for the open cycle operation during the month.