



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
उत्तर क्षेत्रीय विद्युत समिति
Northern Regional Power Committee

सं. उक्षेविस/वाणिज्यिक/210/वाउस(38)/2019/1938-1981
No. NRPC/ CommI/210/CSC(38)/2019/

दिनांक: 01 मार्च, 2019
Dated : 01st March, 2019

सेवा में / To,

Members of Commercial Sub-Committee (As per List)
वाणिज्यिक उप समिति के सभी सदस्य (संलग्न सूचीनुसार)

विषय: वाणिज्यिक उप-समिति की 38 वीं बैठक का कार्यवृत्त ।

Subject: 38th meeting of Commercial Sub-Committee – Minutes.

महोदय ,
Sir,

उत्तर क्षेत्रीय विद्युत समिति वाणिज्यिक की उप-समिति की 38 वीं बैठक दिनांक 14 दिसम्बर, 2018 को उक्षेविस, 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।

38th Commercial Sub-Committee meeting of NRPC was held on 14th December, 2018 at NRPC, New Delhi. A copy of the minutes of the meeting is enclosed herewith for favour of information and necessary action.

भवदीय
Yours faithfully,

(आर.पी.प्रधान)
(R.P.Pradhan)
अधीक्षण अभियंता
Superintending Engineer

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MINUTES

OF

38th MEETING OF COMMERCIAL SUB-COMMITTEE OF NRPC

The 38th meeting of Commercial Sub-Committee of NRPC was held at NRPC, New Delhi on 14th December 2018. The list of participants is enclosed at [Annexure-I](#). Member Secretary, NRPC welcomed the participants of 38th Commercial Sub-Committee meeting. While giving an overview of agenda items, he stated that several important issues viz. long outstanding dues of various utilities, metering and AMR related issues were to be discussed. He also informed that CERC had issued the 4th Amendment of Deviation Settlement Mechanism Regulations, 2014 on 20th November 2018 and the same would be implemented w.e.f. 01st January 2019. With these remarks, he requested Superintending Engineer(C), NRPC to take up the agenda for deliberation.

ITEM-1 **Confirmation of Minutes of 37th Meeting of Commercial Sub Committee of NRPC**

- 1.1 The minutes of 37th meeting of Commercial Sub-committee held on 31st August 2018 issued vide letter No. NRPC/Comml/210/CSC(37)/ 2018/ 11753-11774 dated 10th October 2018 were confirmed with minor changes suggested by NHPC Ltd., in point 4.6 and 4.7 of Agenda Item no. 4:

ITEM-2 **Presentation by NRPC Secretariat/NRLDC**

- 2.1 AEE(C), NRPC gave a presentation on the salient features of the Central Electricity Regulatory Commission (Deviation Settlement Mechanism and related matters) (Fourth Amendment) Regulations, 2018. Copy of the presentation is enclosed at **Annexure-2.1**
- 2.2 Representatives of NHPC and SJVN sought clarification on the applicability of cap rate for hydro stations.
- 2.3 Several constituents raised concern about the additional charge provisioned in case of sustained deviation for more than 6-time blocks since the penalty seemed exorbitant as per the sample calculations shown in the presentation.
- 2.4 SE(C), NRPC stated that NRPC Secretariat would be writing a letter to CERC for clarification on these issues and asked constituents to submit their issues/doubts by 19th December 2018.

ITEM-3 **Detailed procedure for reserve shutdown and compensation mechanism**

- 3.1 MS, NRPC informed that a meeting was held at CERC on 01st November

2018 regarding feedback on detailed procedure for reserve shutdown and compensation mechanism. The issue of comparison between actual SHR/APC and the SHR/APC values calculated, using the table provided in the Detailed Operating Procedure while calculating ECR (SE), was discussed in the meeting. The minutes of the meeting are still awaited.

- 3.2 He further informed that CERC would be issuing degraded SHR/APC values table for gas based generating stations shortly.
- 3.3 Representative of APCPL, Jhajjar informed that energy bills of March 2018 have been revised on account of change in LPPF, CVPF, etc. and requested for revision of compensation calculation for the period 15-05-17 to 31-03-18 due to the same. Members agreed for the same.
- 3.4 MS, NRPC urged all constituents to submit their comments on RSD procedure to NRPC Secretariat at the earliest for consideration.

ITEM-4 Billing of LTA of 8.4 MW from Lanco Green Power Pvt Ltd to Himachal Pradesh

- 4.1 MS, NRPC stated that Himachal Pradesh vide letter no GoHP/DOE/Budhil(LTA)/2018/7285-89 has informed that LTA charges of Greenko Budhil Hydro Power Ltd. to the tune of 8.4 MW have been charged on Himachal Pradesh even though it has never acquired LTA for the free power share from Greenko Budhil. He asked the representative of CTU/POWERGRID to explain the same.
- 4.2 Representative of CTU/POWERGRID informed that 70 MW LTA was granted to PTC/ Greenko Budhil (erstwhile Lanco Green) for which PTC & Greenko Budhil signed a BPTA on 18.10.2007 with CTU towards sharing of transmission charges for 61.6 MW & 8.4 MW respectively. PTC relinquished its portion of the LTA of 61.6MW which was accepted by CTU w.e.f 19.06.2018.
- 4.3 With regard to LTA corresponding to 12% free power (8.4 MW) to Himachal Pradesh, Greenko Budhil (Lanco Green) is under obligation to pay regional transmission charges as per the BPTA.
- 4.4 Billing of LTA of 8.4 MW is being done to Lanco Green only at PoC Rate of HP and same is reduced from PoC Charges of Himachal Pradesh. For the month of Sept-18, HP was billed for Rs. 197062387 whereas PoC charges as per RTA, were Rs. 198007891/-. Bill of Rs. 945503/- was raised to Lanco Green.
- 4.5 The billing for the LTA of 8.4MW has been disputed by Greenko Budhil and they have filed a petition in CERC which is yet to be disposed off by the Hon'ble Commission. Meanwhile, the billing of 8.4 MW is continued to be raised on Greenko Budhil (Lanco Green).

- 4.6 The sub-committee opined that since a petition on this matter is pending with CERC, the existing methodology being followed by CTU/POWERGRID may be continued till the petition is disposed off.

ITEM-5 Default in payment of outstanding dues and surcharge by beneficiaries

- 5.1 The details of outstanding dues of various utilities were attached in the agenda note of the meeting.

Utility	Beneficiary	Remarks
SJVNL	PSPCL	
	Govt. of HP & a/c HPSEB	Representative of SJVNL informed that a meeting was held with GoHP where modalities of payment were decided but it was still to be implemented.
	J&K	SJVNL representative informed that default notice was sent to J&K but no response has been received and thus they may opt for regulation of power.
	UPPCL	Representative of UP present in the meeting expressed his ignorance on the subject matter and stated that he would bring the matter to the knowledge of concerned authority.
THDCIL	BRPL, Delhi	Representative of THDCIL informed that from March 2018, the power share of BYPL has been shifted to BRPL. BYPL is not clearing the outstanding dues. Representative of BYPL informed that they have paid Rs 40 crore till November 2018 and payment plan for the remaining amount is being prepared by higher management.
	BYPL, Delhi	
	PDD, J&K	Since the representative from PDD-J&K was not present therefore updated status could not be ascertained. It was informed that UPPCL was not making any payment.
	UPPCL, Uttar Pradesh	
PGCIL	UPPCL	Representative of PDD-J&K and UPPCL were not present therefore updated status could not be ascertained.
	Haryana- HPPC	
	PDD, J&K	
NHPC	PDD, J&K	Representative of PDD-J&K, PSPCL and UPPCL were not present therefore updated status could not be ascertained. Representative of NHPC urged all defaulting utilities to make payment at the earliest.
	UPPCL, UP	
	PSPCL, Punjab	
	JdVVNL (Wind Power), Jodhpur	

- 5.2 The sub-committee urged all defaulting utilities to clear their dues at the earliest.
- 5.3 The sub-committee also expressed concern about non-representation of utilities having substantial outstanding dues especially UPPCL and PDD J&K.
- 5.4 SE(C), NRPC advised all utilities to take up the matter at highest level of the defaulting utilities and apprise the outcome to NRPC Sectt.

ITEM-6 Opening of Letter of Credit (LC)

- 6.1 Representatives of SJVNL, THDC, POWERGRID, PPCL and NHPC gave details of utilities who had not submitted Letter of credit of the requisite amount.

Utility/Account	Beneficiary	Remarks
SJVNL	PDD, J&K	Representative of HPSEBL stated that matter is under process with their higher management. Representative of BYPL stated that due to poor credit rating, banks are not willing to open LC. Represented of SJVNL stated that as per agreement between SJVNL and BYPL, they were supposed to open LC in due course of time. Yet, LC has not been submitted till date.
	HPSEBL	
	BRPL, Delhi	
	BYPL, Delhi	
	UPCL	
THDCIL	BRPL, Delhi	Representative of BRPL urged members to appreciate that the situation has improved in the last 1-1.5 years and they are no longer defaulting from the payment plan that they have submitted to various Gencos. LC would also be opened in due course of time.
	PDD, J&K	
POWERGRID	BRPL	Representative of BRPL and BYPL reiterated that due to poor credit rating, banks are unwilling to open LC and they would be making an effort to submit LC as soon as possible.
	BYPL	
	PDD-J&K	Representative of PDD J&K was not present in the meeting.
PPCL	PSPCL	Representative of PSPCL was not present in the meeting

6.2 Represented of SJVN suggested that there should be some penal provision in case of non-opening of LC.

6.3 Represented of BYPL stated that Rs 8,000 crore recovery is pending as regulatory assets with their State Regulatory Commission.

ITEM-7 Non-payment of LPS by the beneficiaries (Agenda by SJVN)

7.1 Representative of SJVN pointed out that the amount of late payment surcharge was being excluded by the beneficiaries while releasing the payments.

7.1 He informed that non-payment of LPS is violation of Power Purchase Agreement and CERC guidelines on the subject.

7.2 The sub-committee asked constituents to make payments against LPS while making payments in the future.

ITEM-8 Non- Payment of old standing by Rajasthan Discoms (Agenda by SJVN)

8.1 Representative of SJVN informed that Rajasthan Discoms i.e. AVVNL, JVVNL and JDVVNL were yet to clear the old outstanding of Rs 15,87,396.00, 16,71,052.00 and 12,99,453.00 respectively.

8.2 The sub-committee advised Rajasthan and SJVN to resolve the matter mutually.

ITEM-9 Non-payment of Late payment surcharge of energy bills for power

supply from PPS-III, Bawana by PSPCL (Agenda by PPCL)

- 9.1 Representative of IPGCL/PPCL informed that bill regarding late payment surcharge of Rs. 3,14,20,661 was submitted to PSPCL vide letter dated 25.09.2018. However, no response regarding clearance of surcharge was received from PSPCL.
- 9.2 The sub-committee advised PSPCL and PPCL to resolve the matter mutually.

ITEM-10 Non- payment of outstanding dues by UPCL against bills raised by CTU for 400kV S/s Srinagar and 400kV Srinagar-Srinagar PH line (Agenda by PTCUL).

- 10.1 The agenda item could not be taken up since no representative of UPCL was present in the meeting.

ITEM-11 Double Recovery of BBMB Transmission Charges by PGCIL & BBMB and follow up thereof (Agenda by HPSEBL)

- 11.1 The sub-committee was of the view that since the matter is still under consideration in CERC, the outcome of the same may be awaited before the matter is discussed again at this forum.

ITEM-12 Billing for deferred tax liability by PGCIL for the period upto 31.03.2009 (ULDC portion) materialized during FY 2011-12 & Release of payment under protest by HPSEBL (Agenda by HPSEBL)

- 12.1 Representative of HP urged POWERGRID to submit the desired information and clarification on the excess payment as claimed by HPSEBL.
- 12.2 Representative of POWERGRID stated that the matter has been taken up with their finance department. He stated that complete information would be provided to HPSEBL by 3rd-4th week of January following which they can hold a bilateral meeting. Excess payment, if any, would be refunded. The sub-committee agreed for the same.

ITEM-13 Regarding the New Web Based Scheduling Application of NRLDC. (Agenda by Delhi SLDC)

- 13.1 Representative of Delhi SLDC stated that there were some issues with New WBSA regarding STOA transaction., PoC losses, etc. and urged NRLDC to resolve the same.
- 13.2 Representative of NRLDC stated that there were some minor issues in STOA transactions of Shiva Alloy which has now been corrected.

- 13.3 Representative of Delhi SLDC urged NRLDC to show the figure of PoC losses on their website as was being done before implementation of new WBSA. Representative of NRLDC agreed for the same.

ITEM-14 Regarding the data required from New NRPC website (Agenda by Delhi SLDC)

- 14.1 Representative of Delhi SLDC requested NRPC Sectt. to host block-wise data of Delhi's surplus power booked by other states/beneficiaries through URS on the new NRPC website.
- 14.2 SE(C), NRPC assured that the needful would be done as soon as new data sharing portal becomes operational.
- 14.3 Representative of Delhi SLDC urged NRPC Sectt. to coordinate with ERPC so that block-wise data of Delhi's surplus power in ER stations, booked by other states/beneficiaries through URS, can also be provided to Delhi SLDC in a timely manner.
- 14.4 SE(C), NRPC stated that the matter would be taken up with ERPC Sectt.

ITEM-15 Payment of variable charges against RRAS UP regulation and payment of interest charges due to delay in payment under RRAS (Agenda by NTPC)

- 15.1 Representative of NTPC stated that even though NRPC has been issuing the weekly accounts of RRAS, payments only up to week 26 of FY 2018-19 have been received till date. Payments since week no.-27 amounting to Rs. 535.78 Cr on account of RRAS UP Regulation have not yet been received by NTPC.
- 15.2 SE(C), NRPC stated that it has been observed that NR pool account does not have sufficient surplus due to which the payments are getting delayed. Since RRAS regulations allow payment to RRAS providers through regional pool accounts of other regions in case the regional pool of a particular region does not have sufficient funds, he urged NRLDC/NLDC to explore the possibility of the same.
- 15.3 Representative of NTPC proposed that possibility of using funds from some other source may be explored for making payment to RRAS providers since they are already paying the fixed charge reimbursement to the original beneficiaries and not getting any payment from the regional pool.
- 15.4 ED, NRLDC stated that proposal of using surplus funds of other regions has already been taken up with NLDC. He added that in case of any delay in payment, the RRAS providers would be entitled for interest charges for the delayed period as per the RRAS regulations.

ITEM-16 Certification of open cycle generation for NTPC Gas stations (Agenda by

NTPC)

- 16.1 SE(C), NRPC stated that NRPC Sectt. has issued certificates of open cycle generation for NTPC up to May' 18. NTPC has further submitted data till September'18 and the certification of the same would be done as soon as possible.

ITEM-17 Formation of Committee for Analyzing Scheduling of RRAS during High Grid Frequency (Agenda by UP SLDC)

- 17.1 Since no representative of UP SLDC was present in the meeting, the sub committee decided to defer the agenda item for the next meeting.

ITEM-18 Status of DSM Charges:

- 18.1 The sub-committee noted the information and advised all payable utilities to clear the outstanding dues at the earliest to avoid further increase of delay payment Interest.

ITEM-19 Status of Letter of Credit (LC) against Deviation Charges delayed payment:

- 19.1 Representative of HP stated that from 03rd December 2018, HP SLDC would be the nodal agency for settling DSM account and LC would be provided by them. HPSEBL would be withdrawing their LC after that period.
- 19.2 The sub-committee urged defaulting entities to open the LC against Deviation Charges as per the Regulations of CERC.

ITEM-20 Reactive Energy charges status

- 20.1 The sub-committee urged all payable constituents to release outstanding RE charges payments at the earliest so that receivable parties can be paid and to avoid further increase of Delay payment Interest.

ITEM-21 Congestion Charges: -

- 21.1 Representative of Delhi SLDC stated that there was a mismatch in receivable amount mentioned in the congestion accounts issued by NRPC and the actual amount received from NRLDC during some of the weeks of FY 2014-15 and FY 2015-16. As per congestion account of week 39 of FY 2014-15, Delhi was supposed to receive Rs 1.50 crores, but it actually received Rs 40 lakh less after receivable amount and payable amount were equated. Delhi SLDC made further payment of Rs 1.50 crores to its Discoms under the impression that Rs 40 lakh would be received in due course. Future payments were made accordingly which has resulted in interest charge on Delhi SLDC, and urged that the same may be waived off.

- 21.2 Representative of HP stated that their outstanding dues are because of interest charge due to a similar case.
- 21.3 SE(C), NRPC stated that prima-facie, the mistake seems bonafide but a view regarding the same may not be taken at this stage. The matter is being looked into by NRPC Sectt..

ITEM-22 NRLDC Fee & Charges:

- 22.1 The sub-committee urged all users to make timely payment of RLDC Fees and Charges and also provide the information as per the format given in the agenda for easy reconciliation.

ITEM-23 Inter State Transmission losses in NR:

- 23.1 Members noted the information

ITEM-24 Status of AGC & Ancillary Services:

- 24.1 Members noted the information.

ITEM-25 Reconciliation of NRLDC Fee and charges:

ITEM-26 Reconciliation of Deviation Account:

ITEM-27 Reconciliation of RE Account:

- 27.1 Representative of NRLDC urged all entities to verify the reconciliation statements and send the duly signed copy of the same. In case of non-receipt of any communication within one week from commercial sub-committee meeting, it will be presumed that statement stands reconciled.

ITEM-28 STOA Rates of State Network in Northern Region:

- 28.1 The sub-committee requested states to intimate the latest STOA charges to NRLDC via e-mail and Phone.

ITEM-29 Reconciliation of STOA (Short Term Open Access) Charges disbursement:

- 29.1 Representative of NRLDC requested all entities to verify the Reconciliation statements and send the duly signed copy as a normal practice. In case of non-receipt of any communication within one week from commercial sub-committee meeting, it will be presumed that statement stands reconciled.

ITEM-30 TDS Certificates against STOA Charges:

- 30.1 Representative of NRLDC requested applicants to submit the TDS details Monthly & Quarterly as per formats available in NRLDC website.

ITEM-31 Information of Deviation/reactive payment in NR pool account:

- 31.1 Representative of NRLDC requested payable utilities to intimate the details of payment being made by them in the format given in the agenda.
- 31.2 Members noted the information.

ITEM-32 STATUS of AMR as on 27.11.2018

- 32.1 Representative of POWERGRID informed that LOA for installation and commissioning of AMR system for Northern Region was awarded by POWERGRID to M/s Kalkitech in February 2012. M/s Kalkitech has completed integration of AMR with L&T meters at most of the locations. However, there have been several issues with integration of AMR with Elster make meters which has been pending for the past 1-1.5 years.
- 32.2 Testing for integration of Elster meter with AMR was done at Bahadurgarh PG S/S and the npc file was shared with NRLDC on 20-10-18. However, the results were found unsatisfactory. It was found that there were differences in readings of the meter, received through AMR and DCD in some blocks.
- 32.3 Subsequently, POWERGRID has issued a notice of default to M/s Kalkitech and they have been exploring other options to complete the remaining work.
- 32.4 SE(C), NRPC enquired about the penal provisions in the contract agreement. Representative of POWERGRID informed that the same are being looked into for initiating appropriate action.
- 32.5 The sub-committee expressed concern regarding non-receipt / delay in availability of meter data from many locations as the same is required for calculation of losses and preparation of weekly regional energy account. Non-availability of data from so many stations is making it difficult for NRLDC to process the meter data for loss calculation and timely submission of data to NRPC for preparation/issuance of weekly energy accounts. POWERGRID was urged to co-ordinate with all stakeholders to ensure smooth implementation of AMR and to ensure that meter data from all sites are regularly provided to NRLDC by every Tuesday

ITEM-33 AMR data through Fibre Optic Network

- 33.1 Representative of POWEGRID informed that communications through optical fibre link at 24-25 locations of POWERGRID have been configured till date and balance shifting work on OPGW is in progress to connect around 70 locations of POWERGRID.
- 33.2 He further stated that in 37th Commercial Committee meeting, POWERGRID was asked to intimate the estimated cost implication for shifting of AMR data on OPGW network at other locations. It was also decided that all utilities, in whose premises the meters are installed, should submit data in format

circulated along with agenda note of the 37th CSC meeting, to POWERGRID for estimation of cost and feasibility of migration of AMR system from GPRS to Fiber Optic. However, no communication has been received from utilities in this regard.

- 33.3 The sub-committee requested all concerned utilities to submit the data in the requisite format to POWERGRID, so that POWERGRID can prepare estimated cost. POWERGRID was advised to submit the estimated cost at the earliest so that it can be put up before TCC and NRPC for approval.

ITEM-34 Integration of AMR System with Elster Meters:

- 34.1 Covered under item 32.

ITEM-35 Failure of AMR Servers (both Main & Standby) at NRLDC

- 35.1 ED, NRLDC stated that on 23rd November 2018, M/s Kalkitech representative informed that their standby server has failed and they are not able to get meter data. When NRLDC enquired about the main server status, M/s Kalkitech representative replied that the main server is out of order since long and they were operating with only server since long time. Considering the criticality of the AMR system, he requested POWERGRID to take up the matter with M/s Kalkitech to ensure healthy operation of both the servers and timely submission of meter data for preparation of weekly energy account.
- 35.2 Representative of POWERGRID informed that as a temporary arrangement, one server has been despatched to NRLDC and the matter was being addressed as a priority.
- 35.3 The sub-committee expressed concern regarding failure of AMR servers and requested POWERGRID to ensure that proper AMC (including replacement of parts) with OEM is in place, so that such type of situation does not arise in future and the near 100% availability of AMR servers is maintained.

ITEM-36 Time drift Correction in SEMS:

- 36.1 Representative of NRLDC informed that NRLDC is regularly uploading the discrepancy report on weekly basis indicating the likely time drift in meters and also replacement/rectification required in special energy meters. All constituents in whose premises the meters are installed are required to take corrective action for time correction based on the weekly discrepancy and submit compliance report of the same. However, NRLDC is yet to receive the compliance report from them except POWERGRID, BBMB, NTPC, NPCL, DTL, PUNJAB and NHPC.
- 36.2 Representative of POWERGRID stated that the number of SEM meters indicated which require time correction as indicated by NRLDC seem to be on a higher side. POWERGRID is regularly monitoring time drift in all its meters

- 36.3 ED, NRLDC informed that time drift in meters is calculated by checking frequency code of the meters.
- 36.4 Representative of Rajasthan stated that they have already submitted a list of meters to POWERGRID, which need to be replaced.
- 36.5 Representative of NHPC stated that out of 9 meters installed at NHPC premises which require time drift correction, 8 are located at Uri-II. Multiple efforts have been made to correct the time drift, however whenever DCD is attached the meters get hanged. He requested that POWERGRID may be advised to ensure correction of time drift or the meters may be got replaced.
- 36.6 The sub-committee requested all utilities to ensure the time correction of the SEMs in their respective premises and submit the report to NRLDC. POWERGRID was urged to ensure time drift correction through AMR system and replacement/rectification of faulty meters as per details given by utilities/NRLDC.

ITEM-37 Replacement/Rectification of SEM meters:

- 37.1 Covered under item 36.

ITEM-38 Installation of SEM at HV side of 66/11KV transformers at NFL Plant.

- 38.1 The agenda item could not be taken up since no representative of Punjab was present in the meeting

ITEM-39 Nomination of nodal officer:

- 39.1 Representative of NRLDC informed that nodal officer details from NTPC, NHPC, Rajasthan and BBMB have been received. Details from other utilities is still pending.
- 39.2 The sub-committee again requested all members again to kindly nominate one nodal officer for proper coordination for all metering related issues.

ITEM-40 Incorrect BTPS billing methodology for relief on account of Change in Law for BTPS Stage-II (2 x 210 MW) (14/MP/2017) during the period 07.11.2016 to 14.03.2017 (Agenda by BYPL)

- 40.1 Representative of BYPL stated that BYPL has three main issues regarding the billing methodology adopted by NTPC with regard to BTPS which have been highlighted in the agenda note of the meeting. Firstly, NTPC has raised bills for BTPS even though Delhi SLDC has not certified the DC of BTPS for the said period. Secondly, CERC had directed NTPC to recover the part of capacity charges like O&M and interest on loan, whereas NTPC has raised the full fixed cost bill. Thirdly, CERC had not stated that interest charges on recoverable amount may be levied, but NTPC has levied the interest charges

which is not in line with Order issued by CERC.

- 40.2 Representative of Delhi SLDC stated that the case is under consideration with their legal department and they would be issuing the certified DC as soon as they get go ahead from them.
- 40.3 Representative of NTPC informed that they received a letter from BYPL raising these issues on 12th December 2018 only. Since this is a bilateral issue, NTPC may be given some time to respond to BYPL.
- 40.4 The sub-committee asked BYPL to give NTPC sufficient time for responding to their queries. In case the issue is not resolved, the same may be taken up again in the next meeting.

ITEM-41 Issuance of Compensation statement by NRPC for NR plants as per CERC order (Agenda by BYPL)

- 41.1 Representative of BYPL informed that Gencos like NTPC and APCPL have been billing compensation charges since May'2017 as per their own calculation. However, NRPC has not been issuing monthly compensation statement of NR stations whereas other RPCs like ERPC are issuing the same on their website for respective generator liable for compensation. He requested NRPC to prepare and issue the compensation statement similar to other RPCs.
- 41.2 SE(C), NRPC informed that final REAs along with compensation statements are pending since April 2018 and the same would be issued shortly.

ITEM-42 National Energy Accounting and National Deviation Pool Account

- 42.1 MS, NRPC informed that a proposal of preparation and issuance of National Energy Account (NEA) for inter-regional and inter-national energy transactions by NPC Secretariat was discussed in the 8th NPC meeting held on 30th November 2018. In the meeting it was decided that before bringing such proposal at NPC level, the proposal should be discussed in the RPC forum in each region.
- 42.2 Members were requested to submit their comments on the agenda note which would be discussed in the upcoming NRPC meeting.

After completion of regular agenda items, Representative of SJVNL informed that SJVN has secured 900 MW Arun-3 HEP located on Arun river in Nepal. Letters to all stakeholders for giving their consent for purchase of power from Arun-3 and signing of PPA have already been sent. He requested all utilities to expedite the matter and take necessary action in this regard

DATE AND TIME OF THE NEXT MEETING

The date and venue of next (39th) meeting of the Commercial Sub-committee will be intimated later.



Deviation Settlement Mechanism

NORTHERN REGIONAL POWER COMMITTEE



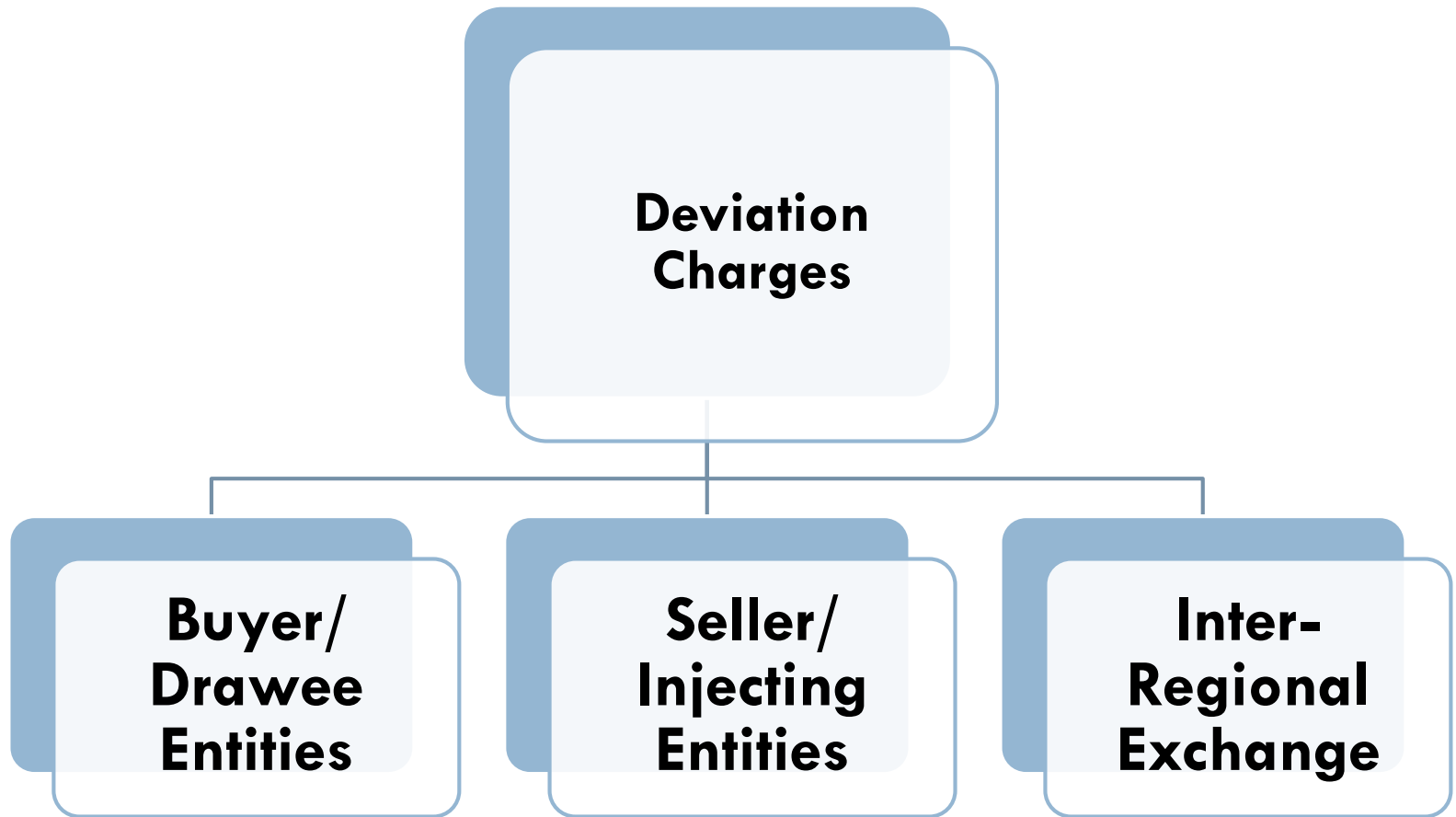


CERC DSM 4th Amendment

- Issued on 20th November 2018
- To come into force w.e.f 01.01.2019
- Major Changes:
 - ▣ Frequency band narrowed down to **49.85-50.05**
 - ▣ **DSM price vector** to be **linked to** price discovered in day ahead **energy market**
 - ▣ **Cap Rate for all Generating Stations**
 - ▣ ~~Additional charge~~ when total deviation in a day $> 3\%$ of schedule for drawee entities or 1% for injecting entities
 - ▣ **Additional surcharge** in case in the event of sustained deviation in one direction for more than 6 time blocks



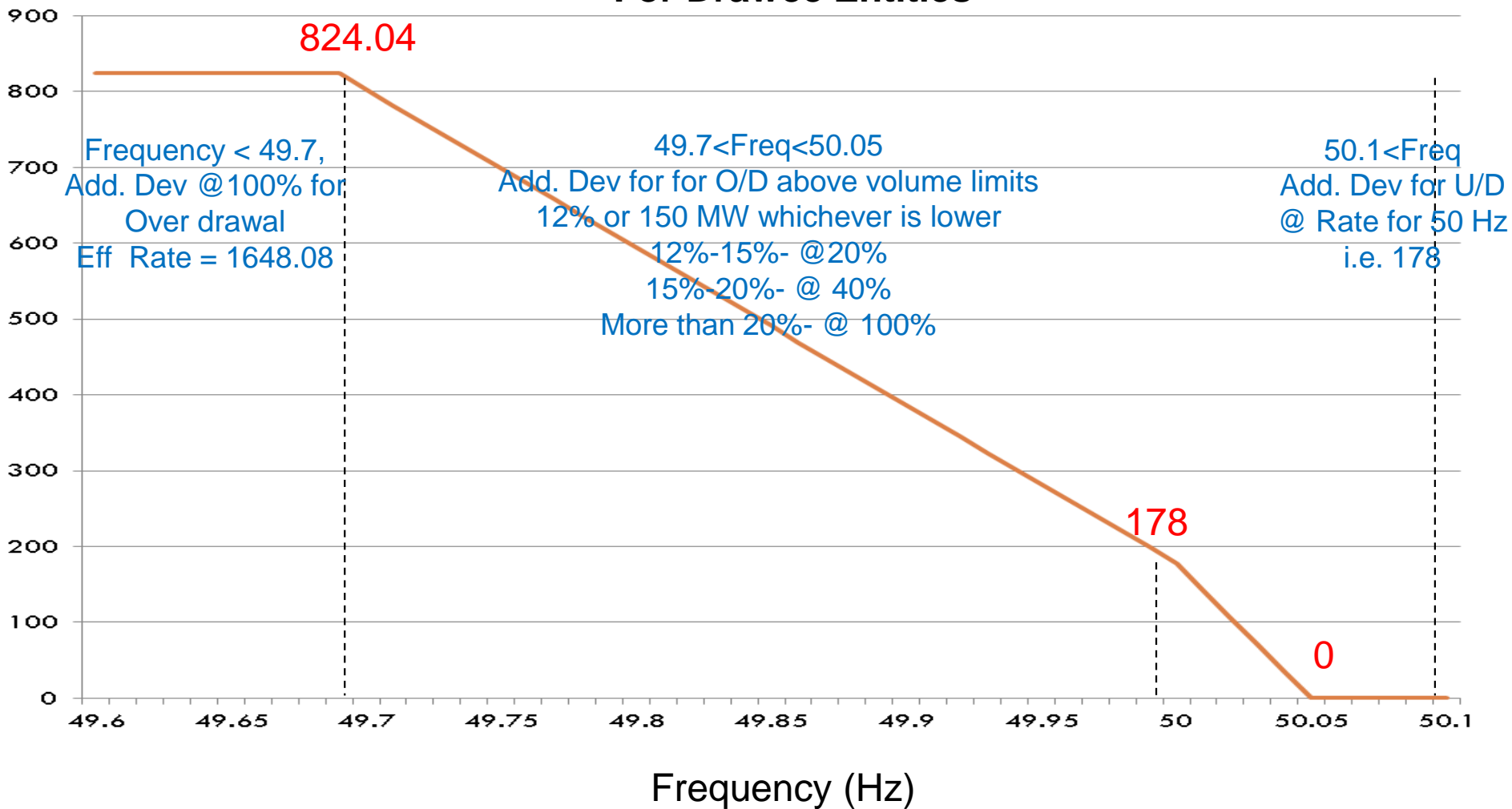
Deviation Settlement Mechanism





Base and Additional DSM Charges- Existing

For Drawee Entities





New Base DSM Charges

- The DSM rate vector will have a **dynamic slope**.
- Daily average Area Clearing Prices (**ACP**) in the day-ahead market shall be used as the basis for market linked DSM **price at 50 Hz**.
- DSM rate vector shall be determined by joining the identified price points at 50 Hz (daily simple average ACP), frequency of 49.85 Hz (Rs. 8 per unit) and 50.05 Hz (zero) on a daily basis.

Average Frequency of the time block (Hz)		Charges for Deviation (paise/kWh)
Below	Not below	
	50.05	0.0
50.05	50.01	Slope determined by joining price at 50.05 and 50 Hz
50.01	50	Daily average ACP of DAM (Capped at 800.0)
50	49.85	Slope determined by joining price at 50 and 49.85 Hz
49.85		800.0



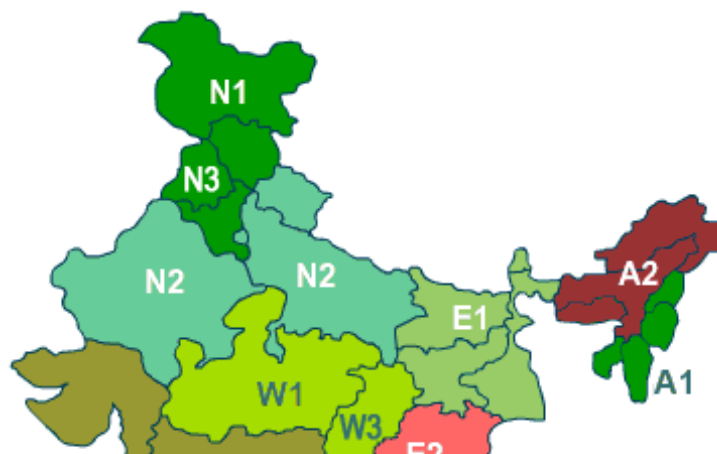
New Base DSM Charges

- Day-ahead market price of **Power Exchange** having a market share **> 80%** in energy terms on a daily basis.
- If there is **no single Power Exchange** having a market share **80%** or more, the **weighted average** day-ahead price shall be used for determining the DSM price.
- In case of non-availability of daily simple average ACP due to **no-trade on a given day**, daily simple average **ACP of the last available day** shall be considered for determining the DSM charge.
- Deviation price shall be **rounded off** to nearest **two decimal places**.
- The National Load Despatch Centre (**NLDC**) shall act as the **Nodal Agency to declare the daily DSM rates** and shall display all relevant information on its website.



New Base DSM Charges

NR is divided into 3 bid areas



Drawee Entity	N1	N2	N3
States (8+1)	J&K, HP, Chandigarh, Haryana (4)	UP, Rajasthan, Uttarakhand, Delhi (4)	Punjab (1)
PG HVDC Substations (6)	PG-Kurukshetra (1)	PG-Dadri, Agra, Ballia, Rihand, Bhiwadi (5)	<div style="border: 1px solid black; background-color: #00AEEF; color: white; padding: 5px; text-align: center;"> Drawal points in multiple states </div>
Others (3)		Railways (1)	



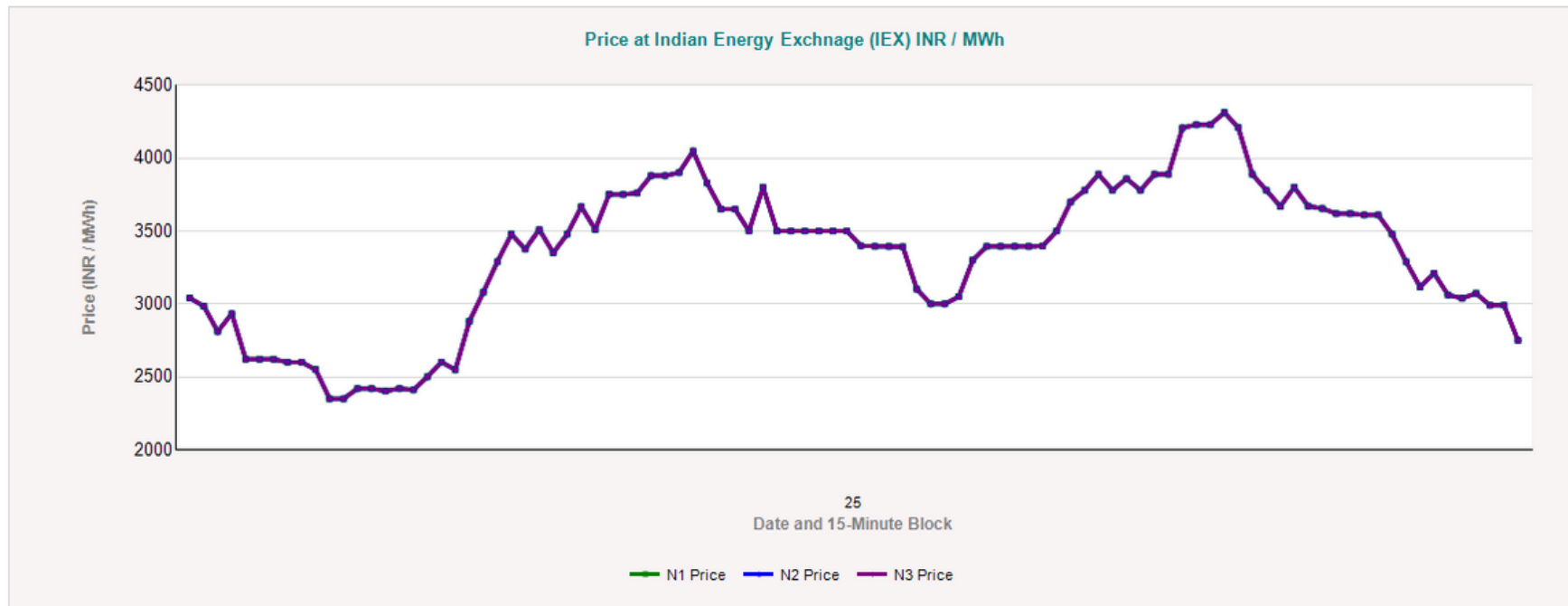
DSM Price Vector-Illustration

□ IEX rates for date 25.11.2018

Max = 431.28

Min = 235.02

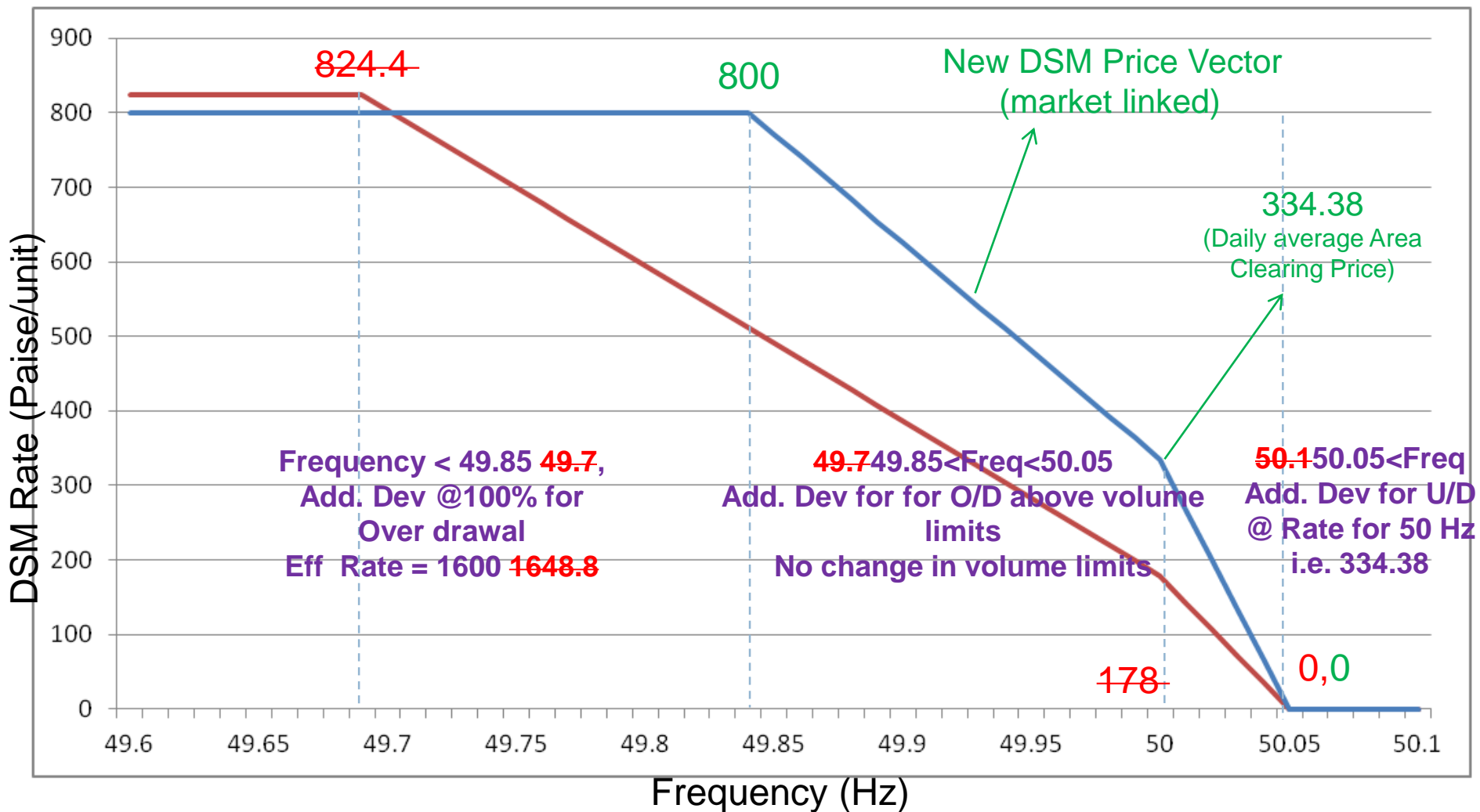
ACP = 334.38





DSM Price Vector-Illustration

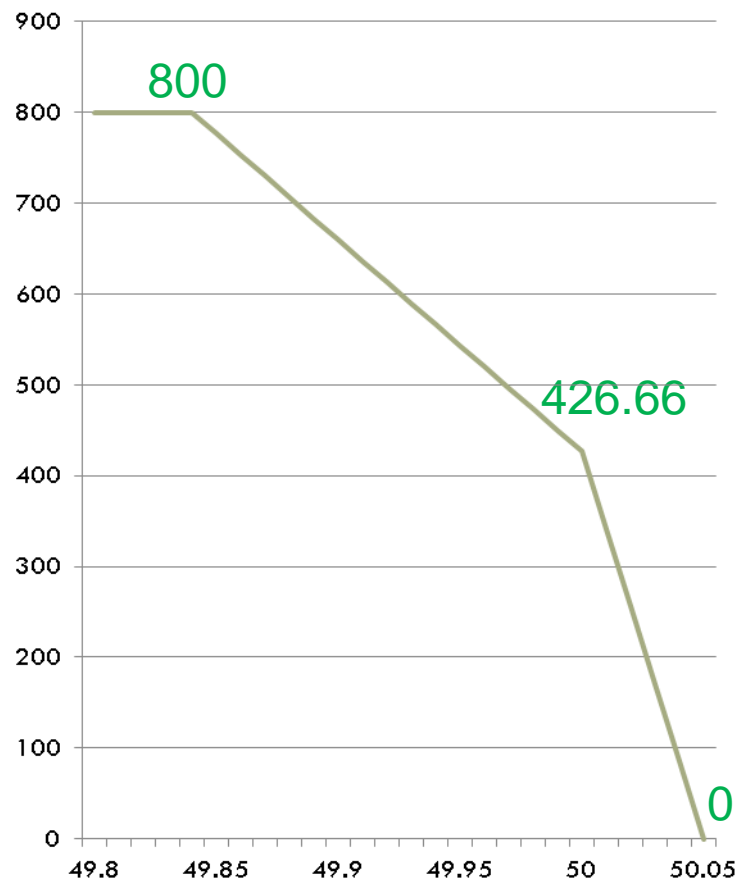
Date 25.11.2018





DSM Price Vector-Illustration

DSM price vector



For Date 09/07/2018

Frequency	Old Rate	New Rate	Frequency	Old Rate	New Rate
49.65	824.4	800	49.86	469.76	753.33
49.66	824.4	800	49.87	448.92	730
49.67	824.4	800	49.88	428.08	706.67
49.68	824.4	800	49.89	407.24	683.33
49.69	824.4	800	49.9	386.4	660
49.7	803.02	800	49.91	365.56	636.66
49.71	782.36	800	49.92	344.72	613.33
49.72	761.52	800	49.93	323.88	590
49.73	740.68	800	49.94	303.04	566.66
49.74	719.84	800	49.95	282.2	543.33
49.75	699	800	49.96	261.36	520
49.76	678.16	800	49.97	240.52	496.66
49.77	657.32	800	49.98	219.68	473.33
49.78	636.48	800	49.99	198.84	449.99
49.79	615.64	800	50	178	426.66
49.8	594.8	800	50.01	142.4	341.33
49.81	573.96	800	50.02	106.8	256
49.82	553.12	800	50.03	71.2	170.66
49.83	532.28	800	50.04	35.6	85.33
49.84	511.44	800	50.05	0	0
49.85	490.6	776.67			



DSM Price Vector- Illustration

Rajasthan (09/07/2018)	Present DSM	Draft 4 th Amendment
Schedule (LUs)		721.50454
Actual (LUs)		748.11328
Capped Deviation (Lakh)	67.03231	131.02764
Additional Deviation (Lakh)	14.87196	29.76801

- For FY 2017-18, avg DSM rate would've increased from Rs 2.4/unit to Rs 4.03/unit.

NET DEVIATION CHARGES

= ADJUSTED DEVIATION AMOUNT + CAPPED DEVIATION AMOUNT + ADDITIONAL DEVIATION AMOUNT + ADDITIONAL CHARGE + ADDITIONAL SURCHARGE



Additional Charge

□ New Proviso to Clause 1 of Regulation 7

“Provided also that from a date not earlier than one year as may be notified by the Commission, the total deviation from schedule in energy terms during a day shall not be in excess of 3% of the total schedule for the drawee entities and 1% for the generators and additional charge of 20% of the daily base DSM payable / receivable shall be applicable in case of said violation”

□ Additional Charge = Capped Deviation × 0.2
= Rs 26.2 Lakh (in previous illustration)
(Total Deviation ~ 3.75%)



Additional Surcharge

- Clause (10) of Regulation 7 substituted as
*“In the event of **sustained deviation** from schedule in **one direction** (positive or negative) by any regional entity, such **regional entity** (buyer or seller) shall have to **make sign** of their deviation from schedule changed, **at least once, after every 6 time blocks.**”*
- Similar provision for 12 time blocks in existing regulation, but no provision of penalty.
- Violation of the requirement under this clause shall attract an **additional surcharge of 20%** on the **daily base DSM** payable / receivable as the case may be.



Additional Surcharge

OD/UD	OD	OD	OD	OD	OD	OD	OD	OD	OD	OD	OD	OD	OD	UD	UD	OD	UD
Successive OD/UD counts	1	2	3	4	5	6	7	8	9	10	11	12	13	1	2	1	1
Violations							V						V				

- Entity starting from time block T1, should change the sign after time block T6.
- Sign change between T7 to T12- one violation.
- Sign change between T13 to T18- two violations
- Additional Surcharge

$$= \{\text{Capped Deviation} \times 0.2\} \times \text{No. of such violations}$$
- In case of run of river projects without pondage, payment of additional charge for failure to adhere to sign change requirement shall apply from such date as may be notified by the Commission. Such generators shall, however, be required to follow the sign change requirement and report to POSOCO the reasons for non-adherence to the requirement



NET DEVIATION CHARGES

Rajasthan (09/07/2018)	Present DSM	4 th Amendment (6 violations)
Schedule (LUs)	721.50454	
Actual (LUs)	748.11328	
Capped Deviation (Rs Lakh)	67.03231	131.02764
Additional Deviation (Rs Lakh)	14.87196	29.76801
Additional Charge (Rs Lakh)	Nil	26.20553
Additional Surcharge (Rs Lakh)	Nil	157.2332
Total*	81.90427	344.23438

*Excluding Adjusted Deviation Amount from Nuclear Plants



Future Developments

- Frequency band to be further narrowed to **49.90-50.05**
- Different Deviation Price Vector for each time block
- **5 minute scheduling**



THANK

YOU.!!!

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