

NORTH EASTERN REGIONAL POWER COMMITTEE
SHILLONG

Agenda for 24th Commercial Committee Meeting

Date & Time : 10th March 2015 at 10:00 Hrs

Venue : Guwahati

1. Confirmation of the minutes of 23rd CC meeting held on 25/11/2014 at Agartala.

Minutes of the 23rd CC Meeting held at Gitanjali Guest House, Agartala on the 25th November 2014 was circulated vide No.: NERPC/COM/CC_Min/2014/3427-65 dated 16th December 2014.

No observation has been received and minutes may be confirmed.

2. Agenda items from NERPC

2.1 Tabulation of revenue earned through regulation of power to beneficiary states of NER:

Concerned utilities are to submit the required information in the format given below.

Financial Year : e.g. 2012 - 2013										
Regulating Entity:	Generating station from where regulation is done	Quantum of regulated power (in MWH)	Mode of sale of regulated power (through exchange or through traders or UI etc)	Total revenue earned from sale of regulated power (In Rs.)	Detail of expenditure incurred towards (a)adjustment of energy charges (b)registration fee for exchanges or traders' fee etc (c) Any other incidental expenses with detail (In Rs.)			Amount of outstanding dues of the Regulated Entity. (In Rs.)	Amount adjusted against the outstanding dues of the Regulated Entity (In Rs.)	Remaining amount, if any, to be passed on to the Regulated Entity (In Rs.)
(1)	(2)	(3)	(4)	(5)	(6)			(7)	(8)	(9)=(5)-(6)-(8)
					(a)	(b)	(c)			

NOTE: If (9) is negative, then it indicates that outstanding due has not been recovered fully.

NHPC is requested to submit the details of revenue earned through regulation of power supply to MeECL on monthly basis.

2.2 Contribution to the Board Fund of NERPC:

Board Fund Contribution status/details of constituents (as on 04.03.15) are as given below:

Constituents	FY 2011-12	FY 2012-13	FY 2013-14	FY 2014-15
NTPC	Payment Received	Payment Received	Payment Received	Payment Received
NHPC	Payment Received	Payment Received	Payment Received	Due
PTC	Payment Received	Payment Received	Payment Received	Payment Received
NVVN	Payment Received	Payment Received	No Record	Due
OTPC	Payment Received	Payment Received	Payment Received	Payment Received
NEEPCO	Payment Received	Payment Received	Due	Due
PGCIL	Payment Received	No Record	Payment Received	Due
Nagaland	Payment Received	Payment Received	Payment Received	Payment Received
MeECL	Payment Received	Payment Received	Payment Received	Payment Received
Mizoram	Payment Received	No Record	Payment Received	Payment Received
Ar. Pradesh	Payment Received	No Record	Payment Received	Due
TSECL	Payment Received	Payment Received	Payment Received	Payment Received
Manipur	No Record	No Record	No Record	Due
Assam	No Record	No Record	No Record	Payment Received

No Record = Payment details not available with NERPC due to non intimation or nonpayment by constituents. Kindly intimate payment details if paid already (format given below), otherwise kindly contribute for the same under intimation to NERPC Secretariat.

Name of Constituents				
F.Y	Amount (in Rs.)	Mode of Payment (Cash/Cheque/DD/NEFT/RTGS etc)	Date	Remarks/Cheque No./DD No./UTR No./other details
2011-12				
2012-13				
2013-14				
2014-15				

2.3 Payment of transmission charges for drawal of start-up power and injection of infirm power by generating stations:

Transmission charges payable by generators which are drawing start-up power or injecting infirm power are not captured in the Regional Transmission Deviation Account (RTDA) while transmission charges

are to be paid by them corresponding to actual injection or withdrawal. Since the approved injection or withdrawal for such generators would be zero, the deviation charges are to be paid at 1.25 times the injection/ withdrawal PoC Charges.

A letter from NLDC has been received requesting to include the transmission charges in RTDA.

Members may like to deliberate.

2.4 **Payment Mismatch in schedule of REA and schedule of deviation account:**

Constituents often raise observation why there is a difference between schedule of REA and schedule of deviation account. A block sample is provided below for clarification and further deliberation if any. Date :01-02-2015 Block No: 79

	KAT	RANG	LOK	KHAN	KOP	KO-2	DOY	RCN	PAL
DC	150	220	70	40	90	19	50	82	352
AP	8.87	41.07	3.60	1.76	4.86	1.18	3.53	5.20	10.67
AS	83.21	93.10	19.93	22.10	47.19	9.75	21.40	36.58	116.36
MAN	11.88	17.97	20.43	2.57	6.51	1.29	3.86	6.65	19.60
MEG	12.35	18.68	21.17	2.67	6.77	1.34	4.00	6.91	36.86
MIZ	7.81	12.07	3.39	1.52	3.99	1.10	2.53	4.72	10.27
NAG	8.22	11.06	4.28	2.52	5.24	1.03	8.64	4.16	12.64
TRI	10.69	17.00	8.37	2.39	5.66	1.83	3.63	13.85	92.01
Total	144.72	212.24	59.25	38.6	86.81	18.32	48.39	68.53	294.01
Excg	0	0	8.63	0	0	0	0	0	16.9

Note: -

- 1) 100 % regulation is implemented by NHPC to Meghalaya
- 2) 100 % regulation is implemented by NHPC to Meghalaya
- 3) Generators will recover energy charges corresponding to the total energy from beneficiaries.

	KAT	RANG	LOK	KHAN	KOP	KO-2	DOY	RCN	PAL	Excg	Total
AP	8.56	39.65	3.48	1.70	4.69	1.14	3.42	5.02	10.30		
AS	80.32	89.87	19.30	21.34	45.55	9.41	20.72	24.72	112.33		
MAN	11.88	17.97	20.43	2.57	6.51	1.29	3.86	6.65	19.60		
MEG	17.24	24.62	0.00	6.56	15.17	2.52	5.59	9.41	36.86		
MIZ	7.81	12.07	3.39	1.52	3.99	1.10	2.53	4.72	10.27		
NAG	8.22	11.06	4.28	2.52	5.24	1.03	8.64	4.16	12.64		
TRI	10.69	17.00	8.37	2.39	5.66	1.83	3.63	13.85	92.01		
Total	144.72	212.24	59.25	38.6	86.81	18.32	48.39	68.53	294.01		

For information of members.

2.5 **Metering Issues:**

During the Special Metering meeting held on 22.01.2015, the Sub-committee discussed the issue in details and decision is as given below:

1. Distribution of 35 SEMs and 10 DCDs already procured was agreed as per **Annexure- (I)**. After distribution, balance will be kept as spares.
2. Regarding procurement of 50 SEMs and 10 DCDs urgently, it was agreed not to procure on repeat order basis from ELSTER. Rather, POWERGRID NERTS was advised to obtain these meters/DCDs from other Regions at the earliest preferably by March, 2015. These meters will be used to replace time drifted meters as listed in **Annexure- (I)** footnote and also to install check meters in ISGS.
3. Technical specification for new procurement of 250 SEMs was finalised (**Annexure- (II)**). After detailed discussion, M/S Secure Meters, L&T and Wallaby were identified as shortlisted suppliers. POWERGRID NERTS will procure meters at the quickest possible time say within six months.
4. It was agreed to go for procurement of LAPTOPs instead of DCDs. Hence, there will be procurement of 40 LAPTOPs instead of 40 DCDs. Additionally, 20 DCDs will be procured to act as spare of existing DCDs.
5. DCD was not given to NTPC Bongaigaon. It was agreed to provide them DCD latest by 31.01.2015.
6. Time drift in meters was highlighted by NERLDC which was causing unwanted fluctuation in pool loss. It was agreed that all constituents while collecting weekly reading would note time drift position and provide time advance/retard command to avoid drift. Meters with large drift will be replaced as noted in point no. 2.
7. Error in meter reading : It was decided that POWERGRID NERTS will attend following at the earliest :
 - 132 KV Balipara-Gohpur line : Meter error in Balipara end
 - 132 kV Imphal-Ningthoukong (very low reading at Ningthoukong end)
 - 132 kV Nirjuli-Gohpur (Low reading at Nirjuli end)
 - 220 kV Kathalguri – Tinsukia II (Tinsukia end reading >50%)
8. It was agreed that pre-commissioning check of all meters would be done by NERTS, POWERGRID and proper store inventory be maintained by them. Stock position should be submitted to NERLDC/NERPC on regular basis.
9. It was agreed that AMR (Automated meter reading) scheme will be implemented in NER expeditiously and cost of same will be recovered by POWERGRID through tariff. POWERGRID was advised to submit cost estimate in next OCC/CCM.

During the 106th OCC meeting, NERTS informed that the tentative cost of AMR is Rs. 1.72 Crore only.

NERTS is requested to update the status of follow-up action on above decisions including procurement of meters and Laptops/Notepads as agreed in earlier meetings and also status of replacement of meters, spare meters etc.

3. Agenda items from NHPC

3.1 *Payment of Deviation and Additional Deviation charges:*

It has been observed that UI/Deviation charges are not released in time along with the interest on delayed payments. NHPC is making timely payment of UI/ Deviation charges (as payable by NHPC) despite the fact that net effect of payable and receivable is actually receivable to NHPC. It is therefore requested to timely release the UI/Deviation charges, as receivables to NHPC.

3.2 *Outstanding dues of NHPC for more than 60 days:*

MeECL, Meghalaya: - As on date, an amount of ` 18.23 Crs (Including surcharge of ` 3.51 Crs) is outstanding for more than 60 days. Meghalaya is not liquidating the outstanding dues even after regulation of power w.e.f 23.01.2014. A MOM was signed between MeECL & NHPC on 07.08.2014 and MeECL made a commitment for liquidation of outstanding dues including surcharge in installments but MeECL did not adhere to its commitment.

MeECL, Meghalaya may be impressed upon to liquidate their outstanding dues.

3.3 *Signing of PPA & BPSA*

(i) *Signing of Power Purchase Agreement (PPA) in respect of Tawang-I & II H.E.Projects in Arunachal Pradesh:-*

Draft PPA have been sent to Assam, Manipur, Meghalaya, Tripura, Arunachal Pradesh & Mizoram on 24.09.2014 for early signing of PPA in respect of Tawang-I & II H.E.Projects, in Arunachal Pradesh. All concerned beneficiaries are requested to give consent for signing of PPA at the earliest.

(ii) *Signing of BPSA in respect of Loktak Power Station with APDCL, Assam:-*

Signing of BPSA in respect of Loktak Power Station is pending since long in spite of our regular follow up. The existing BPSA has already expired on 31.03.2011. In this regard, NHPC has already requested APDCL vide letter dated 03.11.2014 and 01.12.2014 for extending the existing BPSA on same terms & conditions up to 31.10.2016 (till validity of tripartite agreement). The matter was also discussed in 23rd CCM of NERPC and representative of APDCL has assured that the BPSA in respect of Loktak Power Station will signed soon. But till date, we have not received any response from APDCL

So, it is again requested that intervention of NERPC is required in this regard for early signing of PPA/BPSA.

3.4 *Opening/maintaining of Letter of Credit (LC):*

MeECL: - MeECL, Meghalaya has not provided Letter of Credit (LC) of requisite amount in spite of our regular follow up. As on date, requisite amount of LC is ` 1.42 Crs based on 105% of average monthly billing of preceding 12 months i.e. January 2014 to December 2014.

MeECL, Meghalaya may be requested to furnish the Letter of Credit (LC) of requisite amount on top priority.

4. *Agenda items from APDCL (ASEB)*

4.1 *Colony Consumption by CSGS and Provision of CERC Regulations' 2014 thereon:*

As per provision of new CERC Regulations' 2014, the colony consumption and power consumed for construction works and other facilities at a generating station cannot be part of auxiliary consumption of that generating station.

In view of above, the NERPC/ NERLDC are requested to make available the monthly station-wise energy consumption figures of respective colony so that necessary bill can be raised by the Distribution Licensee/ Government Department.

4.2 *Charging of 33 KV APDCL Line from Khandong HEP to 33/11KV Umrangsu S/S of APDCL:*

The 33 KV Line from the NEEPCO station to the Umrangsu sub-station of APDCL has been constructed by APDCL in the year 2012 on the demand of NEEPCO. APDCL has completed all the formalities and removed all anomalies of the line to the extent possible as pointed out by NEEPCO during joint inspection for early commissioning of the line. APDCL has provided materials like control cable, closing/tripping coils etc. As reported the concerned field officer of NEEPCO is reluctant to charge the line, the reason of which is known only to NEEPCO.

APDCL has incurred substantial investment for this line and also is committed to charge the line. Therefore the Forum is requested to intervene into this matter and kindly take up the matter with NEEPCO authority.

4.3 *Energy supply to Arunachal and Nagaland through 33 KV/ 11 KV network of Assam (APDCL):*

Following the deliberations and decisions of the 22ND and 23RD Commercial Committee Meeting of NERPC on the subject cited above, APDCL had written to Arunachal Pradesh and Nagaland for bilateral settlement of billing matters of transaction of energy exchanges through the 11KV and 33 KV lines through Letter No. 62 dated 18.12.2014 (copy enclosed as Annexure-A). But there was no response till date from both states. The Forum may deliberate and advise APDCL accordingly.

4.4 *Bill Statement of Re-import of Kurichhu energy by Bhutan and approval of NERPC/ NERLDC thereof:*

APDCL vide its Letter No. APDCL/ CGM (COM)/ NERPC/ CC-OCC/ PT-3/ 2014/ 26 dated 29.01.2015 has sent the statements of billing on the basis of monthly average UI rates provided by NERLDC for necessary approval by NERPC/ NERLDC so that the matter can be pursued further. The Forum may kindly approve the same.

5. Agenda items from PGCIL

5.1 Outstanding dues:

The total outstanding of POWERGRID's NER beneficiaries is as under-

As on : 26/02/2015

CONSTITUENTS	` in Crores				
	Outstanding against Non PoC bills	Outstanding against PoC bills	Outstanding more than 60 days	Surcharge	Total Outstanding (including surcharge)
Ar. Pradesh	0.33	2.65	0.00	0.00	2.69
ASEB (Assam)	-0.06	0.00	0.00	0.91	0.86
Manipur	0.04	1.49	0.00	0.00	1.53
MeECL (Meghalaya)	0.82	10.15	1.12	0.04	11.03
Mizoram	0.39	7.47	4.26	0.00	7.86
Nagaland	-0.04	0.00	0.00	0.00	-0.04
TSECL (Tripura)	0.03	3.43	0.00	0.00	3.46
TOTAL	1.53	24.96	5.16	0.95	27.44

The total outstanding as on 25/02/2015 is `27.44 Crore. Out of total outstanding, `5.16 Crore is beyond 60 days. It may be seen that outstanding against MeECL & Mizoram are on much higher side. MeECL & Mizoram are requested to liquidate the outstanding.

Constituents are requested to clear the outstanding dues in time to avail attractive graded rebate offered by POWERGRID. Considerable amount of surcharge are also due for liquidation as shown above. If the outstanding dues over 60 days are not cleared by the Constituents at the earliest, POWERGRID may not have any other alternative, but to resort regulation as per CERC norms.

5.2 LC requirement against PoC billing as per Cl. No. 3.6 of BCD (Billing Collection and Disbursement) Procedures of CERC order No. L-1/44/2010-CERC, Dtd. 29.04.11

Cl. No. 3.6 of BCD states that, The Letter of Credit shall have a term of twelve (12) Months and shall be for an amount equal to one point zero five (1.05) times the average of the First Bill Amount for different months of the Application Period, as computed by the Implementing Agency (IA) for the DIC, where tripartite agreement for securitization on account of arrears against the transmission charges with the Government of India exist.

REQUIREMENT AND STATUS OF LC AS ON DATE (25.02.15) OF NER BENEFICIARIES

Sl	Beneficiary	Average first bill amount for (Apr-Sep13) of application period (` in Lakh)	M.F. (1.05 times where TPA exists)	LC required (Avg. first bill amount X MF (` in Lakh)	PRESENT LC VALIDITY UPTO	Due date of enhancement and renewal (for one year)	Tota LC Amount to be renewed including enhanced value (` in Lakh)		
							Existing	Enhancement	Total
1	Arunachal Pradesh	228.45	1.05	239.87	31.03.15	31.03.15	252.00	0.00	252.00
2	AEGCL (Assam)	1690.08	1.05	1774.58	26.03.15	26.03.15	1591.80	182.78	1774.58
3	Manipur	228.87	1.05	240.31	31.03.15	31.03.15	213.13	27.18	240.31
4	MeECL	402.41	1.05	422.53	10.12.13	10.12.13*	344.00	78.53	422.53
5	Mizoram	161.22	1.05	169.28	04.05.15	04.05.15	152.25	17.03	161.22
6	Nagaland	191.97	1.05	201.57	21.03.15	21.03.15	192.15	9.42	201.57
7	Tripura	328.81	1.05	345.25	14.02.15	14.02.15	183.00	162.25	345.25

Note – 1. LC shall be operated as laid down procedures of CERC order.

2. Tripartite agreement (TPA) for securitization on account of arrears against the transmission charges with the Government of India exists for all the constituents.

* MeECL has not renewed LC for last 3 years.

The constituents who are yet to renew LC are requested to enhance/renew LC as required to get the benefit of rebate scheme as per CERC norms.

6. Agenda items from NEEPCO

6.1 Construction power for AGTP extension project – inclusion in REA:

This issue was deliberated in the 22nd CC meeting held on the 12th of September'14 at Imphal.

Though it was decided for record of the said construction power drawal by NEEPCO in monthly REA, no such inclusion could be noticed till January'15.

As informed, the meter reading is being sent to NERLDC on regular basis.

The above is brought for deliberation of the house with a request to the NERPC to clarify the matter.

6.2 Huge outstanding dues of Tripura State Electricity Corporation Ltd (TSECL) and Power & Engineering Department, Govt. of Mizoram:

I. TSECL:

As per the records of NEEPCO, an amount of ₹ 80.25 Crore is payable to NEEPCO by the TSECL as on 28.02.2015 on account of purchase of electricity. Break up of the aforesaid dues are as follows:

❖ Monthly energy bill	: ₹ 28.86 crore
❖ Arrear bill on AFC revision (incl. Interest thereon)	: ₹ 16.57 crore
❖ Supplementary bill	: ₹ 17.76 crore
❖ Reimbursement bill (NERLC/NLDC Fees, CERC Appl. Fee etc.)	: ₹ 0.36 crore
❖ Late payment surcharge	: ₹ 16.70 crore
TOTAL	: ₹ 80.25 crore

Of the above dues, more than 60 (sixty) days old amounts to ₹ 66.52 crore.

Accrual of the above outstanding for TSECL is due to non-settlement of the following old bills:

- Doyang HEP arrear bill on AFC revision amounting to ₹ 10.03 crore
- Interest on arrear bills due to AFC revision amounting to ₹ 6.54 crore
- Supplementary bills
- Pending monthly energy bills till 31.03.2014 amounting to ₹ 14.82 crore
- Accrual of "Late payment Surcharge" for delay/non settlement of bills

In spite of regular persuasion with the beneficiary, no positive response/action plan from TSECL has been received by NEEPCO till date on liquidation of the said old claims.

Due to accrual of such outstanding, NEEPCO is facing acute financial crunch to meet its day to day expenditure including fuel cost required for operating its thermal power stations.

The above is for deliberation of the house with a request to the TSECL to appraise the house on their action plan for early settlement of the said dues.

II. P&E Department, Mizoram:

As per the records of NEEPCO, an amount of ₹ 62.10 Crore is payable to NEEPCO by the P&E Department, Mizoram as on 28.02.2015 on account of purchase of electricity. Breakup of the aforesaid dues are as follows:

❖ Monthly energy bill	: ₹ 37.30 crore
❖ Supplementary bill	: ₹ 9.39 crore
❖ Reimbursement bill (NERLC/NLDC Fees, CERC Appl. Fee etc.)	: ₹ 0.86 crore
❖ Late payment surcharge	: ₹ 14.55 crore
TOTAL	: ₹ 62.10 crore

Of the above dues, more than 60 (sixty) days old amounts to ₹ 42.38 crore.

Accrual of the above outstanding for P&E Department, Mizoram is due to non-settlement of the following old bills:

- Balance against monthly energy bills till 31.03.2014 amounting to ₹ 7.22 crore
- Irregular settlement of current monthly energy bills
- Non settlement of current Supplementary bills
- Accrual of "Late payment Surcharge" for delay/non settlement of bills

During the period of Apr'14 to Feb'15, total payment made by Mizoram to NEEPCO amounts to ₹ 66.29 crore.

Due to accrual of such outstanding, NEEPCO is facing acute financial crunch to meet its day to day expenditure including fuel cost required for operating its thermal power stations.

The above is for deliberation of the house with a request to the P&E Department, Mizoram to appraise the house on their action plan for early settlement of the said dues.

7. Agenda items from NERLDC.

7.1 Deviation charges outstanding:

Status of Deviation charges outstanding as on 27.02.2015 is attached (**Annexure-I**). From the same it can be seen that Assam (Rs. 34 Crores), Meghalaya (Rs. 10 Crores) and Tripura (Rs. 12 Crores) are major defaulters. Such payment default is creating serious constraint in timely settlement of pool account. NERLDC is to payout Rs. 27.3 Cr. to ER.

Commercial Committee may discuss and decide. Assam has given a commitment to clear full outstanding including current dues by April'15.

7.2 Non-payment of NERLDC fees and charges bills:

NERLDC is raising the bills on monthly basis on the 1st working day of every month in Terms of the CERC (fees and charges of RLDC and other related matters) Regulation, 2009.

The status of latest outstanding is as below:

Mizoram : Rs. 25, 28,860/-
Manipur : Rs. 22, 48,622/-

Defaulting constituents may liquidate outstanding dues at the earliest.

7.3 Outstanding dues for AMC of SCADA-EMS:

Outstanding charges - dues as on 27/02/2015 are as below:

	Overhead charges	AMC
AEGCL	1116233/-	2048467/-
MeECL	2134367/-	1655328/-
TSECL	131421/-	1642761/-

AEGCL and MeECL may liquidate the outstanding dues at the earliest.

7.4 Non-submission of weekly SEM readings by Mokokchang(Nagaland) and Deomali(AP).

Long pending issue needs to be addressed by Nagaland and AP.

7.5 Status of Procurement of SEMs / Spare availability:

Following are to be done as per earlier decisions -

1. 50 Nos SEMs and 10 DCDs to be procured/obtained by POWERGRID, NERTS immediately
2. On procurement of these meters, meters should be there at all locations as identified by NERLDC. Further, meters should be replaced in all locations where there are errors.
3. Procurement of 250 SEMs and 40 DCDs/LAPTOPS.

NERTS may furnish status of procurement.

7.6 Meter Time Drift:

High time drifts exist in various locations resulting in erroneous computation and loss spikes. It was proposed that whenever time drift is detected efforts should be made to reset [making the time drift zero] the same immediately and if due to any reason resetting could not be done then wherever time drift is more than 5 minutes the meter may be replaced.

NERTS may give details on action taken so far.

7.7 Installation of SEM in both ends of all ISTS.

SEM is yet to be installed in following locations:

1. Gelephu end of 132 kV Salakati-Gelephu
2. Jiribam end of 132 kV Jiribam -Badarpur
3. Imphal(PG) end of 132 Dimapur-Imphal(PG)
4. Balipara end of 400 kV Misa-Balipara –I
5. Balipara / Bongaigaon ends of 400 kV Bongaigaon-Balipara –Q/C

7.8 Furnishing Meter installation report

It is observed that installation report of SEM is not furnished to NERLDC/NERPC in time resulting in problems in computation. NERTS may be advised to furnish installation report with details of CTR, PTR immediately after installation.

7.9 Collection of weekly SEM data – AMR

AMR scheme was agreed in principle by Commercial Committee. NERTS was to give a presentation on Commercial implication of AMR Scheme.

It is necessary to expedite the AMR project for smooth collection of SEM reading.

Commercial Committee may discuss and decide.

7.10 Erroneous SEM reading

While carrying end1-end2 check, errors have been observed in following cases and needs to be attended/rectified:

1. 132 kV Imphal-Ningthoukong (very low reading at Ningthoukong end)
2. 220 kV Misa-Mariani(New) - Misa end reading lower by more than 10%
3. 132 kV Silchar-Badarpur line-2 (Badarpur reading half)
4. Misa ICT 1 (HV/LV 25% mismatch)
5. 132 kV Nirjuli-Gohpur (low reading at Nirjuli end)
6. 132 kV Agia-Nangalbibra (Nangalbibra reading half of other end)
7. 132 KV Balipara-Gohpur line : Meter error in Balipara end

NERTS may give timeframe for addressing the issues.

7.11 First time charging/synchronization of new elements by the owner of the asset and drawing start up power/injecting infirm power by new generating station

It has been observed that issues like non-availability of telemetered data and SEM readings are being faced in case of new elements, generating units. This creates serious problem in Grid Operation as well as for accounting of energy. The instances are highlighted in the presentation by NERLDC.

Commercial Committee may kindly note. All concerned are requested to ensure compliance.

7.12 *Tabling quarterly figures of Deviation and Reactive Pool Account in Commercial Committee:*

The figures will be tabled in Commercial Committee meeting.

8. Agenda items from TSECL.

8.1 Till date Mizoram has not open the LC which was expired on Aug 12 & as on date outstanding amount is approx 8-10 crores excluding the surcharge.

NERPC may kindly intervene for early recovery of outstanding dues as well as opening of LC as security mechanism.

8.2 Till date Manipur has not open the LC & as on date outstanding amount is approx 6-7 crores excluding the surcharge.

NERPC may kindly intervene for early recovery of outstanding dues as well as opening of LC as security mechanism.

9. Any other item with permission of the Chair

10. The next Commercial Coordination Sub-Committee meeting will be held in the month of May' 2015. The date and venue will be intimated separately.

ANNEXURE -I

INSTALLATION OF ELSTER METERS

	NAME OF ELEMENT	METER		DCD	
		FINAL	INTERIM	FINAL	INTERIM
1	400KV Silchar - P.K.Bari Line D/C	4	2 (PK BARI END)	1	1 (PK BARI END)
2	400KV SILCHAR - IMPHAL D/C Si lchar-I mphal <i>DIC</i> 2. I mphal(state) end of 132KV Imphal-Imphal <i>DIC</i> 3. Karong end of 132 KV Kohi ma-Karong l i ne. 4. Rengpang end of 132 KV Loktak-Rengpang line. 01 No.DCD for Im phal (state)	4	2 (IMPHAL PG END)	1	1 (IMPHAL END)
3	132KV IMPHAL - IMPHAL D/C Si lchar-I mphal <i>DIC</i> 2. I mphal(state) end of 132KV Imphal-Imphal <i>DIC</i> 3. Karong end of 132 KV Kohi ma-Karong l i ne. 4. Rengpang end of 132 KV Loktak-Rengpang line. 01 No.DCD for Im phal (state)	4	2 (IMPHAL STATE END)		
4	220KV Mariani- Mokokchung D/C	4	2 (MOKOKCHUNG END)	1	1 (MOKOKCHANG END)
5	132 KV Mokokchung-Mokokchung DC	4	2 (STATE END)	1	1(STATE END)
6	2X 220/132 KV ICT AT MOKOKCHANG	4	2 (LV END)		
7	220KV NTPC-BTPS DC	4	4	2	1
8	400KV Bongaigaon-Byrnihat Line BOTH ENDS	2	2	1	1
9	Balipara end of 400KV Balipara- BNC D/C	2	2		
10	BNC end of 400KV <i>DIC</i> Bal i para- BNC Line	METERS MAY BE INSTALLED LATER ON			
11	Both end 132KV <i>DIC</i> BNC-BNC Line.	4	4	1	1
12	Gelephu end of 132 KV Salakati-Gelephu Line	1	1	1	1

13	Bongaigaon end of 400KV Bongaigaon- Balipara-3 &4 line	2			
14	For Deomali SIS (State)	1	1	1	1
	TOTAL	40	26	10	9

TIME DRIFTED SEMs AT FOLLOWING LOCATIONS TO BE REPLACED IMMEDIATELY

1. LOKTAK 8 SEMS
2. DOYANG 7 SEMS
3. MISA 2 SEMS FOR BYRNIHAT FEEDER
4. SAMAGURI 2 SEMS FOR MISA FEEDER

NB 19 SEMS REQUIRED FOR REPLACING TIME DRIFTED METERS, REPLACEMENTS AT LOKTAK & DOYANG MAY BE DONE NOW AFTER ENSURING / CHECKING CORRECTNESS OF THE NEW METERS.

Technical specification (TS) for Special Energy Meters and DCDs-Compliance Sheet

SN	Technical Spec by POWERGRID
1.	The energy metering system specified herein shall be used for tariff metering for bulk, inter-utility power flows, in different Regions of India. One static type composite meter shall be installed for each EHV circuit, as a self-contained device for measurement of active energy (MWh) transmittals in each successive 15 minute block and certain other functions, as described in the following paragraphs.
2.	The meters shall be suitable for being connected directly to voltage transformers (VTs) having a rated secondary line-to-line voltage of 110V, and to current transformers (CTs) having a rated secondary current of 1 A (model-A) or 5A (model-B). Any further transformers/transactions/transducers required for their functioning shall be in-built in the meters. Necessary isolation and/or suppression shall also be built-in, for protecting the meters from surges and voltage spikes that occur in the VT and CT circuits of extra high voltage switchyards. The reference frequency shall be 50Hz.
3.	The active energy (Wh) measurement shall be carried out on 3-phase, 4-wire principle, with an accuracy as per class 0.2 S of IEC-62053-22:2003. In model-A (for CT secondary rating 1A), the energy shall be computed directly in CT and VT secondary quantities, and indicated in watt-hours. The meter shall compute and display the net active energy (Wh) sent out from the substation busbars during each successive 15-minutes block, and store it in its memory along with plus sign if net active energy(Wh) is sent and with a minus sign if net active energy is received . It shall also display on demand the net Wh sent out during the previous 15-minute block, with a plus sign if there is net Wh export and viceversa.
4.	Further, the meter shall continuously integrate and display on demand the net cumulative active energy sent out from the substation bus bars up to that time. The cumulative Wh reading at each midnight shall be stored in the meter's memory. The register shall move backwards when active power flows back to substation bus bars.
5.	The meter shall count the number of cycles in VT output during each successive 15-minutes block, and divide the same by 900 to arrive at the average frequency. This shall be stored in the meter's memory as a 2-digit code which shall be arrived at by subtracting 49.5 from the average frequency, multiplying by 100 and neglecting all decimals. For example, 49.89 Hz shall be recorded as 39. In case the average frequency is 49.5 Hz or below , it shall be recorded as 00. In case it is 50.49 Hz or higher, it shall be recorded as 99. The conversion of average frequency to 2 digit code shall be performed outside the meter by meter manufacturer supplied software and stored in text output file. The average frequency of the previous 15- minutes block shall also be displayed, on demand in hertz.
6.	The meter shall continuously compute the average of the RMS values of the three line-to-neutral VT secondary voltages as a percentage of 63.51 V, and display the same on demand. The accuracy of the voltage measurement/computation shall be atleast 0.5%, a better accuracy such as 0.2% in the 95-105% range being desirable.
7.	The meter shall also compute the reactive power (VAR) on 3-phase, 4-wire principle, with an accuracy as specified in clause 11.0, and integrate the reactive energy (VARh) algebraically into two separate registers, one for the period for which the average RMS voltage is 103.0% or higher, and the other for the period for which the average RMS voltage is below 97.0%. The current reactive power (VAR), with a minus sign if negative, and cumulative reactive energy (VARh) readings of the two registers shall be displayed on demand. The readings of the two registers at each midnight shall also be stored in the meter's memory. In model-A (for CT secondary rating of 1 A), the reactive power and reactive energy transmittals shall be computed in VAR/VARh directly calculated in CT and VT secondary quantities. When lagging reactive power is being sent out from substation busbars, VAR display shall have a plus sign or no sign and VARh registers shall move forward. When reactive power flow is in the reverse direction, VAR display shall have negative sign and VARh registers shall move backwards. The SEM shall compute and record the net VARh as well as per phase VARh (for all three phases) of each 15 minute block.Meter shall record net VARh of each 15 minute time block with

Technical specification (TS) for Special Energy Meters and DCDs-Compliance Sheet

	plus sign for reactive power sent out and minus sign for reactive power received into busbars.
8.	In the model-B (for CT secondary rating of 5A), all computations, displays and memory storage shall be similar except that all figures shall be one fifth of the actual Wh, VAR and VARh worked out from CT and VT secondary quantities.
9.	The meters shall fully comply with all stipulations in IEC standards 62052-11:2003 and 62053-22:2003, except those specifically modified by this specification. The reference ambient temperature shall be 30° C.
10.	Errors shall be reasonable for all power factor angles from 0° to 360°.
11.	For reactive power (VAR) and reactive energy (VARh) measurements, IEC 62053-23:2003 shall be complied with. The accuracy of measurement of reactive energy shall be as per class 2.
12.	Each meter shall have a test output device (visual) for checking the accuracy of active energy (Wh) measurement. The preferred pulsing rate is twenty (20) per Wh for Model-A and four (4) per Wh for model-B. It shall be possible to couple this device to suitable testing equipment also.
13.	No rounding off to the next higher last decimal shall be done for voltage and frequency displays. All 15 minute Wh figures shall however be rounded off to the nearest last decimal.
14.	The three line-to-neutral voltage shall be continuously monitored and in case any of these falls below about 70%, a normally flashing lamp provided on meter's front shall become steady. It shall go off if all three voltages fall below 70%. The time blocks in which such a voltage failure occurs/persists shall also be recorded in the meter's memory. The lamp shall automatically resume flashing when all VT secondary voltages are healthy again. The two VARh registers specified in clause 7.0 shall remain stay-put while VT supply is unhealthy.
15.	The meters shall normally operate with the power drawn from the VT secondary circuits. The total burden imposed by a meter for measurement and operation shall not exceed 10 VA on any of the phases. An automatic backup for continued operation of the meter's calendar-clock, and for retaining all data stored in its memory, shall be provided through a long-life battery, which shall be capable of supplying the required power for at least 2 years. The meters shall be supplied duly fitted with the batteries, which shall not require to be changed for at least 10 years, as long as total VT supply interruption does not exceed two years. The battery mounting shall be designed to facilitate easy battery replacement without affecting PCB of the meter. The meters shall not require any separate auxiliary supply for their operation. In addition, there shall be provision to operate on control power supply to SEM from 110V DC/220 DC. In case of loss of VT supply, meter's front panel display should not disappear and data/communication features must remain active. When Bay feeder is out, facility should be provided to download data on backup system (battery) independently & see on display on offline mode.
16.	Each Each meter shall have a built-in calendar and clock, having an accuracy of 30 seconds per month or better. The calendar and clock shall be correctly set at the manufacturer's works. The date (year-month-day) and time (hour-min.-sec.) shall be displayed on the meter front (when VT supply has been connected), on demand. Only limited clock adjustment shall be possible at site, using the DCD. When an advance or retard command is given, six subsequent time blocks shall be contracted or elongated by ten seconds each. The meter shall not accept another clock correction command for seven days. All clock corrections shall be registered in the meter's memory and suitably shown on print out of collected data. Additionally, this shall have functionality of password protected time correction through remote PC (used for AMR or any local pc/laptop) either taking input from GPS clock or manually.
17.	Each meter shall have a unique identification code, which shall be marked permanently on its front, as well as in its memory. All meters supplied to POWERGRID as per this specification shall have their identification code starting with "NP", which shall not be used for any other supplies. NP shall be followed by a dash and a Four digit running serial number to be provided by procurer further followed by a dash and "A" for Model-A, and "B", for the use with CT secondary's of 1 A and 5 A respectively. Bidder has to ensure the same before

Technical specification (TS) for Special Energy Meters and DCDs-Compliance Sheet

	manufacturing.
18.	Each meter shall have at least one seven (7)-character, seven-segment electronic display, for indication of the following (one at a time), on demand:
i)	Processor's identification code and model : nP1234 A
ii)	Date (year month day) : 910329 d
iii)	Time (hour min. sec.) : 195527 t
iv)	Cumulative Wh reading : 12345.6 C
v)	Average frequency of the previous block: 49.89 F
vi)	Net Wh transmittal during the previous block: - 28.75 E
vii)	Average % voltage : 99.2 U
viii)	Reactive power (VAR) : 106.5 r
ix)	Voltage - high VARh register reading: 01234.5 H
x)	Voltage - low VARh register reading : 00123.4 L
xi)	Low battery indication
19.	A gold plated touch key or push button shall be provided on the meter front for switching on the display and for changing from one indication to the next. (The display shall switch off automatically about one minute after the last operation of touch key/push button). When the display is switched on, the parameter last displayed shall be displayed again, duly updated.
20.	Each meter shall have a non-volatile memory in which the following shall be automatically stored:
i)	Average frequency for each successive 15-minute block, as a 2-digit code
ii)	Net Wh transmittal during each successive 15-minute block, up to second decimal, with plus/minus sign
iii)	Cumulative Wh transmittal at each midnight, in six digits including one decimal.
iv)	Cumulative VARh transmittal for voltage high condition, at each midnight in six digits including one decimal
v)	Cumulative VARh transmittal for voltage low condition, at each midnight, in six digits including one decimal
vi)	Date and time blocks of failure of VT supply on any phase, as a star (*) mark.
vii)	Date and time blocks of limited time correction through DCD, as a (aa), (rr) mark.
viii)	Date and time blocks of software based time correction, as a (A), (R) mark.
21.	The meters shall store all the above listed data in their memories for a period of ten (10) days. The data older than ten (10) days shall get erased automatically on FIFO.
22.	Each meter shall have an optical port on its front for tapping all data stored in its memory. Portable or hand held data collection devices/ Laptop shall also be separately provided for this purpose, (along with required Ethernet to serial converter and optical converter) one for each substation, to serve as the interface between the meters specified above and the local personal computer (PC). In addition to above each meter shall be provided with a RS-485 port (For RS485 Compatibility (plus, minus, common terminals to be provided for easy termination of daisy chain/similar connection or direct connection to PC by a cable) as well as optionally LAN port for RJ 45 connection on one of its sides, from where all the data stored in the meter's memory can also be tapped. The overall intention is to tap the data stored in the meter's memories once a week from any of the two ports mentioned above and transmit the same to a remote central computer using STD or other communication links, through the local PC. It shall also be possible to obtain a print out (hard copy) of all data collected from the meters, using the local PC. Data collection from a local laptop/PC should be possible by installing data collection software.
23.	The whole system shall be such as to provide a print out (both from the local PC and from

Technical specification (TS) for Special Energy Meters and DCDs-Compliance Sheet

	<p>remote central computer) of the following form:</p> <p>55 +16.28 56 +15.95 55 +15.32 54 +15.66 23 55 +14.93 55 +14.26 54 +14.85 56 +15.17</p> <p>NP-1234-A 12345.6 01234.5 00123.4 91-03-29 57 +14.72 56 +13.83 55 +13.57 53 +12.91 01 52 +13.34 51 +12.76 52 +14.11 52 +15.28</p> <p>The above data shall be available in text file format (file extension as per IEEE standard) exportable to Excel. Also, the system needs to provide additional data in the format mentioned in ANNEXURE-I. This data shall also be available in second text file format similar to first text file format. The user shall have the option to download one or both text files.</p>
24.	The meters shall be supplied housed in compact and sturdy, metallic or moulded cases of non-rusting construction and/or finish. The cases shall be designed for simple mounting on a plane, vertical surface such as a control/relay panel front. All terminals for CT and VT connections shall be arranged in a row along the meter's lowerside. Terminals shall have a suitable construction with barriers and cover, to provide a secure and safe connection of CTs and VTs leads through stranded copper conductors of 2.5 sq. mm. size.
25.	All meters of the same model shall be totally identical in all respects except for their unique identification codes. They shall also be totally sealed and tamper proof, with no possibility of any adjustment at site, except for clock correction.
26.	The meters shall safely withstand the usual fluctuations arising during faults etc. In particular, VT secondary voltages 115% of rated applied continuously and 190% of rated for 3.0 seconds, and CT secondary current 150% of rated applied continuously and 30 times of rated applied for 0.5 seconds shall not cause any damage to or maloperation of the meters.
27.	The meters shall also withstand without any damage or maloperation reasonable mechanical shocks, earthquake forces, ambient temperature variations, relative humidity etc. They shall have an IP-51 category dust-tight construction, and shall be capable of satisfactory operation in an indoor, non-air conditioned installation.
28.	The meters shall continue to function for the remaining healthy phase(s), in case one or two phases of VT supply fails. In case of a complete VT supply failure, the computation of average frequency (as per 5.0) shall be done only for the period during which the VT supply was available in the 15-minute block. Any time block contraction or elongation for clock correction shall also be duly accounted for.
29.	The harmonics shall preferably be filtered out while measuring Wh, VAR and VARh, and only fundamental frequency quantities shall be measured/computed.
30.	Either the meters shall have built-in facility (eg. test links in their terminals) for in-situ testing, or a separate test block shall be provided for each meter.
31.	<p>Portable/hand-held Data Collection Devices (DCD):</p> <p>These shall be tailor-made for tapping all data stored in a meter's memory, a faithfully transferring it to the local PC. The device shall be having IEC 62056 compatibility for standardized parameters and shall be compatible universally across different make of SEMs. Each device shall be supplied complete with</p>
i)	a lead with optical head for coupling it to the meter,
ii)	a lead for plugging it to a personal computer;
iii)	an internal battery for powering the devices;
iv)	a case for safely carrying it about
v)	a battery charger
vi)	Serial to USB converter
	The total arrangement shall be such that one (1) operation can carry out the whole operation himself, in about five (5) minutes per meter or preferably faster. The same is applicable while downloading data from meter to PC.
32.	The DCD shall have a key for starting the data tapping from the coupled meter's memory, a key

Technical specification (TS) for Special Energy Meters and DCDs-Compliance Sheet

	to start data transfer to the PC, and a lamp, which would light up on completion of data collection, remain 'on' while the data is held in the device and would go 'off' when all data has been transferred to the PC. Data tapping operation shall not erase the data from the meter's memory, or effect the meter operation in any way. The memory of the DCD shall get automatically cleared when the data has been transferred to the PC only then the DCD shall accept data from another meter. DCDs shall also have necessary provision for meter clock correction. DCDs shall be compatible with earlier supplied meters of L&T/SML/ ELSTER make in regard to data downloading etc.
33.	The Contractor shall provide the necessary software which would enable a local IBM-Compatible PC to
i)	accept the data from the DCD and/or from an interface device connected to the optical port/RS-485 port and store it in its memory in binary read only format in an user defined file name (File name format must be ddmm substation name-utility name),Also the download operation with DCD or directly using optical cable shall create a single file in binary form for all SEMs whose data was collected in that continuous session/operation.
ii)	Polling feature along with a task scheduler to run the data downloading software at a pre-designated date and time repeatedly or by manually selecting a meter. File naming for such downloaded data should also be in user defined format. A detailed activity log shall also be available for each downloading operation,
iii)	upload/import meter data (binary files) in the software for further processing. While uploading, there shall be provision to upload all selected files with single key stroke.
iv)	Convert the binary file(s) to text file(s). There should be provision to select multiple files based on file name, convert all selected files with single key stroke and store the text files in the same location where binary files are stored.
v)	display the collected data on PC's screen in text format, with forward/backward rolling,
vi)	print out in text format the data collected from one or more meters, starting from a certain date and time, as per operator's instructions,
vii)	transmit the collected data, in binary format, through an appropriate communication link to the central computer, starting from a certain date and time, as per operator's instructions, and
viii)	Store the collected data in binary format, on a floppy disc/CD/Pen Device. In addition to above, in general the software should be able to convert DLMS/COSEM compliant SEMs data to existing format as well as in tabular (.csv) format as applicable.
34.	The above software shall further ensure that absolutely no tampering (except total erasures) of the collected metering data is possible during its handling by the PC. The software shall be suitable for the commonly available PCs, and shall be supplied to Owner in a compatible form to enable its easy loading into the PCs available (or to be installed by the Owner/others) at the various substations.
35.	Quality Assurance “THE SOFTWARE SHOULD BE USER FRIENDLY AND CERTIFIED BY NERLDC (NORTH EASTERN REGION LOAD DESPATCH CENTRE) FOR ENSURING DATA HANDLING CAPABILITIES”. The same should be demonstrated by party during technical evaluation only. During demonstration standard meter to be brought by party Therefore software shall be offered for technical compatibility at NERLDC, Dongtieh, Lower Nongrah, Lapalang, Shillong, Meghalaya- 793006, which will be evaluated technically, before taking up further necessary action in the procurement process.
36.	The quality control procedure to be adopted during manufacture of the specified equipment shall be mutually discussed and finalized in due course, generally based on the established and proven practices of the manufacturer.
37.	Testing
38.	All equipment, after final assembly and before dispatch from manufacturer's works, shall be duly tested to verify that is suitable for supply to the Owner. In particular, each and every meter shall be subjected to the following acceptance tests:

Technical specification (TS) for Special Energy Meters and DCDs-Compliance Sheet

i)	Verification of compliance with Table 4 under clause 8.1 of IEC-62053-22:2003, in both directions of power flow, for class 0.2S.
ii)	Test of the register ratio and the impulse value of the transmitting device, for both directions.
iii)	Verification that VARh measurement errors are within values permitted for class 2 in Table 6 of IEC 62053-23 for both directions of power flow.
iv)	Effect of +10% variation in measuring circuit voltage, on accuracy of Wh and VARh measurement
v)	Power loss.
vi)	Dielectric properties.
vii)	Starting and running with no-load for Wh and VARh, in both directions.
viii)	Functional checks for display and memory.
ix)	Accuracy of the calendar and clock.
x)	Accuracy of voltage and frequency measurement.
39.	Any meter which fails to fully comply with the specification requirements shall be liable to be rejected by the Owner. However, the Owner may purchase such meter at a reduced price in case of marginal non-compliance, at his sole discretion.
40.	Acceptance Tests for DCD and PC Software All DCDs, after final assembly and before dispatch from Contractor's/Manufacturer's works shall be duly tested to verify that they are suitable for supply to the Purchaser. In particular, each and every DCD shall be subjected to the following acceptance test:
i)	Functional checks
ii)	Downloading Meter Data from the Meter(s)
iii)	Compatibility with PC Software
iv)	Downloading the meter data on PC
v)	Functioning of advance and retard time commands
vi)	Per meter downloading time verification
vii)	Capacity of DCD for data storage
41.	Type Tests One (1) out of every hundred (100) meters shall be subjected to the complete range of type tests as per IEC-62053-22:2003, IEC-62053-23:2003 and IEC 62052, 11:2003, after final assembly. In case of any failure to pass all specified tests, the contractor shall arrange to carry out the requisite modifications/replacements in the entire lot of meters at his own cost. After any such modifications and final assembly, two (2) meters selected out of the lot by the Owner's representative shall be subjected to the full range of type tests. The lot shall be accepted by the Owner only after successful type testing.
42.	The meters used for type testing shall be separately identified, duly marked, and supplied to the Owner in case they are fully functional and as good as other new meters, after necessary touching up/refurbishing. In case this is not possible, the contractor shall provide their replacements at no extra cost to Owner.
43.	The Contractor shall arrange all type testing specified above, and bear all expenses for the same.
44.	Following technical information shall be furnished by the Bidders in their offers: i) Foreseen dimensions of proposed meter. ii) Expected weight of proposed meter. iii) Foreseen dimensions of DCD & Laptop iv) Expected weight of DCD & Laptop v) Dimensions and weight of the test block, if supplied separately.
45.	Warranty : 1. 3 Years for both Meter & Data collecting Device (including Laptop) 2. The warranty would include repair, replacement , part material replacement cost and one way (return) transportation cost (including insurance of transit) 3. Meter/DCD/Laptop software, if upgraded by OEM should be supplied free of cost with initiation taken from party. Remote service person name to be indicated during bidding

Technical specification (TS) for Special Energy Meters and DCDs-Compliance Sheet

46.

Laptop:

1. Computer Notebook with Intel Core i5 processor or higher

- a. Processor cache : Mobile Intel core i5,3320 M, 2.6 GHZ with 3 MB L3 or Better IVY Bridge Configuration.
- b. Chipset & Motherboard: Intel 7 series or higher chipset on OEM Mother board.
- c. Memory : 4GB 1333 MHZ DDR3 RAM or higher expandable up to 8 GB
- d. HDD : 500 GB, 5400 rpm (min) SATA
- e. Display : 14" (35.6 cm) or above TFT active Matrix wide Screen Display.
- f. Resolution : 1366 x 768 WXGA or higher
- g. Video controller : Integrated Intel HD Graphics
- h. Wireless Connectivity : Integrated wireless b/g/n, Integrated Blue tooth.
- i. DVD Writer : Integrated DVD Writer 8X and Integrated stereo speaker.
- j. Key Board : Key Board with Touch Pad. Portable Key Board & 1no. mouse would be provided separately.
- k. Expansion Port : 3 USB, 10/100/1000 Ethernet card, RGB or S-Video or VGA/ HDMI (Inbuilt or Adaptor), 3 in one card reader, Microphone In, Headphone In & other standard features.
- l. Operating system : Microsoft windows 9 Professional/Linux (as applicable) preinstalled & Norton/McAfee/e-trust & other software, Antivirus Software latest version with 3 years license.
- m. Power Supply : 240V+/- 20%, 50 Hz AC Supply with rechargeable Battery suitable for approx. 5 hrs. operation complete.
- n. Carry case : To be provided of reputed make with cushions of laptop protection.
- o. Weight : Less than 2.8 kg (with DVD Writer)

2. Any additional cable(with optical adapter or converter) or Software as required for data downloading from special energy meters (to laptop or DCD) are to be supplied with DCDs & Laptops

3. Should be supplied with latest/compatible software (should be compatible with old & new meters data download handling) for L&T, Vallaby, Elster, Secure. Any new software as required to be installed within warranty period are to be done by party or through remote support to client

4. The total arrangement shall be such that one (1) operation (click on "data down load from meter" button on software)can carry out the whole operation himself, in about five (5) minutes per meter or preferably faster.

5. The layout of software front end/user interface has to be approved by bidder during technical evaluation/demonstration. However a standard template sheet will be provided along with bid for ref.

5. All facilities as indicated above for DCD should be covered against usage of Laptop

6. Software for windows/office/antivirus to be supplied. Antivirus SW should not slow down processes and same will be demonstrated during technical demonstration.

7. Above spec. is minimum only, any higher standard required for the purpose intended (meter data handling) would be assessed by vendor and would be supplied accordingly.

The DRS should be approved during drawing approval stage

Technical specification (TS) for Special Energy Meters and DCDs-Compliance Sheet

Lastly meter should comply all CEA regulations as per Interface meters as mentioned below:

As per powers vested in the Electricity Act, 2003, the Central Electricity Authority(CEA) had notified the Central Electricity Authority (Installation and Operation of Meters) Regulations 2006 followed by Amendment Regulations, dated 04th June, 2010. The CEA has laid down the standards and guidelines to be adopted for Interface Meters with respect to type, ownership, accuracy, Operation & Maintenance, Anti-Tampering, Calibration ,etc. Clause 20.0 of this Regulation provides for adoption of New Technologies with the approval/directions of the Appropriate Commission.



No.APDCL/ ACE (COM)/ PS-8(1)/ PT - 3/ 2006/ 62

Dated 18. 12. 2014.

To,

1. The Chief Engineer (Power),
Western Electrical Zone, Department of Power,

Govt. of Arunachal Pradesh Itanagar – 791111.
2. The Chief Engineer (P&E),
Department of Power, Govt. of Nagaland,
Kohima-797001.

Sub : Bilateral Issues in Assam and Arunachal Pradesh/ Nagaland on energy exchange at 33 KV/ 11 KV level and decisions in the 22ND Commercial Committee Meeting of NERPC there upon.

Sir,

kindly refer the Minutes of 22ND Commercial Committee Meeting of NERPC dated 12.09.2014 where several issues on above subject matter was deliberated under Item No. 3 and decided accordingly in the overall interest of the region. Extract copy of the Minutes is enclosed herewith for your ready reference.

APDCL has conveyed its thanks to Arunachal Pradesh for releasing the payment of ` 27,69,714.00 against Bordumsa-Ketetong Feeder. The decisions taken by above commercial committee meeting are follows:

3.1 Energy supply to Arunachal and Nagaland through 33/ 11 KV Network.

Keeping in view the accounting problems under POC regime, the NERPC Forum has advised to go for bilateral energy accounting under the present evacuation mechanism. The decision is taken to just to separate such transaction from the real time accounting followed in present accounting system. But because of absence of Arunachal representative decision on the tariff applicable for such bilateral transaction could not be settled in that meeting. Now the tariff is to be agreed at bilateral/ NER commercial level.

In this connection I would like to inform you that the applicable tariff for export from APDCL would be the tariff under category 'Bulk Others' as decided by AERC from time to time. For the export from Arunachal and Nagaland the applicable tariff would be as per their State/ Regulatory Tariff applicable for such transaction. If such regulatory state tariff

is not available within Arunachal/ Nagaland, then APDCL feels the same tariff applicable for APDCL export could be implemented for Arunachal/ Nagaland also till such tariff does not come up there.

APDCL intends to implement the proposed bilateral accounting and billing system with effect from the beginning of the next financial year with effect from 1st April' 2015.

3.2 Anomalies of Meter Reading of 11 KV Rowing Feeder.

This is an issue relating to Arunachal in connection with malfunctioning of energy meter of Rowing feeder for the period of April' 2009 to July' 2011. After replacement of the meter in July' 2011, the energy for the meter stop period is to be regularized based on average consumption of three months of either preceding or succeeding period whichever is higher. But because of absence of Arunachal representative, the applicable energy quantum could not be resolved in the meeting.

The applicable tariff for billing would be as per average monthly UI rate as agreed in the Ketetong feeder.

Because of absence of Arunachal/ Nagaland representatives in the subsequent 23RD Commercial Committee Meeting of NERPC, the matter could not be settled. In the 23RD CC meeting the NERPC Secretariat advised to arrange a joint meeting either at Arunachal or Nagaland or at Shillong as per your convenience wherein the NERPC also agreed to grace the occasion.

In view of the above, you are requested to kindly fix up a date within first half of January' 2015 either at state-wise basis or common basis and location as per your convenience and intimate accordingly.

Your positive response is awaited.

Yours sincerely

Chief General Manager (Commercial), APDCL.

Memo No. APDCL/ ACE (COM)/ PS-8(1)/ PT - 3/ 2006/ 62(A) Dated 18. 12. 2014.

Copy for information to:

1. The PS to the MD, APDCL – For kind information of the MD.
2. The Member Secretary (I/C), NERPC, Meghalaya State Housing Finance Co-Operative Society Limited Building, Nongrim Hills, Shillong-793003.

Chief General Manager (Commercial), APDCL.

ASSAM POWER DISTRIBUTION COMPANY LIMITED

No. APDCL/CGM (COM)/NERPC/CC-OCC/ PT-3/2014/ 32

Dated 19.02.2015.

To, The Member Secretary,
North Eastern Regional Power Committee,
Meghalaya State Housing Finance Co-operative Society Ltd Building,
Nongrim Hills, Shillong – 793003.

Sub : Re-import of Kurichhu energy by Bhutan from Assam grid from April' 2003 and final billing from April' 2003 to December' 2014 thereof .

Sir,

This has the reference to this office earlier Letter No. APDCL/CGM (COM)/NERPC/CC-OCC/ PT-3/2014/ 26 dated 29.01.2015 on the subject cited above. As pointed out by NERLDC the earlier bill statement requires further revision and accordingly necessary correction are made at our end. Now we hereby send the final bill statement for your approval so that necessary petition can be filed before the CERC.

Yours faithfully

S/D A. Baishya,
Chief general Manager (Commercial).

Memo No. APDCL/CGM (COM)/NERPC/CC-OCC/ PT-3/2014/32 (A) Dated 19.02.2015.

Copy for information and necessary action to:

1. The General Manager, NERLDC, Dongtiah, Lower Nongrah, Shillong– 793006.
2. ERPC File.
3. Bhutan File.

Chief general Manager (Commercial).

**Summary Sheet of Billing at Average UI Rate for wheeling of power to
Bhutan through Tamulpur and Daifam Feeders**

Figures are in Rupees

Year	Tamulpur Feeder	Daifam Feeder	Yearly Total
UNDER UI MECHANISM			
2003-04	457005.18	547844.82	1004850.00
2004-05	983410.45	887177.84	1870588.29
2005-06	283840.91	1171423.30	1455264.21
2006-07	372654.55	1647261.14	2019915.69
Sub Total	2096911.09	4253707.10	6350618.19
2007-08	0.00	2255963.54	2255963.54
2008-09	0.00	2772730.68	2772730.68
2009-10	0.00	2275019.32	2275019.32
2010-11	0.00	1665378.36	1665378.36
Sub Total	0.00	8969091.90	8969091.90
2011-12	0.00	2057037.73	2057037.73
2012-13	0.00	1688282.30	1688282.30
2013-14	0.00	821005.18	821005.18
Sub Total	0.00	4566325.21	4566325.21
UNDER DSM MECHANISM			
17.02.14- Nov'2014	0.00	1498830.93	1498830.93
Sum Total	2096911.09	19287955.14	21384866.23