

EASTERN REGIONAL POWER COMMITTEE
14, Golf Club Road, Tollygunge, Kolkata-700 033

No. ERPC/COM-I/GEN/2008/4574-98

Dated : 12 .11.2008

To : As per list

Sub : Minutes of 8th Commercial Sub- Committee meeting of
ERPC held on 11.11.2008 at ERPC, Kolkata

Sir,

Enclosed please find minutes of the 8th Commercial Sub-
Committee meeting of ERPC held on 11.11.2008 at ERPC, Kolkata.
Observations / Amendments, if any, may please be furnished to ERPC
for further necessary action.

Enclosure : as above

Yours faithfully,

(R.K.GROVER)
MEMBER SECRETARY

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MINUTES OF THE 8TH COMMERCIAL SUB-COMMITTEE MEETING OF ERPC HELD ON 11.11.2008 (TUESDAY) AT 1100 HRS. AT ERPC, KOLKATA

The list of participants is enclosed in **Annexure-‘A’**.

Shri R.K. Grover, Member Secretary, ERPC welcomed the participants in the 8th Commercial Sub-Committee meeting of ERPC. He informed that a number of issue has been listed for deliberation in the meeting. He requested Shri J. Bandyopadhyay, SE (Comml), ERPC to take up the agenda items for discussions.

ITEM NO. 1 CONFIRMATION OF THE MINUTES OF THE 7TH COMMERCIAL SUB-COMMITTEE MEETING HELD ON 24.06.2008.

The minutes of the 7th Commercial Sub-Committee meeting held on 24.06.2008 were circulated vide letter no. ERPC/COM-I/GEN/2008/2041-2065 dated 08.07.2008. ERPC Secretariat has not received any request for amendment to the above minutes.

Members may please confirm the minutes of the meeting as circulated.

Deliberations in the Commercial Sub-Committee Meeting

Members present in the meeting confirmed the minutes of the 7th Commercial Sub-Committee meeting issued on 08.07.2008 by ERPC.

ITEM NO. 2 A) PAYMENT OF UI -- PRESENT STATUS

- i) The UI payment status as disbursed to the constituents of ER is enclosed at Annexure-I. As directed by Hon'ble CERC vide order dated 04.06.2008 against Petition No. 54/2008 (suo-motto), BSEB has been releasing the outstanding payment of 20 crores per month for the year 2007-08 after due adjustment of its current receivables. As on 4th November 2008, the final outstanding UI dues of BSEB stands as Rs. 40.71 Crores inclusive of its outstanding dues of Rs.24.54 Crores for 2007-08.
- ii) For the purpose of reconciliation, ERLDC vide its letter no. EASS/UI-13/2008/771-778 dated 30.07.2008 has communicated details of UI payment made to ER constituents and has requested them to reconcile and confirm within fifteen days of issue of the letter. While WBSETCL has confirmed the same, confirmations

from the other utilities are yet to be received by ERLDC.
(Issue raised by ERLDC)

Members may please note and discuss.

Deliberations in the Commercial Sub-Committee Meeting

Members noted the UI payment status given in the Annexure. It was informed by ERLDC that as per CERC order, BSEB had to pay Rs.20 Crores per month as liquidation of its outstanding dues for the year 2007-08 in addition to the current UI bill. However, BSEB has been making adjustment from the current receivable with the outstanding payment of Rs.20 crores per month which is contrary to the direction issued by CERC. As on date, BSEB is having UI outstanding of Rs.16 Crores approximately for the current financial year. With the outstanding dues of 24 Crores for the year 2007-08, the total outstanding UI amount for BSEB is around Rs.40 Crores.

ERPC advised BSEB to continue making payment of current dues, if any, in addition to outstanding dues for 2007-08.

Some members pointed out that in accordance with the CERC regulation governing payment of UI, a delayed payment surcharge is to be levied for the period beyond cut-off date of payment. ERLDC has been requested to compute this quantum and indicate it.

ERLDC informed that the detailed payment surcharge would be applicable only for BSEB and would be computed after liquidation of the outstanding dues.

Regarding furnishing of reconciled figures of UI payment made to the ER constituents, it was submitted by ERLDC that the same are required for audit purpose. After detailed deliberations, it was decided that ER constituents who would not furnish the reconciled figures within 15 days from today (11.11.2008), it would be presumed that the figures are reconciled and the audit would be accordingly informed. ER constituents agreed to this.

B) DISBURSEMENT OF PAYMENT TOWARDS UI INTEREST

As per the decisions taken during the 7th TCC / ERPC meeting, the disbursement of UI interest amount has been made to all concerned ER beneficiaries in proportion to the yearly UI receivables. The statement of Interest paid for 2005-06 and 2006-07 is shown at Annexure-II. Further the interest accrued for the UI charges for the period 2007-08 has already been reconciled with the bank. The interest accrued against UI account charges is Rs.35,67,307. The same is proposed to be disbursed to utilities in proportion to their respective yearly receivable of UI charges. (Issue raised by ERLDC)

Members may please note and discuss.

Deliberations in the Commercial Sub-Committee Meeting

Members noted the interest accrued in the bank for UI charges amounting to Rs.3567307 for the year 2007-08. Members also noted the ERLDC proposal regarding disbursement of the said amount in proportion to their respective yearly receivable UI charges as has been done for the year 2005-06 and 2006-07.

In this connection, Member Secretary, ERPC requested the constituents to explore the possibility of utilizing this accrued interest for imparting training (Inland and Foreign) to the constituent members of the Eastern Region.

Members present in the Commercial Sub-Committee meeting decided to place this in the forthcoming TCC for deliberations.

C) REACTIVE ENERGY CHARGES -- PRESENT STATUS

The updated position of Receipt/Payment in the pool as on 19.10.2008 as received from ERLDC is indicated at Annexure – III.

ERLDC is requested to indicate the yearwise balance amount (if any) accumulated in the ER Reactive Pool Account upto 2007-08.

Members may please note and discuss.

Deliberations in the Commercial Sub-Committee Meeting

Members noted.

D) I.R.E. POOL ACCOUNT OF ER WITH OTHER REGIONS.

The status of settlement of IRE account between ER- SR & ER- NR as on 31.10.2008, as received from ERLDC, is indicated below.

For the year 2008-09 IRE account between ER-SR has been reconciled and settled between ER and SR upto 14th week (i.e. 06.07.2008). Rs.5774.76393 lakhs has been received from SR on account of IRE and already distributed to ER constituents. Moreover, Rs.8360.60680 lakhs has also been received from SR for 15th to 25th week (upto 21st September 2008) and will be disbursed to ER constituents by ERLDC in due course.

The net IRE amount receivable from NR upto 27.08.06 was Rs. 112.6463780 Crores out of which **an amount of Rs. 96.4274403 Crores is still pending.** Correspondence has been made several times with NRPC for reconciliation and settlement of the account. NRPC has

examined and reconciled the IRE account upto 31.03.2006 and requested NRLDC to release payment of an amount of Rs.47.8661786 Crores to ER IRE Pool Account.

Members may please note.

Deliberations in the Commercial Sub-Committee Meeting

Members noted.

ITEM NO. 3 ENERGY ACCOUNTING OF KAHALGAON STAGE I & STAGE II

In the 7th Commercial Sub-Committee meeting, it was intimated by NTPC that Unit No. 5 & 6 of Kahalgaon STPS Stage –II has generated infirm power in the recent past. As intimated by NTPC, the generation from the above units is likely to commence on regular basis. Till the commercial operation of all the three units (U-5, 6, 7) of Kahalgaon STPS Stage –II, some methodology needs to be adopted to segregate the firm and infirm generation of the units of KhSTPP – II. Accordingly NTPC submitted a proposal to ERPC, which was subsequently discussed between representatives of ERPC, ERLDC & NTPC. The proposed Energy Accounting Methodology to be adopted for KhSTPP – II of NTPC is indicated below:-

A) Till the units at NTPC, Kahalgaon Stage II are commercial:

1) ESO for Stage II units:

- a) U#5 = GT5-ST3
- b) U#6 = GT6-ST4
- c) U#7 = GT7-ST5

2) $AG(\text{COMMERCIAL}) = \sum Ex - (U\#5 + U\#6 + U\#7)$ (only non-commercial units) where $\sum Ex = \text{ESO} = \text{Sum of export on all outgoing lines (400 KV \& 132 KV)}$.

3) $UI = AG(\text{COMMERCIAL}) - (SG1 + SG2)$ where

- a) SG1 = Schedule generation of Stage I Units
- b) SG2 = Schedule generation of Stage II Units

4) Normally the Station Transformer of Stage II units feed the power for that particular Unit (ST3 to U#5, ST4 to U#6 & ST5 to U#7). In the eventuality that any one of the station transformer of Infirm Units of Stage II is not in service then the power drawn for auxiliaries of that particular unit will be from another Station Transformer of Stage II, so the treatment of ESO for all the Infirm Units for that duration would be as per the minutes of meeting of 6th Commercial Committee of ERPC.

B) After all the units at NTPC, Kahalgaon Stage II are commercial:

- 1) $AG = \sum Ex$;
a) Where $\sum Ex$ is Station ESO as at (A) 2) above.
- 2) $UI = (AG - SG1 - SG2)$;
a) Where SG1 is SG of Stage I & SG2 is SG of Stage II.

After scrutiny, the members present in the 7th Commercial Committee meeting approved the above mentioned methodology for adoption in energy accounting for NTPC Kahalgaon Stage-I and Stage-II. The same was approved by the TCC members present in the 7th TCC meeting held on 25.07.2008 and accounting is being carried out accordingly.

Again NTPC vide their letter dated 19.09.2008 and 06.10.2008 has requested that power drawn on account of start-up / auxiliary consumption / construction for Units No. 6 & 7 of KhSTPP Stage II may be accounted and shown as UI of energy drawn by Units no. 6 & 7 of KhSTPP Stage II at UI rate.

Status of Units No. 5, 6 & 7 of Kahalgaon STPS Stage-II til date is given below :

	<u>Infirm generation</u>	<u>Commercial operation</u>
U # 5	upto 2400 hrs of 31.07.2008	from 0000 hrs of 01.08.2008
U # 6	only on 16.03.2008	
U # 7	Not yet started	

In this reference treatment of Infirm power as directed by Hon'ble CERC vide their order dated 28.12.2007 is given below :

“19. **Sale of Infirm Power** : Infirm power shall be accounted as Unscheduled Interchange (UI) and paid for from the regional / State UI pool account at the applicable frequency-linked UI rate. Any revenue earned by the generating company from sale of infirm power shall be applied for reduction in capital cost and shall not be treated as revenue”.

Members may please note and discuss.

Deliberations in the Commercial Sub-Committee Meeting

SE (Comml), ERPC informed that the agreed methodology of energy accounting of Kahalgaon Stage-I and Stage-II was adopted for segregation of infirm and firm generation of Kahalgaon Stage-II units.

Recently NTPC had made a request that the start-up/auxiliary consumption/construction power drawn by U # 6 & 7 of Kahalgaon Stage-II may be treated as UI power. To resolve this issue, ERPC had convened a meeting among the representatives of NTPC, ERLDC and ERPC. However, no consensus decision could be arrived at regarding acceptance of NTPC proposal. In this connection, SE (Comml), ERPC brought to the attention of the members present regarding the provision of treatment of infirm generation of a unit as UI and corresponding reduction of capital cost. However, no provision for treatment of power absorbed prior to synchronization exists in the regulation. It has been earlier suggested by ERPC to NTPC to enter into bilateral arrangement with some entity for availing this power.

NTPC representative present in the meeting informed that as per earlier CERC order in the matter of absorption of power by TSTPS, CERC had allowed the absorbed power to be treated as UI.

It was, however, clarified by ERPC that the CERC order on TSTPS was for treatment of power after synchronization and commercial declaration of the unit, not prior to the synchronization. As such, the case was entirely different.

Member Secretary, ERPC observed that regular power absorption by an entity cannot be treated through UI route as the very concept of UI has been developed for maintaining grid discipline.

All other constituents endorsed the views of ERPC. In addition, BSEB offered to supply NTPC the requisite quantum of power on bilateral basis, if approached by NTPC.

ITEM NO. 4 DEEMED GENERATION OF RANGIT HPS DURING THE PERIOD OF FLOOD AND RESTORATION THEREOF

The issue of deemed generation of Rangit HPS during flooding from 11.07.2006 to 18.10.2006 was deliberated in details in the 7th meeting of TCC and 7th meeting of ERPC held respectively on 25.07.2008 and 26.07.2008 at Ranchi. In the ERPC meeting it was decided that “ERPC would issue a statement indicating the payment liability of the beneficiary constituents on account of demand of Rs.2.181 crores of NHPC towards deemed generation of Rangit HPS. Based on the statement issued by ERPC Secretariat beneficiary constituents of Rangit HPS would release payment to NHPC”.

Accordingly, ERPC vide its letters No. ERPC/COM-I/REA/2008/3258-64 dated 10.09.2008 and No. ERPC/COM-I/REA/2008/3688-94 dated 23.09.2008 issued statement indicating the amount payable by the beneficiaries of Rangit HPS towards deemed generation of Rangit HPS. On further scrutiny it has been found out that NHPC had imposed regulation on BSEB for certain period in 2006-07 for which the waited average allocation

of share of Rangit HPS got modified. The revised liability of the beneficiary constituents would be as follows :

Beneficiary	% Share Allocation of Rangit HPS		Payment to be made by Beneficiaries on account of Deemed Generation of Rangit HPS during the period of Flood (from 11.07.06 to 18.10.06) for admitted amount of Rs.2.181 Crores by ERPC in its 7 th meeting held on 26.07.2008	
	Previously Considered	Actual	Previously calculated figure (Rs.)	Revised figure (Rs.)
BSEB	35.000000	30.507392	8674432	7560980
JSEB	13.330000	13.330000	3303719	3303719
DVC	10.000000	10.000000	2478409	2478409
GRIDCO	0.000000	0.000000	0	0
WBSEB	28.340000	32.832608	7023811	8137263
SIKKIM	1.330000	1.330000	329629	329629
TOTAL			21810000	21810000

Beneficiary constituents of Rangit HPS may please take a note of this and take necessary action.

Deliberations in the Commercial Sub-Committee Meeting

Members present noted the revised payment to be made by the beneficiaries on account of deemed generation of Rangit HPS during the period of flooding from 11.07.2006 to 18.10.2006 given by ERPC in the agenda.

ITEM NO. 5 KIRUCHU POWER EVACUATION ARRANGEMENT THROUGH 132 KV DEOTHANG-RANGIA TRANSMISSION LINE

Kiruchu Hydroelectric Power Project is located in Bhutan and is having installed capacity of 60 MW (4 x 15 MW). The surplus generation is exported to India. WBSedCL and DVC are having allocation of 50% each from KHEP. KHEP power is metered at Gelephu located in Bhutan and is received in India at Salakati (Assam) through 132 kV Gelephu-Salakati line. 220 kV Birpara-Salakati D/C line transmit this power to Birpara and is ultimately consumed in Eastern Region. As per the existing agreement between PTC and Royal Government of Bhutan, the beneficiaries of Kiruchu, viz, DVC and WBSedCL, have to pay Rs.1.80 per unit received at Gelephu. The beneficiaries bear the ER transmission loss from Gelephu onward.

ERPC Secretariat received a letter from Director (GM), CEA vide no. 8/X/Tech/GM-2008/1385 dated 12.08.2008 indicating alternative evacuation arrangement of Kiruchu power through newly constructed 132 kV D/C

Deothang-Rangia transmission line as indicated in the attached letter of the Director General, Department of Energy, Ministry of Economic Affairs, Bhutan addressed to Joint Secretary (Hydro), Ministry of Power, Government of India. It has been submitted by Bhutan in the above cited letter that, as per the agreed minutes of the Plan-Talks on Indo-Bhutan Development Co-operation Programme held in New Delhi during 23rd-28th December 2002, 132 kV Deothang-Rangia line had been constructed mainly to improve the reliability of evacuation of Kiruchu power to India. The portion of the Deothang-Rangia line falling within the Bhutan territory was completed and test charged on 10th January 2007 and subsequently commissioned on 17th January 2007. The portion of the line falling within the Indian territory terminating at 132 kV Sub-station at Rangia in Assam has also been commissioned and was successfully test charged on 31st March 2008. The bay extension work at Deothang and Rangia Sub-stations have been completed. Thereafter Department of Energy, Government of Bhutan have been following with the Ministry of Power, Government of India and PTC India Ltd to formalize evacuation of Kiruchu power through this newly constructed line.

PTC vide their letter no. C/PTC/DO/1249 dated 30.04.2008 had informed Bhutan that the change of delivery point for Kiruchu power need not be insisted by Bhutan, particularly when it is going to cost additional transmission charges and losses. PTC has indicated that the additional burden to the existing customer of Kiruchu power in India would be 50-55 Paise/kwh on account of transmission charges and losses in the Assam system. PTC has further stated that Assam has not shown willingness to absorb power to be wheeled through Deothang-Rangia line as this would result in curtailment of equivalent power from other central sector project which provide power for their base load. Bhutan has requested to make the Deothang-Rangia line operational immediately to avoid theft of line materials and most importantly to benefit from the increased reliability of evacuation of Kiruchu power to India. Bhutan had requested to resolve the issue by the Indian side at the earliest.

In response to CEA letter dated 12.08.2008 for comments on this issue, ERPC vide Fax Msg No. 346 addressed to Chief Engineer (GM), CEA dated 27.08.2008 had made the following comments :

- 1) It is not clear from the documents furnished by CEA whether Kiruchu power would be evacuated through both the existing and the new lines.
- 2) Rangia Sub-station is located in the NER grid. Therefore, the beneficiaries of Kiruchu would have to bear additional transmission losses and additional transmission charges of North-Eastern Region.
- 3) The newly built line would put substantial extra burden on the beneficiaries of Kiruchu.

Finally, ERPC suggested that while finalizing the operation of 132 kV Deothang-Rangia line for evacuation of Kirichu, the views of beneficiaries of Kirichu should be taken into consideration.

It is understood that recently MoP, GoI held a meeting on this matter with the beneficiaries of Kirichu. The beneficiaries present in the meeting may please indicate the outcome of the meeting.

Members may please discuss and opine.

Deliberations in the Commercial Sub-Committee Meeting

ERPC made a presentation highlighting the issues involved in operationalising the 132 kV Deothang-Rangia transmission line for evacuation of Kirichu power from Bhutan.

In this connection, it was informed by DVC representative that in the meeting convened by Ministry of Power, Government of India recently, Ministry's proposal of giving some share from Kirichu to Assam and taking out equivalent quantum of central sector share from Assam from the existing allocation was not agreed to by Assam.

CE(Comml), WBSEDCL proposed that the additional charges on account of transmission loss and transmission charges be shared by all the constituents of ER as ER Pool cost. This was, however, not agreed by the other constituents present in the meeting.

In conclusion, Member Secretary, ERPC noted that the line has been constructed as per the international agreement between Government of India and Royal Government of Bhutan. Operationalisation of the line would make the evacuation system more reliable. Beneficiaries must explore the possibility of making use of this line and payment of associated charges.

DVC and WBSEDCL, both submitted that they would take up the matter with MoP with the request to associate ERPC while finalizing the decision in this regard.

ITEM NO. 6 INCENTIVE ENERGY STATEMENT FOR NTPC STATIONS IN EASTERN REGION FOR THE PERIOD APRIL, 2008 TO JUNE, 2008

The provisional incentive energy statement for the period from April'08 to June'08 was issued by ERPC Secretariat vide its letter No.ERPC/COM-I/REA/2008/2729-60 dated 21.08.2008. As per the statement issued as above, the incentive energy eligible in respect of NTPC stations in ER were as under:

Farakka STPS : 189112.53 MWH; Kahalgaon STPS Stage-I : 254721.28 MWH and Talcher Stage – I : 307799.55 MWH.

The incentive energy as above booked to respective beneficiaries is furnished in Annexure - IV.

Members may please note.

Deliberations in the Commercial Sub-Committee Meeting

Members noted.

ITEM NO.7 VISIT BY ERPC TEAM TO NHPC'S TEESTA STAGE-V SITE FOR ON- THE-SPOT STUDY AFTER HIGH SILT PROBLEMS LEADING TO STOPPAGE OF GENERATION – REPORTING THEREOF.

Teesta Stage-V Power Station had to be completely shutdown for 44 days in 2008-09 due to high siltation. In addition to the loss of generation suffered by NHPC, the Eastern Regional constituents also suffered due to non-availability of cheap hydro power from Teesta Stage-V Hydro Power Station. In the 7th meeting of ERPC held at Ranchi on 26.07.2008, in the course of discussions on deemed generation of Rangit HPS, it was decided that “Member Secretary, ERPC would convene a meeting at Teesta Stage-V in which, besides ERPC, ERLDC & NHPC, experts from all beneficiary constituents would also participate and to take stock of the situation and submit a report to Chairperson, ERPC. In future, while deciding the claim of deemed generation etc of Teesta Stage-V, if any, the findings and recommendations would also be considered”.

Accordingly, ERPC Secretariat held a meeting on 29th August 2008 at Teesta Stage-V, Baltur East Sikkim in which besides the representatives of NHPC, representatives from GRIDCO, OHPC, WBSSEDCL, Government of Sikkim, ERLDC and ERPC were present. The members also made an on-the-spot visit of the dam site of Teesta Stage-V.

In the meeting at Teesta Stage-V, Shri D. Chattopadhyay, Chief Engineer (I/c), Teesta (Stage-V) PS gave a detailed presentation covering every aspect related to the problem. He also gave a video presentation which captured aerial view of the upstream Teesta River to pin point the problem areas. After the detailed presentation, the following points emerged :-

- 1.a) On 17th May 2008, it was observed that silt content surpassed 11995 PPM and powerhouse was shutdown on 17th May 2008 for 3 days upto 19th May 2008 when the silt content came down to around 5000 PPM.
- b) Again, on 4th June 2008, the silt content rose to beyond 9000 PPM & powerhouse was shutdown on 4th June 2008 and power generation resumed on 5th June 2008.
- c) On 10th June 2008, the PPM was observed to be above 10000 and powerhouse has shutdown for 12 hours.

- d) On 12th June 2008, the PPM content was observed to be above 18000 PPM and powerhouse was shutdown. The PPM rose to above 100000 and remained continuously high leading to prolonged shutdown upto 23rd July 2008. The reservoir was flushed during this period and then filled up. The generation was resumed on 25th July 2008.
- e) NHPC tried to locate source of silt. Landslides were reported in a tributary called Tolunmchu. Aerial surveys were carried out to assess the extent of damage.

2. The siltation problem faced in the year 2008 was unprecedented as was evident from the following table presented during deliberation by NHPC :

Period (Year/ Month)	Unit	April (Max/Min)		May		June		July (Max/Min)	
		Max	Min	Max	Min	Max	Min	Max	Min
Year-2000	PPM	329	72	1767	267	2214	419	2405	1292
Year-2001	PPM	543	154	3520	536	5778	1751	1918	1615
Year-2002	PPM	3369	389	1228	1226	4053	1298	4130	3258
Year-2003	PPM	1373	1301	1338	1251	3092	1275	10338	2565
Year-2004	PPM	853	834	1463	804	3100	1280	2900	2575
Year-2005	PPM	4756	108	2048	80	1747	169	2983	260
Year-2006	PPM	260	110	1021	270	1367	570	1309	669
Year-2007	PPM	172	147	479	170	3306	320	2258	907
Year-2008	PPM	9398	133	21580	780	100050	2070	33391	2125

It was stressed by NHPC during presentation that the siltation problem was unique and NHPC had no clue before hand for such a natural calamity and its origin.

It emerged from the presentation that on the upstream side there are a number of major tributaries of river Teesta. One of such tributaries is Tolungchu. There was heavy landslide and consequent siltation on both sides of Tolungchu as was captured pictorially during aerials survey.

It was clarified by Shri P. Wangchen, Secretary (Power), Government of Sikkim that the area adjoining the tributary Tolungchu is quite inaccessible. There was no road to approach the tributary. In fact, he informed that because of inaccessibility of the entire upstream course of Teesta, it was not possible to immediately find out the source of siltation. He thanked NHPC for making sincere efforts in locating the source of siltation problem. He assured that Government of Sikkim in co-ordination with NHPC would take necessary action to reduce the siltation problem in future.

3. The origin of the siltation problem lies in Tolungchu tributary on both sides of which are having dense reserved forest. Therefore, the involvement of Government of Sikkim particularly the Deptt. of Environment & Forest is required.

After a thorough deliberation, the followings were decided unanimously :

- a) As per the data furnished by NHPC, the siltation problem faced by Teesta (Stage-V) in 2008 was un-expected and was beyond the control of NHPC.
- b) Teesta (Stage-V) PS remained under shutdown as the siltation level reached much higher than the permissible limit of 5000 PPM. In fact, the highest PPM recorded was of the order of 1,00,000.
- c) On suggestion of Member Secretary, ERPC, NHPC agreed to undertake the catchment area treatment. Shri P. Wangchen, Secretary (Power), Government of Sikkim agreed to extend necessary assistance to NHPC to undertake the work.
- d) NHPC will be monitoring the catchment area through remote sensing studies in future.

This is for the information of the members.

Deliberations in the Commercial Sub-Committee Meeting

Members present in the Commercial Sub-Committee meeting noted the information furnished in the agenda including the decision taken in the meeting held on 29th August 2008 at Teesta Stage-V.

On query from ERPC, NHPC representative from Teesta Stage-V informed that survey is in progress for undertaking the catchment area treatment as well as monitoring the catchment area through remote sensing studies. Further development in this regard would be communicated in due course.

ITEM NO. 8 SCHEDULING OF LONG TERM POWER FROM DVC STATION TO NR AND WR

GoI vide its different orders has allocated LTOA power from Mejia TPS of DVC to utilities of NR. Long term agreement between MP and DVC is already in place. Such agreements are purely bilateral in nature. Schedule for such transactions are essentially to be agreed to between buyer and seller and accordingly RLDCs may be advised to incorporate the same at the boundary schedule. Similarly any request for revision shall also have to be mutually agreed to between concerned buyer and seller. It is noticed that during outage of Mejia units request of revision of schedule at times is not agreed to by the buyer utility(ies) resulting in low frequency operation.

CERC vide its order dated 16th October 2008 against Petition No. 115/2008 (suo-motto) has under Section 142 of the Act stated considering imposition of penalty of Rs. 1 lakh for each violation that includes overdrawal in each time block of 15 minutes, each reported overdrawal being considered a separate and distinct offence.

Under the circumstances and in the interest of DVC, it is proposed that DVC as a seller of this LTOA power may co-ordinate with its buyer for an agreed scheduling and revision modalities and advise ERLDC for incorporating the same at its boundary. *(Issue raised by ERLDC)*

Members may please discuss and opine.

Deliberations in the Commercial Sub-Committee Meeting

SE (Comml), ERPC explained in details the problem being faced by ERLDC regarding scheduling of export of DVC power from Mejia U # 5 & 6 to Madhya Pradesh. ERLDC representative present in the meeting further elaborated this issue. CE (Comml), DVC present in the meeting assured that they had already taken up with Madhya Pradesh for addressing the issue.

ITEM NO.9 NON-REGISTRATION OF MANIQUI (DVC) – CHANDIL (JSEB) TIE IN SEM METERED DATA FOR THE DATES 21.01.08 & 22.01.08.

It was pointed out by DVC vide their letter No. LD/25/UI/1067 dated 25.02.08 that actual power flow had taken place via 132 KV Manique(DVC) – Chandil(JSEB) tie line from DVC to JSEB on 21.01.08 & 22.01.08, though it was not registered in SEM.

Therefore, vide letter No.ERPC/COML-II/UI-Corr/2006-07/6811-13 dated 27.02.08 of ERPC, DVC was requested to send the required data for the above mentioned line for the dates 21.01.08 & 22.01.08 to ERLDC / ERPC along with the Half-hourly MW flow as well as KWH meter reading from the records of the respective Sub-station logbook/meter etc for study and further necessary action. Accordingly, DVC had submitted hourly reading in MWH from their Sub-station TVM readings for 21.01.08 & 22.01.08 and the same was sent to JSEB for verification at their end vide ERPC letter dated 20.03.08.

It is proposed that if JSEB agree, the issue may be settled between JSEB & DVC, considering the TVM readings submitted by DVC for the dates 21.01.08 & 22.01.08 for power flow via 132 KV Manique (DVC) – Chandil (JSEB).

In the 7th Commercial Sub-Committee meeting, JSEB representative mentioned that they would convey their decision by the end of July 2008. Correspondence has also been made with JSEB by ERPC in this regard, but till date no communication has been received from JSEB on the issue.

Therefore, JSEB is requested to convey their decision in this meeting so that the issue may be settled.

JSEB and DVC may please note and discuss.

Deliberations in the Commercial Sub-Committee Meeting

CE (Comml), JSEB informed that they would convey their decision within a fortnight from today (11.11.2008).

ITEM NO.10 METERING PROBLEM IN 132 KV JAMTARA(JSEB)-MAITHON(DVC) LINE FROM 03.07.2007 - 09.07.2007

The issue was discussed in the 6th & 7th Commercial Sub-Committee meetings regarding settlement of discrepancy in UI amount due to meter reading problem in the 132 kV Jamtara-Maithon line for the week from 03.07.07-09.07.07.

After deliberation of the same in these meetings, it was proposed to consider average reading of SEM at Maithon end of 132 kV Jamtara-Maithon line for two weeks prior to week 03.07.07-09.07.07 and also reading of two weeks after 09.07.07.

In the 7th Commercial Sub-Committee meeting, JSEB was requested to give its consent regarding the proposal of settlement to make up the discrepancy due to the incorrect/absence of meter reading at both ends of the above mentioned line for the said week.

JSEB representative mentioned that they would convey their decision by the end of July 2008. Correspondence has also been made to JSEB by ERPC in this regard, but till date no communication has been received from JSEB on the issue. Therefore, JSEB is requested to convey their decision in this meeting so that the issue may be settled.

JSEB & DVC may please note and discuss.

Deliberations in the Commercial Sub-Committee Meeting

CE (Comml), JSEB informed that they would convey their decision within a fortnight from today (11.11.2008)

ITEM NO.11 METERING ARRANGEMENT AT MALBASE (BHUTAN)

220 / 66 kV ICTs have been commissioned at Malbase Sub-station of Bhutan. For the purpose of UI calculation and subsequent apportioning for Tala and Chukha HEP generation, the drawals at Malbase Sub-station by Bhutan need to be calculated 15 minute blockwise. Powergrid and PTC may discuss with BPC for installing SEM at both sides of 220 / 66 kV ICT 's installed at Malbase Sub-station. Matter was brought to the notice of PTC

vide ERLDC letter no. ERLDC/EASS/2008 dated 12.05.2008.
(Issue raised by ERLDC)

Members may discuss and approve.

Deliberations in the Commercial Sub-Committee Meeting

ERLDC made a presentation indicating the revised configuration and the requirement of the new meters for apportioning of Tala and Chukha power for the purpose of energy accounting. It was decided that PTC would made payment to POWERGRID for installation of the additional meters required for the newly commissioned transformer. The approximate cost would be Rs.2 lakhs which would be paid by PTC to POWERGRID. Further, PTC informed that the cost so incurred will have to be borne by the beneficiary constituents of Tala and Chukha.

ITEM NO.12 METERING ARRANGEMENT AT BARHI AND RAJGIR

At Barhi Sub-station of DVC, only one meter is used for measurement of energy for Barhi-Rajgir 132 kV S/C and Barhi-Biharshariff 132 kV S/C feeders. Further, in the event of any outage of 132 kV Barhi-Rajgir circuit, power is availed at Rajgir Sub-station of BSEB through a T-arrangement from Biharshariff-Barhi 132 kV line. During the Commercial Committee meeting at Kolkata held on 24.06.2008, it was decided that two separate meters shall be installed at Barhi end of DVC S/s for measurement of energy feeder-wise and one additional meter shall be installed at Rajgir S/s for measurement of energy if Rajgir avails power through T-arrangement from Barhi-Biharshariff line. Powergrid has already taken up jobs for replacement of old meters at the Sub-station located within Jharkhand and Bihar. Actions may be initiated by DVC and BSEB for installation of these meters at the earliest.
(Issue raised by ERLDC)

Members may discuss.

Deliberations in the Commercial Sub-Committee Meeting

ERLDC representative made a presentation indicating the present metering arrangement at Barhi, Rajgir and Biharshariff and the proposed metering arrangement at Barhi and Rajgir. It was decided that ERLDC would hold a separate meeting with BSEB and DVC to sort out the issue. Chief Engineer (Transmission), DVC would be the Nodal Officer from DVC and Shri Jitendra Kishore, SE (CRITL), BSEB would be the Nodal Officer from BSEB.

ITEM NO.13 AGENDA POINTS SUBMITTED BY POWERGRID

A) REPLACEMENT OF VARIOUS OLD SWITCHGEARS AND PROTECTION RELAYS IN THE STATIONS OF POWERGRID ER-I

i) Replacement of old ABCBs at Purnea with SF6 Type CBs (ABB make)

At Purnea S/S, there are 6 sets of ABCBs, the performance of which are not reliable. The CBs are already 22 years old and obsolete and therefore, getting spares is very difficult. In case of any major problem in the CBs, it may lead to long outage thus resulting into the problem of power evacuation from the 220 / 132 kV sub-station. Hence, the ABCBs are required to be replaced immediately with SF6 CBs as per modern trend. The cost involvement for the replacement will be Rs.99 lacs (approx.)

ii) Retrofitting of BOMCO & GRPS make Isolators and Earth Switches at Purnea S/s

There are some 22 years old and obsolete pneumatic driven isolator and earth switches in the 220 kV/132 kV Purnea S/S. The isolators and earth switches are giving repeated problems and requiring frequent maintenance. As the equipments are very old, the service / spare for the equipments are also not available. Due to problem in these isolators / earth switches, power supply from 220 / 132 kV Purnea S/S to BSEB system frequently gets interrupted. These isolators and earth switches are required to be retrofitted immediately. The cost involvement for the retrofitting will be Rs.70.00 lacs (approx.)

iii) Retrofitting of Differential Relays of the Transformers connected with BSEB / JSEB at Jamshedpur and Biharshariff S/S (Make: ABB)

At Biharshariff S/S, there are 3 nos. of 315 MVA, 400 / 220 kV ICTs and at Jamshedpur, there are 2 nos. 315 MVA, 400/220 kV ICTs for feeding power to BSEB/JSEB respectively. These ICTs are catering major load of BSEB/JSEB systems. 2 nos. ICTs at Biharshariff and 2 nos. ICTs at Jamshedpur were commissioned in 1991/92. The main static type differential relays used for the protection of the ICTs are very old and obsolete due to which the manufacturer is not interested in providing any support services for repairing etc. In addition to that, in the ICT feeders disturbance recorders are also not installed, for analyzing the disturbances in the ICTs. Considering the high rate of failure of the ICTs in the recent times, it is proposed to replace the old differential relays with numerical type of differential relays having disturbance recorder feature. Therefore, in addition to having reliable

protection, these new differential relays will help in analyzing the fault. The total cost involvement for the replacement of differential relays at Biharshariff and Jamshedpur will be Rs. 18 lacs (approx.).

iv) Replacement of Pilot Wire Protection at Purnea S/S for the Kishanganj Line.

As per the earlier scheme, the 132 kV Kishanganj feeder was connected to nearby BSEB S/S in Purnea (1 KM away). Accordingly, pilot wire protection was provided for the protection of the said line. However, later on this feeder is terminated at Kishanganj station of BSEB, which is around 70 KM from Purnea. As the pilot wire protection cannot be used for the said length of the line, therefore, the line is presently protected only by back up over current protection having high time delay. Hence, providing of a distance protection in the said feeder is required very urgently. For providing a modern numerical type distance protection relay in this feeder, total cost involvement will be Rs.2.5 lacs (approx.)

v) Replacement of old Distance Protection Relays of Biharshariff and Jamshedpur S/S (Make : ABB)

The Biharshariff and Jamshedpur S/S are very important stations of POWERGRID having connection with the generating stations as well as having inter-regional tie lines. These stations are also feeding important loads of BSEB/JSEB. In these stations the distance protections provided in some of the old feeders, commissioned in the year 1991-92 are quite obsolete and hence giving frequent problems, putting the system in danger. The distance protection relays are now not repairable and the manufacturers have also stopped providing services for these relays. Hence, the reliable operation of these feeders these old relays are required to be replaced immediately. At Jamshedpur S/S, 4 relays and at Biharshariff S/S 5 relays are required to be replaced and replacement cost of these old relays with numerical relays the cost involvement will be Rs.20 lacs (approx.)

Members of OCC have already agreed for the replacement of the above on operational ground. Approximate cost for replacement is Rs.2.10 crores.

Deliberations in the Commercial Sub-Committee Meeting

Commercial Sub-Committee members noted the consent of the members of OCC regarding replacement of the above on operational ground. After deliberations, Commercial Sub-Committee recommended replacement of the above at a total cost of Rs.2.10 Crores subject to approval in TCC and ERPC meetings.

B) PROVIDING BUS SELECTION SCHEME IN THE FEEDERS / ICTs AT 220 KV BIHARSHARIFF BSEB S/STN.

BSEB Biharshariff S/S is presently having double main and transfer bus arrangement and accordingly all the ICT incomers and the line feeders are connected to both the main buses. However, as there is no bus selection scheme available through the bus isolators, therefore, in case of shutdown of any of the 220 kV bus, the ICT incomers and the outgoing feeders connected to that bus are to be switched off. Due to the same, POWERGRID is facing problem in taking the shutdown of the ICTs. Hence, this is not desirable. BSEB is to provide the bus selection scheme immediately. This has already been pointed out by protection committee earlier.

All the OCC constituent members agreed in principle to the above proposals.

Deliberations in the Commercial Sub-Committee Meeting

BSEB suggested that the work may be carried out by POWERGRID on deposit work basis.

ITEM NO.14 ANY OTHER ITEM WITH PERMISSION OF THE CHAIR

A) Allocation from the 15% Unallocated portion of ER Central Sector Power (Agenda Raised by GRIDCO)

Current average demand of Orissa is 2350 MW and the peak load demand is hovering around 3000 MW. The supply situation is almost matching the demand.

As per the CEA report on seventeenth electrical power survey of India the peak demand of Orissa in the year 2008-09 & 2009-10 will be 3257 MW and 3633 MW respectively.

Since current demand supply situation is neck to neck, days are not far away when the State will face severe power shortage keeping in view the rapid industrialization and massive rural electrification in the State.

The situation is more or less same in all other States of Eastern Region. In such a scenario it is high time Center should consider restoration of total unallocated 15% share of ER CGSs to ER constituents.

Members may deliberate and decide further course of action.

Deliberations in the Commercial Sub-Committee Meeting

Member Secretary, ERPC observed that Commercial Sub-Committee cannot take a decision regarding allocation of 15% unallocated power from ER ISGS among the ER constituents. He informed that the provision of 15% unallocated power has been kept to allow MoP, GoI to re-allocate same among the different constituents depending on several considerations. This aspect cannot be deliberated in the Commercial Sub-Committee meeting of ERPC. He advised GRIDCO to approach MoP on this issue. On request of GRIDCO, it was decided to include this as an agenda item of ensuing TCC and ERPC meetings.

- B)** In the provisional order of CERC dated 16.01.2007, there was no scope for majoration factor for the private transmission entrepreneurs. In its final order dated 28.04.2008, Hon'ble Commission made provision of 10% of the annual fixed cost towards majoration factor for the private transmission entrepreneur. After the final order, GRIDCO has been duly paying the claim towards transmission majoration factor. Though GRIDCO had no complain in paying the arrear dues towards majoration factor for the period from the date of provisional order to the date of final order, GRIDCO has its reservation on the claim of interest on the same. GRIDCO feels that interest should be charged from the date of final order.

In the matter GRIDCO wrote to CERC requesting clarifications. CERC advised to approach the Commission for any clarification, only through a petition. Before going to CERC with a petition, GRIDCO desires a deliberation and suggestion of the House in the matter. **(Agenda Raised by GRIDCO).**

Deliberations in the Commercial Sub-Committee Meeting

Member Secretary, ERPC advised GRIDCO and POWERGRID to settle the issue among themselves and associate POWERLINK in the discussions.

The meeting ended with a vote of thanks to the chair.