

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

No. ERPC/COM-I/GEN/2008/6083-6107

Dated : 23.01.2008

To : As per list

Sub : Minutes of 6<sup>th</sup> Commercial Sub- Committee meeting of ERPC  
held on 16.01.2008 at ERPC, Kolkata

Sir,

Enclosed please find minutes of the 6<sup>th</sup> Commercial Sub-  
Committee meeting of ERPC held on 16.01.2008 at ERPC, Kolkata.  
Observations / Amendments, if any, may please be furnished to ERPC for  
further necessary action.

Enclosure : as above

Yours faithfully,

--- Sd ---

( R.K.GROVER )  
MEMBER SECRETARY

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- 20) VICE PRESIDENT(COMMERCIAL), PTC, 2<sup>ND</sup> FLOOR, NBCC TOWER, BIKHAJI CAMA PLACE, NEW DELHI – 110 066 (FAX: 011 4165 9504 )
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**BSHPC IS REQUESTED TO NOMINATE COMMERCIAL HEAD OF THEIR ORGANISATION AS MEMBER OF THE COMMERCIAL SUB-COMMITTEE OF ERPC.**

**EASTERN REGIONAL POWER COMMITTEE  
14 GOLF CLUB ROAD, TOLLYGUNGE, KOLKATA-700 033**

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**MINUTES OF MEETING OF THE 6<sup>TH</sup> COMMERCIAL SUB-COMMITTEE OF ERPC HELD ON 16.01.2008 (WEDNESDAY) AT 1100 HRS. AT ERPC, KOLKATA**

The list of participants is given in **Annexure A**.

Shri R.K. Grover, Member Secretary, ERPC welcomed the participants in the 6<sup>th</sup> Commercial Sub-Committee meeting of ERPC. He informed that a number of vital issues has been listed for deliberations in the agenda. He requested the constituents to have a threadbare deliberations on the issues and arrive at a consensus decision.

He also mentioned that ERPC Secretariat had invited Shri M.K. Ray, Director (Comml), WBSEDCL to deliver a lecture on power trading to the participants in the Commercial Sub-Committee meeting to help the participants to develop a better understanding on the rapidly changing scenario in this field. Shri M.K. Ray, Director (Comml), WBSEDCL informed that they had attended an intensive training on power trading including the power exchange at NORD POOL, Norway. He observed that even though the power situation is entirely different in the two continents -- one having perennial deficit and the other having abundant surplus, still the lecture would help the participants to understand the changes taking place in the western world and its implication in the Indian electricity sector. Thereafter, Shri Ray along with Shri S.S. Barpanda, Chief Manager, ERLDC gave a presentation, the salient points of which are given in the **Annexure B**.

Member Secretary, ERPC then requested Shri J. Bandyopadhyay, SE (Commercial), to take up the agenda items for discussions.

**ITEM NO. 1 CONFIRMATION OF THE MINUTES OF THE 5TH COMMERCIAL SUB-COMMITTEE MEETING HELD ON 14.07.2007.**

The minutes of the 5th Commercial Committee meeting were issued vide letter no. ERPC/COM-I/GEN/2007/2535-59 dated 19/20.07.2007. No comment from any constituent on the minutes of above meeting has been received.

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

**Deliberations in the Commercial Sub-Committee**

*SE (Comml), ERPC informed that ERPC Secretariat had not received any request for amendment to the minutes of the 5<sup>th</sup> Commercial Sub-Committee meeting issued vide letter no. ERPC/COM-I/GEN/2007/2535-59 dated 19/20.07.2007.*

*Members present in the meeting confirmed the minutes of the same.*

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

Summary of UI Receipt / Payment status for bills up to 23.12.2007 (week – 38 of 2007-08) as received from ERLDC is indicated at Annexure-I.

Members may please note. It is observed from Annexure –I that the outstanding UI charges payable by BSEB is to tune of Rs. 61.54 Crs. for which ERLDC has already requested BSEB for liquidation. BSEB is requested to settle the account at the earliest.

### **Deliberations in the Commercial Sub-Committee**

*Members noted with concern the outstanding UI charges payable by BSEB, JSEB, Sikkim, NR and WR. Members requested BSEB, JSEB and Sikkim to liquidate the outstanding dues immediately. Members also requested ERPC to take up the issue of outstanding dues with NR and WR.*

## **B) REACTIVE ENERGY CHARGES -- PRESENT STATUS**

The updated position of Receipt / Payment in the Pool as on 03.01.08 as received from ERLDC on account of Reactive Energy Charges as per published account up to 23.12.07 ( 2007-08) is indicated at Annexure-II.

Members may please note.

### **Deliberations in the Commercial Sub-Committee**

*Members noted that an amount of Rs.7,70,246/- had been collected in the ER pool as on 03.01.2008 in the financial year 2007-08 on account of reactive energy charges. It was clarified by ERLDC that the total amount lying the pool was about Rs. 77 lakhs.*

*ERLDC was requested to furnish the latest status of reactive energy pool account indicating the yearwise receipt and expenditure, if any, therein.*

*Members also noted the payment of Rs.40,000/- each on account of Workshop on Black Start Procedure conducted by ERLDC for GRIDCO, and DVC engineers. A further amount of Rs.40,000/- is slated to be spent from this account for the above training for WBSEDCL/WBSETCL engineers during the month of February 2008.*

*Members noted that, in accordance with the decision taken in the erstwhile EREB forum, capacitor banks were proposed to be installed in erstwhile WBSEB system as a part of system strengthening scheme utilizing the fund lying the reactive pool account. It was informed by WBSEDCL that, with the unbundling of WBSEB, proposal has not been implemented.*

*Members present in the Commercial Sub-Committee meeting opined that, since the present regulation of CERC stipulates the utilisation of fund available in the reactive energy pool account for training purposes, therefore, WBSEDCL should not proceed further in this matter. WBSEDCL agreed with the suggestion.*

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

The status of settlement of IRE account amongst ER, SR & NR as on 03.01.2008 as received from ERLDC is indicated below :

For the year 2007-08, IRE account between ER-SR reconciled and settled with SRLDC upto the week 26 i.e. upto 30.09.2007.

The net IRE amount receivable from NR upto 27.08.06 is Rs. 11264.63780 lakhs. out of which an amount Rs. 9642.74403 lakhs is still pending.

Members may please note.

**Deliberations in the Commercial Sub-Committee**

*Members noted the outstanding amount of Rs.9642.74 lakhs against Northern Region. ERPC Secretariat informed that the matter had already been taken up with NRPC Secretariat for early settlement of the outstanding dues. Members in the Commercial Sub-Committee suggested that ERPC should hold a meeting with NRPC for speedy settlement of this pending amount.*

**ITEM NO. 3 DEEMED GENERATION OF RANGIT HPS DURING THE PERIOD OF FLOOD AND RESTORATION THEREOF**

It has been reported by NHPC that on 11.07.2006 at 00:30 hrs, a flash flood was observed at the Dam site of the Rangit Power Station with a discharge of 1405 Cumecs. The flash flood carried lot of wooden logs, silt and mud. The reported silt content was 51451 PPM. All the three machines were in operation at full load at that time. Due to unprecedented floods carrying huge silt, trash, etc., all the three machines had to be desynchronised and shut down at 01:30 hrs.

NHPC further reported that, as the silt removal process continued on 13.07.2006, the power station got flooded through a cooling water pipe which is tapped from the penstock. The Power Station upto EL 501 M i.e. service bay level was submerged, thus flooding various equipment such as turbines, generators, excitation panels, drainage/de-watering panels, motors etc. All the three units were synchronised after restoration as given below :

- i) Unit-I : 01/10/2006
- ii) Unit-II : 18/10/2006
- iii) Unit-III: 13/10/2006

Clause no. 41 of the CERC regulations, dated 26.03.2004 states that “(1) In case of reduced generation due to the reasons beyond the control of generating company or on account of non-availability of Board’s / transmission licensee’s transmission lines or on receipt of backing down instructions from the concerned Regional Load Despatch Centre resulting in spillage of water, the energy charges on account of such spillage shall be payable to the generating company. Apportionment of energy charges for such spillage among the beneficiaries shall be in proportion of their shares in saleable capacity of the generating station. (2) Energy charges on the above account shall not be admissible if the energy generated during the year is equal to or more than the design energy.”

NHPC has claimed that the above case of shut down of the power station on 11.07.2006 and the flooding of the power station on 13.07.2006 and the consequent loss of generation till the restoration of the units after flooding is beyond the control of the generator i.e. NHPC. The committee constituted by the Central Electricity Authority (CEA) vide order no. CEA/5-41(18).Secy./2006/740 dated 05.09.2006 to investigate the flooding of the Rangit Power Station has not found any operational lapse, thus justifying that the flooding could not have been avoided under the circumstances.

NHPC has submitted the details of the inflow, total generation possible with this inflow, Actual Generation, Design Energy and the Deemed Generation for the affected period.

In view of the above, NHPC has requested certification of deemed generation to the extent of 137.51 MU for the year 2006-07 for the Rangit Power Station. The details of deemed generation claimed by NHPC for the above period are enclosed at Annexure – III.

The issue came up for discussion in the 4<sup>th</sup> TCC meeting of ERPC held on 21.09.07 at Gangtok and in the meeting Member Secretary requested the members to examine the proposal of NHPC and give their considered views on this issue.

The views expressed by the beneficiary members of Rangit HPS in the TCC meeting were as follows:

*i) The period of shut down was apparently unreasonably high and needed thorough investigation to verify that sincere efforts were made by NHPC to restore the units at the shortest possible time.*

*ii) NHPC had mentioned in the proposal of deemed generation, the constitution of an Enquiry Committee by CEA to investigate the flooding of the Rangit HPS. The Report should be made available by NHPC to the beneficiaries of Rangit HPS in ER to form an objective view on this matter. (NHPC has subsequently submitted a copy of the said report to the concerned members.)*

*iii) WBSEDCL drew the attention regarding the clause of the Power Purchase Agreement they had entered with NHPC wherein it has been mentioned that in the event of NHPC not able to generate due to force majeure conditions, NHPC should compensate the beneficiaries as a part of contractual obligations. On the contrary, in this case, NHPC, instead of compensating the beneficiaries, are claiming deemed generation, thereby burdening the beneficiaries financially.*

*NHPC representative submitted the followings:*

*i) Claim of deemed generation is in accordance with the provision of Clause no: 41 of CERC Regulation dated 26.03.2004.*

*ii) Deemed generation is for energy charges only, not for Capacity Index enhancement.*

*iii) NHPC had made sincere attempts to restore the units at the shortest possible time. In the Report submitted by CEA, it has been mentioned that “*

*under the prevailing circumstances at that time, the works carried out for rehabilitation of the units by NHPC are in order.”*

However, after detailed deliberation, it was decided by the TCC members to refer the issue to Commercial Sub-Committee for further detailed discussion.

Members may please discuss and decide.

### **Deliberations in the Commercial Sub-Committee**

*NHPC representative gave a detailed account of the incident of flood at the Rangit Power Station and the subsequent efforts made by NHPC authorities for expeditious revival of the units. He emphasized that NHPC had made all out efforts to bring the units on bar at the shortest possible time. In this connection, he mentioned that the Fact Finding Team constituted by CEA also appreciated the efforts made by NHPC in this direction. He further informed that, in case of Naphajhakri which was also flooded, the units could be brought on bar within a month because the flood occurred in the lean season (in the month of September) when water was clean, whereas in case of Rangit, the flood occurred during rainy season when water carried considerable mud, logs and other foreign materials. NHPC had made significant expenditure for the revival of units at Rangit, besides the loss incurred during the above period due to forced shut down of units. Therefore, he requested the constituents to reimburse a portion of the huge loss suffered by NHPC during the period. He further emphasized that the claim of deemed generation is in accordance with the Clause 41 of CERC regulations.*

*Chief Engineer, WBSEDCL stressed that (i) there was no provision in PPA for the deemed generation; (ii) there was no scope for passing on this burden to the consumers by WBSEDCL as the accounting period was over, and closed and the accounts had been audited. Therefore, Chief Engineer, WBSEDCL suggested that NHPC should include this amount as additional expenditure while making the tariff petition in CERC in the next tariff period.*

*BSEB, JSEB, GRIDCO and DVC endorsed the views of WBSEDCL. However, JSEB clarified that deemed generation is on account of reduction of generation for reason beyond the control of the generating station when the units are otherwise ready for generation. He claimed that the units at Rangit were not ready for generation during the period of restoration.*

*Member Secretary, ERPC observed that, when a hydro power station is conceived, it bears some hydrological as well as geological risks. The beneficiaries of the hydro generating stations have to live with this risk. The hydrological risk is covered by concept of deemed generation which developer would get. However, this is a case of force majeure where machines were not available so capacity charges would be nil. Member Secretary, ERPC was of the opinion that energy charges may be shared on 50 : 50 basis by NHPC and constituents.*

*After detailed deliberations, no consensus could be arrived at. Therefore, Member Secretary, ERPC suggested that a separate meeting should be convened to resolve this issue.*

*NHPC and the beneficiary constituents of NHPC present in the meeting agreed with the proposal.*

#### **ITEM NO. 4 PROCEDURE FOR DISBURSEMENT OF UI CHARGES TO OTHER REGIONS – PROPOSAL OF NRPC**

The issue was discussed at the NRPC meeting held on 20/12/2007.

As UI charges payable for a week are generally not received from the constituents of Northern Region at the same time and finally there are few constituents who do not pay for a long time.

As per the existing practice in the Northern Region, while disbursing the UI charges collected in the region for a week, neighbouring Regions (ER & WR) are given priority over other constituents of NR. If payment received in the UI pool account happens to be less than UI charges receivable by WR/ER in a week, then whole amount is disbursed to WR /ER and constituents of NR gets the UI charges till some amount is received further.

The constituents of Northern Region also feel that with the existing procedure of disbursement, the disciplined constituents of Northern Region are suffering due to default in payment of UI charges by some of the constituents. In view of above mentioned factors constituents of NR have requested to review the existing procedure of disbursement of UI Charges so that other regions also get the same priority as the NR constituents.

Accordingly, following options regarding the disbursement of UI Charges are proposed by Northern Region:-

A) UI charges collected in the pool account be disbursed to all the constituents of the pool including neighbouring regions in proportion to UI charges receivable by them, without giving priority to any particular constituent(s) of the pool.

B) If the amount received in the UI pool account is more than UI charges receivable by the neighbouring regions, then the UI charge may be disbursed to the neighbouring regions on the first charge basis and balance be disbursed to the constituents of the northern region in proportion to the UI charges receivable by them. In case, the amount received in the pool account is less, then

i) 50% of such amount may be disbursed to the neighbouring regions in proportion to the UI charges receivable by them, and balance 50% be disbursed to the constituents of northern region in proportion to the UI charges receivable by them, OR,

ii) if the share of the neighbouring regions in the total UI charges receivable by all the constituents of northern region is more than 50%, then the amount received in the NR pool may be disbursed to all the constituents including neighbouring regions in proportion to the UI

charges receivable, otherwise it may be disbursed to neighbouring regions and northern region constituents in 50:50 ratio.

C) Existing method giving priority to the neighbouring regions in the matter of disbursement of UI Charges may be continued.

Members may discuss and opine.

### **Deliberations in the Commercial Sub-Committee**

*SE (Comml), ERPC informed the participants that, as per the existing procedure of disbursement of UI, the inter-regional constituents are accorded highest priority than the regional constituents. In a recent letter, NRPC Secretariat had detailed the problems being faced by them due to inadequate receipt in UI pool and subsequent payment to the inter-regional constituents on first charge basis.*

*NRPC Secretariat had submitted three proposals for disbursement of UI charges. SE (Comml), ERPC explained all the three options as given in the agenda and requested the participants in the meeting to deliberate on this.*

*The constituents of Eastern Region observed that, as per the existing regulations of CERC, payment to the UI pool is to be accorded highest priority. The genesis of the problems of NR lies in the continued default by some constituents in NR which has to be settled by NR itself. Therefore, the constituents of ER unanimously endorsed that the existing method of giving highest priority to the neighbouring region in the matter of disbursement of UI charges should be continued. Further it was felt by the constituent that, with the introduction of differential UI mechanism and the subsequent directive of CERC for utilization of the balance remaining in the pool, the problem being faced by NR at present with regard to payment of UI charges would be considerably lessened.*

*Members present in the meeting requested Member Secretary, ERPC to convey this view to NRPC.*

### **ITEM NO. 5 KAHALGAON STAGE II ( EXTENSION PHASE I ) – ITS GENERATION AND RELATED ISSUES**

A) The Unit No. 5 of Kahalgaon STPS Stage – II ( Extension Phase – I ) generated infirm power to the extent of 14.836 MWH and 1009.018 MWH in the months of April'2007 and May' 2007 respectively. The generation from above unit is likely to commence on regular basis shortly.

The REA for infirm generation as mentioned above was issued by ERPC vide No. ERPC/COM-I/REA/2007/5427-53 dated 20.12.2007.

Before preparation and issuance of REA for infirm energy of Kahalgaon STPS Stage II unit(s), NTPC was requested to clarify certain aspects. The replies received from NTPC in this regard viz. (a) Off-take points of both Kahalgaon STPS Stage I & II are from a common bus (b) UAT for Generator No. 5 is yet to be commissioned. Based on above, the following methodology have been adopted for computation of infirm generation of KhSTPP Stage II units :

- Generator Transformer end meter readings of generators (Nos. 5 to 7, as applicable ) to be submitted by NTPC to ERPC on monthly basis for preparation of REA.
- SEM readings of Generator Transformer end of Generators ( Nos. 5 to 7, as applicable ) to be submitted by NTPC to ERLDC for preparation of UI Account.
- NTPC is to certify whether UAT of generators ( Nos. 5 to 7, as applicable ) has been commissioned or not.
- Till the commissioning of UAT of generator ( Nos. 5 to 7, as applicable ), Normative Aux. consumption to be deducted from Generator Transformer end readings of generator ( Nos. 5 to 7, as applicable ), for the purpose of calculation of sent out energy of generator ( Nos. 5 to 7, as applicable ).
- After commissioning of UAT of generator ( Nos. 5 to 7, as applicable ), 2% for station load consumption to be deducted from Generator Transformer end reading of generator ( Nos. 5 to 7, as applicable ), for the purpose of calculation of sent out energy of Generator ( Nos. 5 to 7, as applicable ).
- From the Total Sent Out energy figure of Kahalgaon Sent Out energy of generator ( Nos. 5 to 7, as applicable ) to be deducted for the purpose of calculation of Sent Out energy of Stage - I i.e. Generators ( Nos.1 to 4 ).

In a further development on the above issue, it is intimated that as per CERC Notification dated 28.12.2007, Terms and Conditions of Tariff ( Fourth Amendment ) Regulations, 2007 have amended Regulation 19 and Regulation 35 in the matter of “Sale of Infirm Power” among other items. The Substituted Amendments of Regulation 19 & 35 shall be as under in both cases :

“ **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 energy shall be applied for reduction in capital cost and shall not be treated as revenue”.

The above CERC amendment is made effective from 00.00 hrs on 07/01/2008.

Members may please note.

### **Deliberations in the Commercial Sub-Committee**

*Members noted the methodology adopted by ERPC and endorsed the same for computation of infirm generation of Khalgaon STPC Stage-II units. Members also noted the amendment of regulations 19 and 35 of the Terms & Conditions of the Tariff being brought out by CERC for sale of Infirm Power.*

*GM, ERLDC requested NTPC as well as NHPC to inform in advance their schedule of infirm power generation for safety and reliability of the grid operation. NTPC and NHPC agreed with this.*

**B)** Further, the listed transmission system associated with Kahalgaon STPS Stage – II (Extension Phase – I) for Eastern region and Inter-Regional involving Eastern Region are as under :

For Eastern Region:

- a) Kahalgaon – Patna 400 kV Quad D/C line
- b) Patna (PG) 400/220 kV Substation, 2 x 315 MVA
- c) Maithon – Ranchi 400 kV D/C line
- d) Ranchi(PG) 400/220 kV Substation, 2 x 315 MVA

Inter-Regional involving Eastern Region:

- a) Biharshariff – Balia 400 kV QUAD D/C line
- b) Patna – Balia 400 Quad D/C line

The REA for the transmission charges including the above lines will be prepared based on the weightage average allocation in line with the relevant CERC tariff regulation.

Members may please note.

**Deliberations in the Commercial Sub-Committee**

*SE (Comml), ERPC informed that 4 nos. of regional elements and 2 nos. of inter-regional elements associated with the Kahalgaon STPS Stage-II (Extension Phase-I) have already been completed. The cost of the regional elements would be added into the regional pool cost whereas the cost of the 2 nos inter-regional elements would be added with the inter-regional pool cost. It was pointed that the transmission system has been planned for evacuation of power from Kahalgaon STPS Stage-II. However, none of the units of the KhSTPS Stage-II has been declared under commercial operation till date. Now the beneficiaries of this power station includes new entities like Gujrat, Himachal Pradesh, Chandigarh, Uttaranchal, etc none of which is having any share from the existing ISGS of the Eastern Region. Therefore, the question remains whether the pool cost including added transmission elements is to be shared by the existing beneficiaries of ISGS of Eastern Region or by the extended beneficiaries of ISGS in the Eastern Region.*

*After detailed deliberations, Powergrid submitted that since the issue involves other regions also, they would revert back on this issue after making due consultation with the other regions. Regarding the provisional tariff, they further informed that Powergrid had filed petition in CERC in respect of some elements only.*

**ITEM NO. 6 ENERGY METER READING DISCREPANCIES OF TALA – SILIGURI FEEDERS OF TALA HYDRO POWER STATION, BHUTAN**

In view of continued inconsistency for months together ( from November' 2006 onwards ) in Energy Meter Reading figures of 400 kV Tala – Siliguri Feeders I to IV, a meeting was convened at Binaguri Powergrid Substation (New Siliguri) on 10.10.2007 to sort out the discrepancies and associated commercial implications. The meeting was attended by the representatives from PGCIL, THPA, PTC, ERLDC and ERPC. In the meeting, discussion with regard to meter reading inconsistency were as under :

*The present status of metering of 400 kV Tala-Binaguri Line I to IV was deliberated in details and the following unanimous decisions were arrived at for speedy implementation :*

*1) Tala Hydro Power Authority (THPA) shall provide Check Meters at Binaguri end for all the four feeders of 400 kV Tala-Binaguri Line. The works have to be completed by October 2007 by THPA at their own cost. PTC and Powergrid would extend assistance to THPA, if any required by THPA in this regard.*

*2) For Feeder I of 400 kV Tala-Binaguri line, there are two Main SEM meters at Binaguri end (one was additionally installed by Powergrid to verify the correctness of the readings of the Main Meter at Binaguri end) with no Check Meter whereas at Tala end there are both Main and Check meters. The readings of Main and Check meters of Tala end are consistent. Similarly, the readings of the two Main Meters at Binaguri are also consistent. However, the readings in this feeder had been consistently higher at Binaguri end than that of at Tala end. It has been reported by Powergrid that L&T, the original supplier and the manufacturer of the meters, had requested for some data of Check Meter at Tala end, for a period of continuous 15 days at least, for analysis purpose. THPA would immediately collect and furnish the requisite data to Powergrid for onward transmission to L&T, so that the reasons of discrepancy in the meter readings at Tala end and Binaguri end could be detected and necessary actions can be taken in this regard.*

*3) Feeder II of 400 kV Tala-Binaguri line has been out of service since December 2006 due to damage of 400 kV XLPE cable at Tala end. Powergrid has reported that theft of conductor has been taking place and causing loss to Powergrid. THPA representative informed that jointing materials had reached Kolkata Port and the necessary work would be undertaken shortly.*

*4) Feeder III of 400 kV Tala-Binaguri line has been made LILO at Malbase. At Malbase end of Malbase-Binaguri line, there are discrepancies in Main and Check meter readings and at Binaguri end Main meter readings are less than the sending end readings at Malbase. Further, at Tala end of the Tala-Malbase line, there is no Check meter. The necessity of the Check meter will arise once the SCADA system will be in place.*

*5) The readings of Tala and Binaguri ends of Feeder IV of 400 kV Tala-Binaguri line are consistent. It has been reported by THPA in the meeting that the display in the Check Meter at Tala end had not been working since April 2007. PTC has to take action to correct the display. It has, however, been pointed out by Powergrid that Data Collecting Device (DCD) is available at Tala. This may be utilized by THPA even in the absence of display.*

*6) At Tala end wherever Check meters are not available / not working, PTC should take immediate action for installation / replacement of requisite meters.*

*7) Testing and calibration of the meters should be done at regular interval in accordance with the provisions of agreement between the PTC India Ltd and Department of Energy, Royal Government of Bhutan. Necessary compliance report should be forwarded to ERPC and ERLDC.*

ERPC vide its letter dated 19.12.2007 addressed to respective authorities have requested for submission of compliance report on the actions envisaged in the above meeting which is awaited.

Further, M/s PTC in their letter dated 26.11.07 informed ERPC that Meter Readings in respect of 400 kV Tala – New Siliguri Feeders I & IV were continuously showing energy imported at New Siliguri (Binaguri) more than the energy exported from Tala end. In this connection PTC requested ERPC that till the issue is settled, REA may be prepared after considering the energy meter reading of Tala end feeder.

It may be intimated that in respect of meter reading figures received for Tala – New Siliguri feeders for the month of December' 07, the sending end meter readings are more than the receiving end meter readings.

Members may please discuss and decide.

### **Deliberations in the Commercial Sub-Committee**

*In absence of representative from PTC and THPA in the meeting, the matter could not be discussed in details. However, SE (Comml), ERPC apprised the present metering status in Tala end and Binaguri end. He informed that as per meter readings available with ERPC for preparation of REA for the month of December 2007, at Tala end :*

- i) Check meter for Tala-Binaguri Circuit I is OK;*
- ii) There was no reading of check meter in Circuit II of Tala-Binaguri line;*
- iii) There was significant difference between the readings of the main and the check meters for Circuit III of Tala-Binaguri line.*
- iv) There was no display in the check meter of Circuit IV for Tala-Binaguri line.*

*Regarding the status of check meter in Binaguri end, it was informed that check meters for Circuit I, II and IV were found to be OK. The reading of check meter for Circuit III could not be verified as the circuit was out of order.*

*It was further informed by SE (Comml), ERPC that, while computing REA for the month of December 2007, it has been found that sending end meter readings were more than receiving end meter readings for all the circuits. This is in contrast to the earlier few months when for some circuits the receiving end meter reading were more than the sending end meter readings. Before drawing any definite conclusion regarding the correctness of the meters, few more months meter readings are required to be monitored.*

*Further, SE (Comml), ERPC brought into the attention regarding the meeting held on 10.10.2007 at Binaguri S/s of Powergrid to sort out the discrepancies and the associated commercial implications. An action plan was chalked out and it was decided that PTC, THPA and Powergrid would submit compliance report to ERPC and ERLDC. It was informed by SE (Comml), ERPC to the members of the Commercial Sub-Committee that, in spite of reminders, the same compliance report is awaited. It was requested to furnish the compliance report at the earliest.*

## ITEM NO.7 REVISION OF UI RATE

The CERC vide its order No. L-7/25(5)/2003-CERC dated 04/12/2007 in petition No.154/2007 has amended Regulation 24&42 of CERC (Terms & Condition of Tariff Regulations) 2004, regarding payment of UI charges. The revised rate of UI charges are as under w.e.f. 00.00 hrs on 07/01/2008.

<u>Average Frequency of Time Block(Hz)</u>		<u>UI Rate (Paisa/Kwh)</u>
Below	Not Below	
-----	50.50	0.0
50.50	50.48	8.0
50.48	50.46	16.0
-----	-----	-----
-----	-----	-----
49.84	49.82	272.0
49.82	49.80	280.0
49.80	49.78	298.0
49.78	49.76	316.0
-----	-----	-----
-----	-----	-----
49.04	49.02	982.0
49.02	-----	1000.0

(each 0.02 Hz step is equivalent to 8 P/Kwh in the 50.5 – 49.80 Hz frequency range, and to 18.0 paise/kWh below 49.8 Hz up to 49.0 Hz.)

CERC vide its Order No. L-7/25(5)/2003-CERC has also mentioned that “In case of thermal generating stations, UI rate for generation above the schedule by coal and lignite fired stations and for the Station burning APM gas shall now be capped at Rs.4.06/Kwh”.

ERLDC requested for discussion on the modalities of calculation of UI charges, in view of above CERC order on the modification of UI rates.

Members may please note and discuss.

### Deliberations in the Commercial Sub-Committee

*SE (Comml), ERPC drew the attention of the members regarding the amendment of regulations 24 and 42 of CERC [Terms & Conditions of Tariff (Regulations) 2004] regarding payment of UI charges. The revised rate of UI would be effective from 0000 hrs of 07.01.2008. He informed that, as per the regulation, in case of thermal generating stations, UI rate for generation above the schedule by coal and lignite fired stations and for the station burning APM gas shall now be capped at Rs.4.06 per kwh. NTPC stations in ER generating above schedule should be paid at a maximum UI rate of Rs.4.06 per kwh. However, when NTPC plants are generating below the schedule, it would pay UI at the normal rate without capping. This was contested by representative of NTPC present in the meeting. He emphasized that the capping should be applicable for generation, both below and above the schedule. He further informed that NTPC has already taken a*

*clarification regarding this from CERC. The other constituents present in the Commercial Sub-Committee meeting did not endorse the views of NTPC representative, as no such regulation has been notified by CERC. It was clarified by ERPC that UI accounting would be prepared by ERPC in accordance with the CERC order no. L-7/ 25(5)/2003-CERC.*

**ITEM NO. 8 COMMENCEMENT OF LONG TERM OPEN ACCESS (LTOA) POWER TRANSACTION BETWEEN DVC AND DTL (BRPL, BYPL & NDPL ) AND RELATED ISSUES**

In line with bilateral agreement by DVC and DTL, LTOA has been granted between DVC and DTL ( BRPL, BYPL & NDPL ). It has been observed that scheduling to this effect has been commenced for the first time w.e.f. 11.12.2007.

The effect of this contracted power (LTOA) has duly been considered in the preparation of REA for the month of December'07 in line with relevant CERC tariff regulation. In a reply, POWERGRID intimated that DTL have become a long term customer of for 230 MW from DVC and 230 MW power may be considered in REA for the purpose of sharing transmission charges by DTL. It is also intimated that this 230 MW power have been allocated to distribution companies 1) BYPL 2) BRPL & 3) NDPL. However, Powergrid is yet to furnish copy of agreement signed with them alongwith other requisite data.

Members may please note.

**Deliberations in the Commercial Sub-Committee**

*Members noted. Further, it was informed by ERPC that ERPC Secretariat has received copies of PPA signed by BYPL, BRPL and NDPL with Powergrid for long term open access of 230 MW from Powergrid.*

**ITEM NO. 9 COMMENCEMENT OF GENERATION FROM TEESTA STAGE - V AND SHARE ALLOCATION**

In a recent communication, NHPC has intimated that Teesta Stage-V H.E. Project is under advance stage of construction and 1<sup>st</sup> unit of the project is expected to be commissioned in January' 2008. For this, NHPC had already entered into Power Purchase Agreement on 09.09.2002 with respective entities of the states of Bihar, Jharkhand, West Bengal, Sikkim and with DVC. It is intimated that NHPC has taken up the matter of issuance of necessary share allocation order for this project, in favour of above mentioned Eastern Region beneficiaries, with MoP, GoI so that it is issued in time.

Members may please note and NHPC may please indicate the share allocation requisitioned by the respective beneficiaries of Eastern Region for this project.

**Deliberations in the Commercial Sub-Committee**

*It was informed by NHPC in the meeting that CEA had also recommended to MoP, GoI regarding allocation of power from Teesta Stage V. The order from Ministry is expected shortly.*

*It was emphasized by ERPC that the modalities of testing of lines and commercial arrangements thereof for charging of Teesta-Binaguri circuit may be finalized before hand and intimated to ERPC for accounting of energy. NHPC informed that they would enter into bi-lateral arrangement with the neighbouring system for this purpose. ERPC requested NHPC to furnish on priority basis the final metering arrangement both at Binaguri as well as Teesta end including meter number, type, etc. Further they should also finalise the modalities of collecting the meter readings on weekly and monthly basis and transmittal of the same to ERLDC and ERPC respectively for UI and REA purposes. ERPC also requested NHPC to furnish the signed copies of all the PPAs with the beneficiaries. NHPC agreed to furnish the same on priority basis.*

**ITEM NO.10 INCENTIVE ENERGY STATEMENT FOR NTPC STATIONS IN EASTERN REGION FOR THE PERIOD APRIL, 2007 TO SEPTEMBER, 2007.**

The provisional incentive energy statements for 2007-08 i.e. for the period from April'07 to March'07 and from April'07 to September' 07 in respect of NTPC stations in ER were issued by ERPC Secretariat vide letter Nos. ERPC/COM-I/REA/2007/3016-43 dated 10.08.07 & ERPC/COM-I/REA/2007/4834-61 dated 12/15.11.07 respectively. The Incentive Energy payable by the beneficiaries of NTPC stations in ER for the period from April' 07 to June' 07 for the year 2007-08 was placed in the 4th TCC meeting held on 21.09.07 at Gangtok, Sikkim. The provisional incentive energy statement from April'07 to September' 07 in respect of NTPC stations in ER as stated is furnished below for information of the members ( please refer Annexure - IV ).

Members may please note.

**Deliberations in the Commercial Sub-Committee**

*Members noted.*

**ITEM NO.11 COMMENCEMENT OF ABT MECHANISM IN THE STATE OF WEST BENGAL**

The state level ABT in West Bengal has been introduced from 01.01.2008 as per the Order dated 30.10.2007 of Hon'ble WBERC. In its letter dated 28.12.07, State Load Despatch Centre, West Bengal ( SLDC, WB) intimated the following :

- a) SLDC, WB will prepare and maintain UI bills and accounts from 01.01.2008 for the state utilities
- b) SLDC, WB will collect ( or pay ) the UI bills of REA from ( to ) ERLDC w.e.f. 01.01.2008.
- c) SLDC-UIFUND-WBSETCL has been opened with AXIS BANK vide A/C No. 116 010 2000 17851
- d) Since 1<sup>st</sup> January, 2008 falls under the week 31.12.07 to 06.01.08, the amount of UI bills from that week onward for West Bengal part may be paid (in case West Bengal a recipient ) to SLDC-UIFUND-WBSETCL instead of the C. E. (Comml.), WBSEDCL.

- e) Similarly, SLDC, WB instead of C.E.(Comml.)WBSEDCL will pay the UI bills (in case payable by West Bengal ) to ERLDC.
- f) UI bills for the day 31.12.2007 will be bi-laterally adjusted with WBSEDCL with UI bill of WBSEDCL for next week.

SLDC, WB requested all concerned to make a note of the above changes.

This is for information of the Members.

#### **Deliberations in the Commercial Sub-Committee**

*Members noted.*

### **ITEM NO.12 CERTIFICATION OF TRANSMISSION AVAILABILITY**

The Availability of POWERLINK lines associated with Tala Transmission system for the year 2006-07 has been issued by ERPC, which was 99.78 % for the year 2006-07.

Members may please note.

#### **Deliberations in the Commercial Sub-Committee**

*Members noted.*

### **ITEM NO.13 A) ISSUES RAISED BY POWERGRID**

#### **I. COMMERCIAL OPERATION OF TRANSMISSION ASSETS**

- a) POWERGRID vide their letter (dated 03.09.2007, 05.09.2007, 06.11.2007 & 11.12.2007) informed that the following assets of POWERGRID have been commissioned :
  - i) 400 kV D/C Biharsharif – Balia line ( Ckt. I ) – Completed and Test charged successfully on 31.08.2007.
  - ii) LILO – II of Chandil – Hatia – Patraru line alongwith associated 220 kV bays at Ranchi ( Assets associated with Ranchi 400/220 kV Substation ) - Completed and Test charged successfully in August' 2007.
  - iii) Bus Reactor 80 MVAR alongwith associated bay at Ranchi S/s ( Assets associated with Ranchi 400/220 kV Substation ) - Completed and Test charged successfully in August' 2007.

*The above assets are declared under commercial operation by POWERGRID with effect from 01.09.2007.*

- b) POWERGRID vide their letter (dated 06.11.2007) informed that the following assets of POWERGRID have been commissioned :
  - i) 400 kV D/C Biharsharif – Balia line ( Ckt. II ) – Completed and Test charged successfully on 30.10.2007.
  - ii) 315 MVA ICT – I at Patna Substation – Completed and Test charged successfully on 14.10.2007.

*The above assets are declared under commercial operation by POWERGRID with effect from 01.11.2007.*

- c) POWERGRID vide their letter (dated 11.12.2007) informed that the following assets of POWERGRID have been commissioned :
- i) 2 Nos. 220 kV bay at Patna – Completed and commissioned successfully on 29.11.2007.
  - ii) 315 MVA, 400 / 220 kV ICT – I at Ranchi Substation - Completed and commissioned successfully on 29.11.2007.

*The above assets are declared under commercial operation by POWERGRID with effect from 01.12.2007.*

Members may please may like to discuss and opine.

- d) POWERGRID vide their letter dated 02.01.2008 informed that 315 MVA, 440/220 kV ICT II and associated bays at Patna S/s have been completed and charged successfully on 06.12.2007.

The asset is declared under commercial operation by POWERGRID with effect from 01.01.2008.

Members may please note.

### **Deliberations in the Commercial Sub-Committee**

- *It is informed by Superintending Engineer (Comml), ERPC that as per the information received from Powergrid, the following transmission elements associated with the Kahalgaon Stage-II (Extension Phase I) have been completed and declared under commercial operation :*

Sl. No.	Name of the Element	Date of Commercial Operation	Remarks
1.	400 kV D/C Biharshariff-Balia line (Circuit I)	<b>01.09.2007</b>	Accepted in the meeting.
2.	Bus Reactor 80 MVAR along with associated bay at Ranchi S/s	<b>01.09.2007</b>	- do -
3.	400 kV D/C Biharshariff-Balia line (Circuit II)	<b>01.11.2007</b>	- do -
4.	315 MVA ICT I at Patna S/s	<b>01.11.2007</b>	- do -
5.	2 nos. 220 kV bay at Patna	<b>01.12.2007</b>	- do -
6.	315 MVA, 400/220 kV ICT I at Ranchi S/s	<b>01.12.2007</b>	- do -
7.	315 MVA, 440/220 kV ICT II and associated bays at Patna S/s	<b>01.01.2008</b>	- do -

- *The following bi-lateral elements between JSEB & Powergrid was also reported to be completed and under commercial operation :*

Sl. No.	Name of the Element	Date of Commercial Operation	Remarks
1.	LILO I of Chandil-Ranchi-Patratu line along with associated 220 kV bays at Ranchi	01.09.2007	Noted by the members.
2.	LILO I of 220 kV Patna-Chandil line at Ranchi S/s along with associated bays at Ranchi S/s	01.06.2007	Issue was cleared in the 5 <sup>th</sup> CCM held on 14.07.2007

*It was pointed out by Chief Engineer (Comml), WBSEDCL that a decision was taken in the 5<sup>th</sup> Commercial Sub-committee meeting held at Kiriburu on 14.07.2007 that a Format would be developed for submission of requisite information to the Commercial Sub-committee members before acceptance and declaration of commercial operation of transmission elements by Powergrid. It was clarified by ERPC that response was received only from one constituent and no response was received from other constituents. As a result, the format could not be finalized.*

*It was decided by the beneficiary constituents in the meeting that ERPC would develop and finalise the format and circulate among all constituents including Powergrid. Powergrid agreed to furnish the requisite information in the format finalized by ERPC.*

*Further, it was informed by Powergrid in the meeting that the under-mentioned transmission assets had been approved in the Standing Committee meeting held on 05.11.2007 :*

- i) *Farakka-Kahalgaon 400 kV D/C line with 500MW of Farakka III.*
- ii) *Establishment of 400/220 kV Substation at Bolangir by LILO of Meramundali-Jeypore 400 kV S/c line.*

*In addition, it has also been decided to discuss the commercial mechanism for Parulia-Jamshedpur-Baripada-Mendhasal 400 kV D/C line (under Eastern Region Strengthening System-I) in the next ERPC meeting.*

*Further, it has also been decided that Powergrid would provide space for construction of bays for termination of following transmission lines being planned by WBSETCL.*

- iii) *Space for 2 nos. of 220 kV line bays at Dalkhola S/s of Powergrid for termination of 220 kV D/C line from the proposed 220/132 kV Dalkhola S/s of WBSETCL.*
- iv) *Space for 2 nos. of 400 kV line bays at Subhasgram S/s of Powergrid for termination of 400 kV D/C line from the proposed 400 kV Jagatballavpur S/s of WBSETCL.*

*Members noted the decision of the Standing Committee as furnished by Powergrid.*

## **B) ISSUES RAISED BY ERLDC**

I. ERLDC vide its letter dated 07.01.08 intimated that the following tie line configurations got changed due to LILO/Changed connectivity:

- a) 400 kV Rourkela – Raipur D/C made LILO at Raigarh
- b) 220 kV Kalyaneswari – Maithon D/C Powergrid to 220 kV CTPS – Maithon D/C Powergrid lines.

The necessary change in metering arrangement and the commercial issues in this regard may be deliberated.

Members may please discuss.

### **Deliberations in the Commercial Sub-Committee**

- a) *The existing 400 kV Rourkela-Raipur D/C line has been made LILO at Raigarh S/s of WR. SEM has already been installed at Raigarh S/s. Regarding sharing of charges of inter-regional lines, constituents proposed that at present 400 kV Rourkela-Raigarh D/C line will be the inter-regional line of ER with WR in place of 400 kV Rourkela-Raipur D/C line. Therefore, sharing of the charges may be made upto Raigarh. In reply, Powergrid representative informed that they would discuss the issue with their counter part of WR and revert back.*
- b) *Previously 220 kV Kalyaneswari S/S of DVC was connected with the Maithon S/s of Powergrid via 220 kV Kalyaneswari-Maithon D/C line. DVC has proposed to disconnect this line. Instead they would connect 220 kV Chandrapura S/s of DVC with Maithon S/s of Powergrid by 220 kV Chandrapura-Maithon D/C line. 220 kV Mejia-Chandrapura D/C line will also be terminated at 220 kV Kalyaneswari S/s of DVC. The purpose behind this proposal is to evacuate the generation of Mejia TPS of DVC. For Chandrapura-Maithon D/C line, SEM to be installed at Chandrapura end of DVC. At present, the work is in progress.*

## **II. WORKSHOP ON BLACK START AND RESTORATION PROCEDURE FOR ER GRID**

ERLDC intimated that two workshops on above subject have been organized by them for GRIDCO & DVC on 25.08.07 and 05.10.07 respectively. It is also intimated that Rs. 40, 000/- has been reimbursed to each from ER reactive Pool Account for meeting the expenditure for the workshops as per decision of ERPC.

Members may please note.

### **Deliberations in the Commercial Sub-Committee**

*Members noted the above. It was informed by ERLDC that ERLDC is going to organize the 3<sup>rd</sup> Workshop of “Black Start Restoration Procedure for ER Grid” at WBSEDCL / WBSETCL, Vidyut Bhavan, Salt Lake, Kolkata on 08.02.2008. Besides the engineers from WBSEDCL/WBSETCL, engineers from NTPC Farakka, NHPC Rangit, Powergrid ER-II and ERPC are expected to participate.*

#### **C) ISSUES RAISED BY DVC**

##### **I. METERING PROBLEM IN 132 kV JAMTARA (JSEB) – MAITHON (DVC) LINE**

DVC has intimated that due to single phasing of 132 kV Bus PT at DVC Maithon Hydel Station, the meter reading has been registered only half of the actual energy flow in 132 kV Maithon – Jamtara tie-line during the period from 18:50 Hrs. of 03.07.07 to 10:52 Hrs. of 09.07.07. It was also intimated that other end SEM was non-functional & KWU Meter of JSEB was also out of order and sent for repair. To settle the matter, in absence of any meter reading, DVC has proposed to consider average readings of SEM for last three months in 132 kV Jamtara – Maithon line.

DVC may elaborate the issue and JSEB may opine.

### **Deliberations in the Commercial Sub-Committee**

*DVC has intimated that due to single phasing of 132 kV bus PT at DVC Maithon Hydel Station, the meter reading had been registered one half of the actual energy flow in 132 kV Maithon(DVC)-Jamtara(JSEB) tie line during the period mentioned above. In this connection it was also mentioned that, in 132 kV Jamtara-Maithon line, SEM is working at Maithon end only and SEM installed at Jamtara end is non-functioning. On many occasions, JSEB had been requested to made this SEM at Jamtara end functional. Further, the reading of Tri Vector Meter at Maithon end shall be of no use due to the single phasing of the 132 kV bus PT. Tri Vector Meter installed at Jamtara end was out of order during that period.*

*After deliberation in the meeting, it has been proposed to consider average reading of SEM for two weeks prior the week mentioned above, i.e. 03.07.2007 to 09.07.2007 and reading of two weeks after 09.07.2007.*

*The proposal has to be accepted by JSEB.*

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

**Deliberations in the Commercial Sub-Committee**

- A) Replacement of ABB made PLCC panels of 400 kV Farakka-Durgapur line 1 & 2 and 400 kV Farakka-Jeerat Line 1 & 2 (both NTPC and Powergrid ends) [Ref. Powergrid letter No. ER-II/KOL/ED(ER-II) dated 07.01.2008]**

*Powergrid representative informed that the existing PLCC panels protection coupler (ABB make – Model: (NSD-40 and NSD-60) used for 400 kV Farakka-Durgapur line 1 & 2, 400 kV Farakka-Jeerat line 1 & 2 at Durgapur, Jeerat and Farakka end are old, obsolete in design and their spares are not available. These are to be replaced with new ones (17 nos. protection coupler panel) otherwise it will affect the availability, reliability and security of the system. The tentative cost for these 17 numbers Panels at Durgapur, Jeerat and Farakka end will be Rs.34 lakhs. Powergrid desired constituents to agree to above proposal.*

*Members in the Commercial Sub-Committee meeting approved the proposal for replacement of ABB make Model : NSD-40 and NSD-60 at a cost of Rs.34 lakhs.*

- B) BSEB representative intimated that as 132 kV Purnea-Dalkhola S/C line has been made LILO at 132 kV Kishanganj S/s of BSEB. Therefore, SEM has to be installed at Kishanganj S/s.**

**EASTERN REGIONAL POWER COMMITTEE :: KOLKATA**

**LIST OF PARTICIPANTS IN THE 6TH COMMERCIAL SUB-COMMITTEE MEETING OF ERPC HELD ON 16.01.2008 AT ERPC, KOLKATA**

**ERPC**

1. SHRI R.K.GROVER, MEMBER SECRETARY  
-- IN CHAIR.
2. SHRI J.BANERJEE, S.E. (C)
3. SHRI S.N. KAYAL, S.E. (O)
4. SHRI B.SARKHEL, E.E.
5. SHRI A.ROY, EE
6. SHRI K.K. BHATTACHERJEE, EE
7. SHRI D.K. MITRA, EE
8. SHRI S.P. DATTA. DGM (NTPC)
9. SHRI S.M. JHA, AEE
10. SHRI P.N. SARKAR, AEE

**BSEB**

1. SHRI S.K. GHOSH, ESE / IS
2. SHRI S.K. SENGUPTA, EEE

**JSEB**

1. SHRI B.M. VERMA, CHAIRMAN
2. SHRI A.K. CHATTERJEE, CE
3. SHRI K.. THAKUR, CE (C&R)

**DVC**

1. SHRI T.K. PAL, C.E.
2. SHRI C.KARMAKAR, S.E.
3. SMT. APARNA HALDAR, SDE

**GRIDCO**

1. SHRI MOHAN KR. MISRA, SR. GM(PP)
2. SHRI N. KHAN, L.O.

**WBSEDCL**

1. SHRI M.K. RAY, DIRECTOR (COMML)
2. SHRI M. MAJUMDAR, CE
3. SHRI SHYAMAPROSAD DAS, DY. CE

**WBPDC**

1. SHRI AJOY KUMAR ROY, GM (OPN & COMM)
2. SHRI JAYANTA MODAK, MANAGER (E)

**NHPC**

1. SHRI D. CHAKRABORTY, CHIEF (FINANCE)
2. SHRI A.B. SAHA, CE
3. SHRI M.N. MISHRA, AM (FINANCE)
4. SHRI VIRENDRA KUMAR, AM (E)

**NTPC**

1. SHRI VIVAKE KUMAR, DGM (COMML)
2. SHRI K.K. SINHA, DGM (COMML)
3. SHRI P.K.GHOSHAL, SR.MGR. (COMML)

**POWERGRID**

1. SHRI S. PRASAD, AGM (COMML)
2. SHRI S.K.SINGH, CHIEF MANAGER (OS)

**ERLDC**

1. SHRI M.G. RAOOT, GM
2. SHRI P. MUKHOPADHYAY, DGM (COMML)
3. SHRI S.S. BARPANDA, CHIEF MANAGER
4. SHRI K.K. RAM, CHIEF MANAGER

