

# **EASTERN REGIONAL POWER COMMITTEE**

## **MINUTES OF THE 8<sup>TH</sup> MEETING OF EASTERN REGIONAL POWER COMMITTEE**

**Date: 21.11.2008 (Friday)**

**Venue : Hotel Royal Residency, Bodhgaya**

---

The list of participants is given at Annexure- A.

Shri C.J. Venugopal, CMD-OPTCL & GRIDCO, Chaired the meeting.

Shri R.K. Sharma, Member(Transmission)-BSEB welcomed the Committee Members and all other participants on behalf of Bihar State Electricity Board.

Shri Swapan Mukherjee, Chairman-BSEB welcomed the delegates to the 8<sup>th</sup> ERPC Meeting. He highlighted the adverse power supply position in the State of Bihar. Out of total central sector allocation of about 1100 MW, the daily availability was around 650 to 700 MW only, mainly due to coal shortage and reduced hydro availability. The demand in the State was growing but the availability was far behind the demand, resulting in power crisis in the State. He stressed the issue of proper allocation of central sector power and pointed out that 10% home State share should be uniformly maintained and 15% unallocated quota should be reallocated to the States within the region, first to the States having deficit. He also mentioned that number of transmission schemes was being planned in ER for evacuation of power from new power projects coming up in ER under central and private sector, primarily for the beneficiaries outside ER. Therefore, sharing of associated transmission charges should be borne by those beneficiaries on the basis of CERC regulations.

Shri R.K. Grover, Member Secretary-ERPC welcomed the members and participants. He briefly stated the issues referred to the Committee by the TCC in its meeting on the previous day.

Dr. H.B. Lal, Chairman-JSEB stated that as per the recent guideline dt.09.09.2008 issued by the Ministry of Power regarding allocation of central sector power, 10% of the power to be allocated to the Home State, 75% power to be allocated to the States of that region and balance 15% to be kept unallocated at the disposal of the Central Government for re-allocation to the States of that region. He mentioned that the guideline was not followed in case of central sector power stations located in Eastern Region. Power is allocated to the States outside Eastern Region notwithstanding the fact that the States like Bihar and Jharkhand are under severe power crises. He requested CEA to take a note of it and take

necessary action for uniform application of the GoI guidelines across all the regions. He also pointed out the low availability from the central sector stations, making difficult for the States to meet their increasing demand. As against allocation of about 480 MW, the central sector availability was as low as 200 MW, adversely effecting the power supply position in Jharkhand.

Shri Pema Wangchen, PCE-cum- Secretary, Energy & Power Department thanked BSEB on behalf of the Govt. of Sikkim for making excellent arrangement for the meeting. He mentioned that ERPC is a good platform for collective decision making. He stated that 28 number hydro electric projects totalling about 5500 MW have been taken up for construction in Sikkim, out of which capacity of about 4000 MW would come up within the year 2014-15. He reposed faith that CEA and POWERGRID would make proper planning for the transmission system for evacuation of the power.

Shri C. Rinzin, Managing Director, Druk Green Power Corporation, Bhutan thanked ERPC for inviting them to attend the ERPC meeting. He stated that the co-operation between the Royal Government of Bhutan and the Government of India started way back in 1961 with the signing of agreement for Jaldhaka Hydro Project in West Bengal. Presently, Bhutan is having about 1500 MW generating capacity and most of the power is exported to India, particularly to Eastern Region. About 40 to 50% of Bhutan's direct revenue comes from sale of power to India. He stated that unbundling of power sector in Bhutan took place in the year 2002 with the formation of Druk Green Power Corporation, in charge of generation and Bhutan Power Corporation, in charge of transmission and distribution. About 10000 MW capacity addition has been planned in Bhutan by the year 2020. He welcomed joint venture proposals from State and Central Sector Utilities of India for undertaking hydro projects in Bhutan. He mentioned that India is a very important country to Bhutan and looked forward to continued excellent relationship and co-operation with India.

Shri M. Majumder, Executive Director(Commercial),WBSEDCL stated that recently the World Bank had carried out case study on unbundling of power sector in West Bengal and appreciated the efforts and achievement. He mentioned that WBSEDCL had made commercial profit for the last three financial years. The transmission and distribution availability were of the order of 99% and 97% respectively. The ATC loss in distribution sector had come down to 23% in 2007 from 45% in the year 2001 and in the current year the estimated ATC loss was 21%. Regarding sale of surplus power by WBSEDCL, he stated that 90% of the benefit was passed on to consumers of the State. Referring to the issue of allocation of 30 MW power from Kurichhu HPS of Bhutan to Assam, as proposed in the recent meeting taken by Ministry of Power, he stated that WBSEDCL had no objection to the proposal provided Assam surrenders equivalent share from NTPC stations in ER.

Shri T.K. Pal, Chief Engineer (Commercial),DVC mentioned that DVC had planned to add 4200 MW during the 11<sup>th</sup> Plan and the PPAs had been

finalized with various States. With increasing demand in the region, he requested CEA to look into re-allocation of power to ER constituents.

Shri S.M. Dhiman, Member (GO & D),CEA pointed out the difficulties of the thermal power stations for the last 2-3 months due to coal shortage. He stated that the matter had been taken up at the highest level of Govt. of India and the coal supply position was expected to improve shortly. He mentioned that in September'08, the grid frequency of NEW grid went below 49 Hz on number of occasions and stressed on the need for maintaining grid discipline. He pointed out that while some of the ER States are in need of power, DVC has entered into PPAs with the States outside ER. He emphasized the need for long term planning by the States, at least for 10 years, to avoid this kind of situation.

Shri C.J. Venugopal, Chairperson-ERPC and CMD-OPTCL & GRIDCO in his address stated that the States of Eastern Region are mainly dependent on central sector power and that Eastern Region is surplus has become a myth. The acute coal shortage in many thermal power stations in the region is creating an impediment to maximise generation and making it difficult for the States to meet its increasing demand. The per capita consumption of ER States is low resulting in low overall demand, which gives a notion that the region is surplus. But this notion is not true. There is a need for co-ordinated effort of the States of ER to get adequate share of power for States to grow and meet its peak demand. He also stressed the need for higher allocation of power to home State. He pointed out that during last eight years there was no increase in tariff in Orissa and all the benefits of earning through UI and power trading were passed on to consumers. He stressed the importance of financial closure of the new power projects in the context of present global economic melt down. He complimented Govt. of West Bengal for their achievement in power sector reforms. As regard agenda for the ERPC meeting he looked forward to deliberations of the members with positive frame of mind and hoped the issues placed before the Committee would be amicably resolved.

#### **ITEM NO.5 CONFIRMATION OF THE MINUTES OF THE 7<sup>TH</sup> ERPC MEETING HELD ON 26.07.2008 AT RANCHI**

The minutes of the 7<sup>th</sup> ERPC meeting held on 26.07.2008 at Ranchi was issued vide letter no.ERPC/Committee/2008/2893-2941 dated 01.09.2008.

Chief Engineer (Transmission, O&M),BSEB vide letter no.Com/ Misc-1067/98(P)/2033 dated 07.10.2008 has communicated their disagreement with the minutes of the 7<sup>th</sup> ERPC meeting pertaining to the deemed generation of Rangit HEP of NHPC during the period of flood (agenda item no.6.4) and scheduling of Talcher Stage-II generation by SR by ERLDC via ER corridor and payment of transmission charges (agenda item no.6.5) on the ground that views of BSEB were not incorporated. BSEB requested for review of decision of ERPC on the above two issues.

The minutes of the agenda item no. 6.4 and 6.5 of 7<sup>th</sup> ERPC meeting are placed before the ERPC Members. The minutes reflect the consensus views

arrived at the meeting after detailed deliberations. No comments received from any other constituents on the Minutes of 7<sup>th</sup> ERPC meeting.

**BSEB may put forward their views and Members may please discuss before confirmation of the minutes.**

#### **DELIBERATION IN THE ERPC MEETING**

Member Secretary,ERPC informed that in the 8<sup>th</sup> TCC meeting held on 20.11.2008, BSEB had already agreed to abide by the decision of the 7<sup>th</sup> ERPC meeting held on 26.07.2008 at Ranchi regarding scheduling of Talcher Stage-II generation by ERLDC via ER corridor and payment of transmission charges therein. On the request of Member Secretary,ERPC BSEB agreed to withdraw the proposed amendment.

Regarding the amendment sought to the decision taken in the 7<sup>th</sup> ERPC meeting held on 26.07.2008 at Ranchi pertaining to deemed generation of Rangit HPS during the period of 11.07.2006 to 18.10.2006, it was informed by Member Secretary,ERPC that the issue has been kept as an agenda items in the ERPC for deliberations. Therefore, BSEB should not insist on amendment to the decision taken in the 7<sup>th</sup> ERPC meeting. This was accepted by BSEB.

**Members present in the meeting confirmed the minutes of the 7<sup>th</sup> ERPC meeting held on 26.07.2008 at Ranchi as circulated vide letter no. ERPC/Committee/2008/2893-2941 dated 01.09.2008.**

#### **ITEM NO. 6 ISSUES REFERRED TO ERPC BY TCC MEMBERS OF THE 8<sup>TH</sup> TCC MEETING HELD YESTERDAY**

##### **ITEM NO. 6.1 PATRATU-BODHGAYA 220 KV CKT-I, II & III BETWEEN BSEB & JSEB.**

#### **TCC AGENDA**

In the 7<sup>th</sup> TCC meeting held on 25.07.2008 POWERGRID agreed to submit the cost estimate of the work for restoration of the above lines after issuance of the minutes of the TCC meeting mentioning the cost sharing between BSEB and JSEB. It was also decided that the cost estimate would be submitted by POWERGRID within a week's time to JSEB/BSEB for further examinations of their respective highest authorities.

JSEB and POWERGRID may please appraise the latest status.

#### **DELIBERATION IN THE TCC MEETING**

POWERGRID representative cited non-receipt of confirmation from JSEB & BSEB regarding cost sharing (the cost of construction of the line to be shared between JSEB & BSEB in proportion to the length of the line falling in their jurisdiction) as the reason for non-submission of cost estimate.

JSEB representative intimated that they have already conveyed their confirmation in this regard.

BSEB representative informed that they can confirm only after receipt of cost estimate from POWERGRID.

Member Secretary stated that the issue has been discussed in several meetings of ERPC over the last two years but could not be settled so far. He did not agree with the justifications given by JSEB, BSEB & POWERGRID for delay in settlement of the issue for such a long period.

**After detailed discussion TCC members concluded that the issue may be referred to ERPC for a decision.**

#### **DELIBERATION IN THE ERPC MEETING**

Members advised JSEB, BSEB & POWERGRID to settle the issue among themselves. JSEB and BSEB agreed to discuss the issue with POWERGRID for deciding further course of action.

#### **ITEM NO. 6.2 DEEMED GENERATION OF RANGIT HPS DURING THE PERIOD OF FLOOD AND RESTORATION THEREOF**

##### **TCC AGENDA**

The issue of deemed generation of Rangit HPS during flooding from 11.07.2006 to 18.10.2006 was deliberated in details in the 7<sup>th</sup> meeting of TCC and 7<sup>th</sup> 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 <sup>th</sup> meeting held on 26.07.2008	
	Previously Considered	Actual	Previously calculated figure (Rs.)	Revised figure (Rs.)
<b>BSEB</b>	<b>35.000000</b>	<b>30.507392</b>	<b>8674432</b>	<b>7560980</b>
<b>JSEB</b>	<b>13.330000</b>	<b>13.330000</b>	<b>3303719</b>	<b>3303719</b>
<b>DVC</b>	<b>10.000000</b>	<b>10.000000</b>	<b>2478409</b>	<b>2478409</b>
<b>GRIDCO</b>	<b>0.000000</b>	<b>0.000000</b>	<b>0</b>	<b>0</b>
<b>WBSEB</b>	<b>28.340000</b>	<b>32.832608</b>	<b>7023811</b>	<b>8137263</b>
<b>SIKKIM</b>	<b>1.330000</b>	<b>1.330000</b>	<b>329629</b>	<b>329629</b>
<b>TOTAL</b>			<b>21810000</b>	<b>21810000</b>

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

**Deliberations in the Commercial Sub-Committee Meeting held on 11.11.08**

*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.*

*TCC members may please note.*

**DELIBERATION IN THE TCC MEETING**

Member Secretary, ERPC informed that in line with the decisions taken in the 7<sup>th</sup> ERPC meeting held on 26.07.08, ERPC Secretariat issued a statement indicating the payment liabilities of the beneficiary constituents of Rangit HPS on account of admission of Rs.2.181 crore of NHPC towards deemed generation of Rangit HPS. The statement had to be subsequently revised to take care of the period of regulation imposed on BSEB. Afterwards, ERPC Secretariat had received a communication from BSEB indicating their disagreement with the decision taken in the ERPC meeting.

In this meeting BSEB representative again emphasised that as per the existing regulation of CERC, deemed generation is not admissible to NHPC during the period of flooding from 11.07.06 to 18.10.06. BSEB cited CERC ruling in case of NJPC.

It was clarified by Member Secretary, ERPC in the meeting that the above cited order of CERC related to revision of capacity index, not of deemed generation. Further, he pointed out that as per existing CERC regulation also, deemed generation is admissible to NHPC on account of flooding which was beyond the control of NHPC. He also informed that the other beneficiaries of Rangit HPS had already made the payment in accordance with the decision of the last ERPC meeting.

**As per the proposal of Member(Transmission),BSEB it was decided to refer the issue to the 8<sup>th</sup> ERPC meeting.**

## **DELIBERATION IN THE ERPC MEETING**

Member Secretary,ERPC clarified that in a similar case Satluj Jal Vidyut Nigam Ltd vide Petition No.66/2007 had approached CERC for upward revision of Capacity Index for Naptha Jhakri HPS, which was rejected by CERC. However, deemed generation claim had already been admitted earlier in this case. Member Secretary,ERPC further submitted that the computation made by ERPC for Rangit HPS is in line with the CERC Regulations.

Chairman,BSEB was satisfied with the explanation given by Member Secretary, ERPC and agreed to admit the deemed generation of Rangit HPS for the period from 11.07.2006 to 18.10.2006. Other beneficiary members present in the meeting thanked Chairman,BSEB for resolving the long pending issue.

## **ITEM NO.6.3 DISBURSEMENT OF PAYMENT TOWARDS UI INTEREST**

### **TCC AGENDA**

As per the decisions taken during the 7<sup>th</sup> 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)*

### **Deliberations in the Commercial Sub-Committee Meeting held on 11.11.2008**

*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.*

*TCC members may please note and discuss.*

## **DELIBERATION IN THE TCC MEETING**

The members present in the meeting noted the disbursement of interest accrued in the ER UI pool bank account for 2005-06 and 2006-07 among

the beneficiaries in proportion of the UI receivables. Members also noted the current amount available against the same head for 2007-08.

On the issue of disbursement of the interest accrued in bank for ER UI pool account for 2007-08, there were divergent opinions on the proposal of Member Secretary, ERPC regarding utilisation of this amount for imparting training to the constituents members of the Eastern Region. WBSEDCL did not agree to the proposal of Member Secretary, ERPC and agreed to make separate contribution to a fund, if created for training purpose.

**Since no consensus could be reached, it was decided to refer the issue to the 8<sup>th</sup> ERPC meeting for final decision.**

#### **DELIBERATION IN THE ERPC MEETING**

After brief deliberations, it was decided that the interest accrued in the bank under ER UI Pool Account for 2007-08 would be disbursed among the beneficiaries in proportion to UI receivable.

#### **ITEM NO.6.3 REACTIVE ENERGY CHARGES -- PRESENT STATUS**

##### **TCC AGENDA**

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 year wise balance amount (if any) accumulated in the ER Reactive Pool Account upto 2007-08.

TCC members may please note.

#### **DELIBERATION IN THE TCC MEETING**

It was informed by ERPC Secretariat as on 17.11.08, total amount received in the ER Reactive Pool is Rs.99.13 lakh as furnished by ERLDC. Of the total amount received, Rs.1.6 lakh has been spent for organising Workshop on Black Start Procedure by ERLDC and Rs.2.90 lakh for organising a Seminar on Power Exchange by ERPC & ERLDC. The balance amount remaining in the Reactive Account as on 17.11.08 is Rs.94.63 lakh.

ERPC Secretariat drew the attention of the members to the provisions of IEGC regarding utilisation of available fund in the Reactive Pool Account for imparting training to the SLDC personnel and for similar purposes.

Member Secretary, ERPC stressed that the fund available in the Reactive Pool Account may not be adequate for training the constituent members abroad. He submitted that his proposal of utilisation of the accrued bank interest in UI Pool bank account was to bridge the deficit.

**After deliberation it was decided to place the issue of utilisation of fund available under Reactive Pool Account in the 8<sup>th</sup> ERPC meeting.**

## **DELIBERATION IN THE ERPC MEETING**

It was decided that funds available in the ER Reactive Pool Account would be utilized as per the provision of IEGC by imparting training to SLDC personnel and for similar purposes. Further, ERPC authorized Member Secretary, ERPC to hold seminars/work-shops on emerging issues for the benefit of the constituent members by utilizing the fund available in the ER Reactive Pool Account.

It was also decided that ERPC would formulate a comprehensive proposal for foreign training for the constituent members to have exposure on the emerging issues. Each constituent would bear the cost of the training programme for its nominated member. The cost of training for Chairperson-ERPC, Member Secretary, ERPC and Head of ERLDC would be made from the fund available in the ER Reactive Pool Account.

## **ITEM NO.6.4 REPLACEMENT OF VARIOUS OLD SWITCHGEARS AND PROTECTION RELAYS IN THE STATIONS OF POWERGRID ER-I (Agenda submitted by POWERGRID)**

### **TCC AGENDA**

#### **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.*

*TCC members may please approve.*

#### **DELIBERATION IN THE TCC MEETING**

TCC members noted the consent of OCC and Commercial Sub-Committee members regarding replacement of the above items at a total cost of Rs.2.10 Crore.

TCC also recommended the replacement of the above with the condition that the book value of the existing items should be deducted from the total cost of the newly procured items.

**Put up to ERPC for approval.**

#### **DELIBERATION IN THE ERPC MEETING**

ERPC approved the replacement of various old switchgears and protection relays in the sub-stations of Powergrid at an estimated cost of Rs.2.10 crore. Powergrid should ensure that the book values of the old equipment are deducted from the cost of the newly procured items for capitalisation of assets.

#### **ITEM NO. 7 ISSUES REFERRED BY THE STANDING COMMITTEE ON POWER SYSTEM PLANNING OF ER**

The Standing Committee meeting on Power System Planning of Eastern Region was held on 8<sup>th</sup> November,2008 at Bhubaneswar. The issues referred by the Committee for information and approval of ERPC have been received from CEA and are as under.

**Members may please discuss for approval.**

#### **AGENDA 7.1 :**

- 1.0 The beneficiaries of Tilaiya UMPP (4000 MW), Barh-II (1320 MW) & Nabinagar (1000MW) (JV of Railways and NTPC) projects coming-up during 2012-14, are ER,WR and NR. As per the allocations finalized for Tilaiya UMPP, ER would get 1500 MW, NR 1700 MW, and WR 800 MW. The ER beneficiaries for Tilaiya are Bihar and Jharkhand only having share of 500MW and 1000MW respectively. In respect of Nabinagar TPS, which is JV of Railways and NTPC (1000MW), share of Railways is 900 MW, and tentative share for Bihar 58 MW and Jharkhand 42 MW. While allocations of Barh-II are yet to be finalized, beneficiaries of Barh-II are likely to be ER NR and WR. In addition, a number of other projects are also coming in Eastern Region by 2014-15. These projects are being developed by NTPC, NHPC, DVC, State Utilities, and IPPs in Jharkhand and Orissa, many of whom have also applied for Long Term Open Access to the CTU seeking export of their power from ER to NR/WR. The major IPPs are in southern part of Eastern Region, i.e. around and below Ranchi in Jharkhand and in Orissa. It is assessed that with expected installed capacity of about 60000 MW in ER, the region would have exportable power of the order of 23500-26500 MW by 2014-15 for export to the beneficiaries in WR and NR.

- 1.1 The generation specific transmission system for Tilaiya , Barh\_II and Nabinagar projects and system strengthening works in ER were finalized and agreed in the standing committee:

### **A. Generation Specific Transmission System**

#### Tilaiya UMPP (4000MW)

1. Tilaiya UMPP – Sasaram, 765kV S/C lines
2. Tilaiya UMPP – Gaya, 765kV S/C line
3. Tilaiya UMPP – Balia 765kV S/C line

Barh-II (1320MW): Barh – Gorakhpur 400kV quad D/C line

Nabinagar(1000MW): Nabinagar – Sasaram 400kV D/C line

Transmission charges for the above generation specific inter-connecting lines is proposed to be shared by the beneficiaries of the specific generation projects in ratio of their allocation of power from the project. The same was agreed in the standing committee.

### **B. System Strengthening works in ER**

1. Sasaram – Daltonganj 400kV D/C line
2. Daltonganj 400kV S/S 2x315 MVA
3. 400/132kV 2x200MVA S/S near Lakhisarai/Jamalpur) with LILO of both circuits of one of the Kahalgaon-Biharsharif 400kV D/C line and space provision for 3<sup>rd</sup> transformer and
4. An additional 400/132kV 2x200MVA S/S at suitable location in Bihar and its connectivity with 400kV grid (exact location of the 400/132kV S/S will be intimated by BSEB).
5. Establishment of 400/220 kV sub-station at Bolangir by LILO of both Meramundali- Jeypore 400 kV S/C and Indravati-Rengali 400 kV S/C lines.
6. Establishment of 400/220 kV sub-station at Keonjhar by LILO of Rengali – Baripada 400 kV S/C line.
7. Establishment of 400/220 kV s/s at Sundargarh by LILO of both circuits of the existing Talcher –Rourkela 400 kV D/C line.

In the Standing committee, it was also agreed that all the above regional system strengthening work in ER should be pooled with the regional system of ER for the purpose of sharing of transmission charges with corresponding share of generation of ER included in the total ISGS capacity for sharing of transmission charges.

C. In addition to above, the following transmission system for creation of pooling stations in Orissa was also agreed for which CEA had suggested that sharing of transmission charges should also be on pooled basis as a part of ER regional transmission system with corresponding generation included in total ISGS capacity for sharing of transmission charges and sharing the ER pooled transmission charges in proportion to their share in power.

- Establishment of 765/400kV Pooling Station at Jharsuguda
- Establishment of 765/400kV Pooling Station at Dhenkanal
- Establishment of 765/400kV Pooling Station at Angul
- Dhenkanal Pooling Station – Angul Pooling Station 765kV 2xS/c
- Angul Pooling Station – Jharsuguda Pooling Station 765kV 2xS/c
- Jharsuguda Pooling Station – Dhenkanal Pooling Station 765kV 2xS/c

- LILO of Rourkela – Raigarh 400kV 2xD/c at Jharsuguda Pooling station
- \* LILO of Meramundali – Jeypore 400kV S/c line at Angul pooling station
- \* LILO of one ckt of Talcher - Meramundali 400kV D/c line at Angul pooling station
- \* LILO of Meramundali-Chandaka 400kV D/c line at Dhenkanal Pooling station

[ \* These LILO would be later disconnected when Angul and Dhenkanal pooling stations are developed as 765kV as otherwise it would cause increased short circuit levels in the grid.]

ERPC may endorse the proposal as agreed in Standing committee referred A and B above. Regarding C, the ERPC may discuss and agree to the transmission charge sharing as proposed by CEA.

### **DELIBERATION IN THE ERPC MEETING**

Members briefly deliberated on the proposals and the associated issues. Jharkhand and Bihar wanted some more clarifications. But in absence of detailed minutes of the meeting and representative from SP & PA Division of CEA, the issues could not be discussed conclusively. It was decided that after the minutes of the Standing Committee meeting is issued, a separate meeting would be held at ERPC, Kolkata inviting CEA and POWERGRID for fruitful deliberation and final decision.

### **AGENDA 7.2 :**

In view of constraints to evacuate power from existing Tenughat TPS, JSEB has conveyed that TVNL wishes to construct 400kV D/C transmission line from Tenughat to Ranchi (Namkum) at their own cost, to connect with one bay of PGCIL's grid substation. It is agreed and TVNL has agreed to share the ER pooled transmission charges in proportion to their generation capacity.

### **DELIBERATION IN THE ERPC MEETING**

TVNL submitted that their Board has accorded approved for feasibility survey and preparation of DPR for the proposed 400 KV Tenughat-Ranchi D/C line. Members also advised TVNL to take appropriate action for charging of the existing 220 KV lines to 400 KV to overcome existing evacuation problem of Tenughat TPS.

### **AGENDA 7.3 :**

In respect of the proposal for transforming 400kV Berhampur switching station (part of the 400kV Talcher - Gazuwaka via Berhampur (Narendrapur) switching station to be developed by Independent Transmission Provider as a back-up arrangement for power supply to SR from Talcher-II under the scheme “ Augmentation of Talcher-II transmission system”) into full-fledged 400/220kV, 2x315MVA S/S under state sector, Orissa is agreeable to share the transmission charges for the Talcher-Gazuwaka 400kV D/C line in proportion to the allocation from Talcher. The issue would be taken up and decided in the Standing committee of Southern Region/SRPC.

### **DELIBERATION IN THE ERPC MEETING**

Members noted and advised OPTCL & GRIDCO to take up the matter with CEA/SRPC.

#### **AGENDA 7.4 :**

For providing reliable supply to 400kV Duburi sub-station, OPTCL has proposed, in addition to a 400kV D/C line from Meramundali, LILOing of one circuit of the 400kV Baripada-Mendhasal D/C line under state sector. ERPC may approve the above proposal of OPTCL.

#### **DELIBERATION IN THE ERPC MEETING**

It was decided that since the cost of 400 kV Durgapur-Jamshedpur-Baripada-Mendhasal D/C line would be borne by WBSETCL and DVC, OPTCL/GRIDCO may discuss with WBSETCL & DVC for LILO of the line at Duburi and related issues.

#### **ITEM NO.8 CONSTITUTION OF ERPC**

In pursuance of letter dated 02.05.2008 from Govt. of Jharkhand, Jamshedpur Utilities and Services Company Ltd. (JUSCO) is the new Member of ERPC for the year 2008-09 in the category of Distribution Company in the State of Jharkhand in place of SAIL- Bokaro Steel Plant.

ERPC Secretariat vide letter no.ERPC/TCC&COMMITTEE/2008/ 806-07 dated 13.05.2008 followed by letters dated 11.07.2008 and 06.11.2008 has requested the Managing Director, JUSCO to forward their nominations in ERPC and other Sub-Committees of ERPC. But no communication has been received so far from JUSCO authority.

In the 7<sup>th</sup> ERPC meeting held on 26.07.2008 at Ranchi, GRIDCO and PTC were inducted as Associate Member of ERPC. Accordingly GRIDCO and PTC were requested to send their nomination in the ERPC and other sub-committees. Nominations from GRIDCO have been received. CMD, GRIDCO has been nominated in the ERPC. Nominations from PTC are still awaited.

As per the resolution of MoP, Govt. of India, one representative from National Load Dispatch Center (NLDC) shall be a member of ERPC. Number of communications has been issued to the Executive Director (NLDC) requesting for nominations in ERPC and other sub-committees. Nominations from NLDC are still awaited.

**This is for the information of the Members.**

#### **DELIBERATIONS IN THE ERPC MEETING**

Member noted.

#### **ITEM NO.9 FUNDING OF ERPC SECRETARIAT :: ERPC ESTABLISHMENT FUND**

##### **A) FOR THE YEAR 2007-08**

Contribution of Rs.10 lakh each from BSHPC and NESCO has not been received. Number of letters has been issued to BSHPC and NESCO but no payment has been received. It is requested that the matter may please be

taken up by the Chairman, BSEB with BSHPC and CMD, OPTCL with NESCO respectively.

#### **DELIBERATION IN THE ERPC MEETING**

Member Secretary, ERPC was advised to issue reminders to BSHPC and NESCO with copy to CMD, BSEB and CMD, OPTCL respectively.

#### **B) FOR THE YEAR 2008-09**

Contribution approved for the year : Rs.14 lakh per member of ERPC.

Contributions @ Rs.14 lakh have been received from the following organizations : OHPC, WBPDC, BSEB, NTPC, OPGC, WBSETCL, NHPC, DVC, TVNL and PTC.

Contributions @ Rs.11 lakh have been received from the following organizations : CESC, POWERGRID, JSEB, Govt. of Sikkim.

Contribution of Rs.5.5 lakh has been received from WBSEDCL.

**The following organisations are requested to send their contribution for the year 2008-09 to the ERPC Secretariat :**

Rs. 14 lakh each by OPTCL, GRIDCO, BSHPC, JUSCO and SOUTHCO.

Rs. 3 lakh each by CESC, POWERGRID, JSEB, Govt. of Sikkim.

Rs. 8.5 lakh by WBSEDCL.

#### **DELIBERATION IN THE ERPC MEETING**

GRIDCO & OPTCL confirmed payment of Rs.14 lakh each and POWERGRID confirmed payment of Rs.3 lakh. Other Members agreed to send their balance contributions expeditiously.

#### **C) INTERIOR RENOVATION OF ERPC BUILDING**

In the 7<sup>th</sup> ERPC meeting held on 26<sup>th</sup> July, 2008 the Committee approved one time contribution of Rs. 5 lakh per member for internal renovation of ERPC building and augmentation of rooms and renovation of the guest house accommodation at ERPC, Kolkata. Necessary budget estimate has been sent to CEA for this purpose. ERPC Secretariat will issue the letter shortly to the members requesting for their contribution.

**Put up for information of members.**

#### **DELIBERATIONS IN THE ERPC MEETING**

Member noted.

## ITEM NO.10 CONTRIBUTION TO ERPC FUND

### Status of Contribution to ERPC FUND

In the 6<sup>th</sup> ERPC meeting dated 19.02.2008 the Committee approved the annual contribution of Rs.50,000 per member to the **ERPC FUND**. The contributions for the year 2008-09 to **ERPC FUND** has been received from WBPDC, WBSEDCL, BSEB, NHPC, NTPC, POWERGRID, OPGC, CESC, Govt. of Sikkim, JSEB, TVNL and PTC.

**Contributions from the following organisations have not been received viz. OPTCL, GRIDCO, DVC, WBSETCL, OHPC, BSHPC, JUSCO and SOUTHCO. The concerned members are requested to expedite their contribution to the ERPC FUND.**

Further, contributions @ Rs.38000 per year have not been received from BSHPC and NESCO for the year 2007 and BSHPC, Tata Steel Ltd. for the year 2006. The payments are long overdue and number of letters has been issued to the concerned organisations. While ERPC Secretariat is following up with the respective organisations for their contribution, CMD-OPTCL, Chairman-BSEB and Chairman-JSEB are requested to use their good offices to persuade NESCO, BSHPC and Tata Steel Ltd respectively for their contribution to the ERPC Fund.

### **DELIBERATION IN THE ERPC MEETING**

GRIDCO, OPTCL and DVC confirmed payment of Rs.50,000/- each to ERPC Fund for the year 2008-09. Other Members agreed to send their balance contributions for the year 2008-09 expeditiously. Regarding old outstanding of NESCO, BSHPC & Tata Steel Ltd., Member Secretary, ERPC was advised to issue reminders.

## ITEM NO.11 FINALISATION OF VENUE AND TENTATIVE DATE OF THE NEXT COMMITTEE MEETING

As per the roster finalised in the first ERPC meeting held in Kolkata on 25.05.2006, next ERPC meeting is to be hosted by NTPC.

The roster approved in the first ERPC meeting is given below :

Sl. No.	Host Organisation
1.	WEST BENGAL
2.	DVC
3.	NHPC
4.	PGCIL
5.	SIKKIM
6.	MEMBER, IPP
7.	MEMBER, TRADER
8.	ORISSA
9.	JHARKHAND

<b>Sl. No.</b>	<b>Host Organisation</b>
10.	BIHAR
11.	NTPC

**NTPC may please agree to host the next ERPC meeting and members may please decide a tentative date and venue for the next meeting.**

**DELIBERATION IN THE ERPC MEETING**

It was decided that the next meeting would be held in February/March'09. NTPC agreed to host the next meeting. The date and venue would be decided in due course of time.

**Thereafter, the meeting ended with vote of thanks by BSEB.**

\*\*\*\*\*