

EASTERN REGIONAL POWER COMMITTEE

AGENDA FOR THE 5TH TCC MEETING OF ERPC

Time & Date: 11:00hrs. on 18.02.2008 (Monday)

Venue : Hotel Swosti Plaza, Bhubaneswar

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ITEM NO.1 CONFIRMATION OF THE MINUTES OF 4th TCC MEETING OF ERPC HELD ON 22.09.07 AT KOLKATA.

The minutes of 4th TCC meeting of ERPC were circulated vide this office letter no. ERPC/Committee/2007/4469-4516 dated 29.10.2007.

No comments on the above minutes have been received from any of the constituents.

TCC may please confirm the minutes.

ITEM NO.2 HIGHLIGHTS OF GRID PERFORMANCE FOR THE PERIOD AUGUST'07 TO DECEMBER'07

(A) FREQUENCY :

Frequency profile for the period August'07 to December'07 and the corresponding period of the previous year (i.e. August'06 to December'06) are shown below:

<u>Month</u>	% of time of the month frequency remained							
	< 49.0 Hz		49.0--50.5 Hz		50.5—51.0 Hz		>51.0 Hz	
	2006	2007	2006	2007	2006	2007	2006	2007
August	0.76	3.25	97.91	96.70	1.33	0.05	0.00	0.00
September	2.28	1.50	97.71	98.45	0.01	0.05	0.00	0.00
October	11.22	8.41	88.68	91.58	0.09	0.01	0.01	0.00
November	13.93	10.93	86.07	89.07	0.00	0.00	0.00	0.00
December	16.15	12.17	83.85	87.83	0.00	0.00	0.00	0.00

From the above table, it may be observed that :

- Frequency profile in the IEGC band, i.e. 49.0 to 50.5 Hz has shown a sign of decline from the month of October,2007 as it has slide down from 98.45 Hz to 87.83 Hz in the month of December,

2007. This was mainly because of low availability of hydel power particularly from Chukha, Tala HEP and Gridco system and occasional forced/planned outages of major thermal units.

However, the trend of frequency profile has shown improvement in comparison with the same period last year.

- The percentage of time frequency remaining below 49.0 Hz. has shown deterioration from the month of October'07 onwards. However, the same for the corresponding months in the last year is found to be marginally higher.
- The frequency profile above 50.5 Hz during the above months was found to be insignificant.

(B) PERFORMANCE REVIEW

Description	Average (MU)/Month			Dec'06	Dec'07	% Increase
	Aug'06 to Dec'06	Aug'07 to Dec'07	% Increase			
Net Generation (MU)/Month	6802	7185	5.63	6958	6896	(-)0.89
Net Central Sector Thermal Generation (MU)/Month	1853	1882	1.56	2319	2166	(-)6.61
Import from CPPs in (MU)/Month	150	106	(-)28.93	166	91	(-)45.14
ER Consumption (MU)/Month	5502	5982	8.73	5335	5748	7.75
Net Export to Outside Region (MU)/Month including transmission loss	1397	1246	(-)10.81	1726	1189	(-)31.11

Description	Aug'06 to Dec'06	Aug'07 to Dec'07	% Increase	Dec'06	Dec'07	% Increase
Regional Peak Demand (MW) Met	10227	10699	4.62	9913	10391	4.82
Peak Export (MW)	3575	4307	20.48	3575	2658	(-)25.65

(C) EXPORT

MONTHLY AND CUMULATIVE EXPORT OF POWER FROM ER DURING DECEMBER, 2007 (BASED ON SEM FIGURES)

Region	Export in MU (during 2007-08)		Export in MU (during 2006-07)		% Growth *	
	During Dec'07	Cumulative 2007-2008 (Apr'07 to Dec'07)	During Dec'06	Cumulative 2006-2007 (Apr'06 to Dec'06)	During Dec'07	Cumulative 2007-2008 (Apr'07 to Dec'07)
To						
NR	928	9319	933	5048	-0.6	84.6
WR	295	3335	520	5346	-43.3	-37.6
SR	-	365	163	712	-	-48.7
NER	-	0	110	223	-	-
TOTAL	1223	13020	1726	11329	-29.1	14.9

* As compared to similar period during 2006-07.

MONTHLY AND CUMULATIVE IMPORT OF POWER BY ER DURING DEC'2007 (BASED ON SEM FIGURES)

Region	Import in MU (during 2007-08)		Import in MU (during 2006-07)		% Growth *	
	During Dec'07	Cumulative 2007-2008 (Apr'07 to Dec'07)	During Dec'06	Cumulative 2006-2007 (Apr'06 to Dec'06)	During Dec'07	Cumulative 2007-2008 (Apr'07 to Dec'07)
From						
NR	-	-	-	-	-	-
WR	-	-	-	-	-	-
SR	22	1495	-	0	-	-
NER	12	1240	0.0	381	0.0	225.7
TOTAL	34	2734	0.0	381	0.0	618.3
Net Export from ER	1189	10285	1726	10949	-31.1	-6.1

* As compared to similar period during 2006-07.

- In the month of December,2007 the export of energy to NR has almost remained same as compared to December,2006 However, the same to WR has reduced by 43.3%.

- The net energy export from ER to other regions during December, 2007 has decreased by 31.1% as compared to the same period last year.
- The net energy export (Cumulative) during the period April'07 to December'07 has also decreased by 6.1% as compared to the same period of 2006-07.

(D) IMPORTANT EVENTS

- 1 x 80 MVAR 400 kV bus reactor at Ranchi S/S of Powergrid was charged for the first time at 18.02 hrs of 10.08.07.
- 400 kV Biharshariff-Balia Line I & II inter-regional link was synchronised on 31.08.07 & 30.10.07 respectively. This has become one more inter-regional AC link between ER and NR.
- 2 x 150 MVA 220/132 kV Hatia-II S/S commissioned on 27.08.07 with D/C 220 kV Patratu-Hatia-II line and LILO of Hatia-II-Chandil 220 kV line at 400/220 kV Ranchi S/s of Powergrid.
- 220 kV Indravati-Theruvalli line-III was taken into service on 05.09.07 by OPTCL.
- 1 x 160 MVA, 220/132 kV ICT commissioned and loaded on 12.09.07 in place of existing 100 MVA ICT at Budhipadar 220 kV S/S of OPTCL.
- 220/132 kV, 1x160 MVA ICT at Baripada S/S of Powergrid put into service after repair and 100 MVA ICT of OPTCL was replaced.
- 220 kV Baripada-Balasore Line-I was charged and loaded radially on 03.10.07 and thereafter synchronised with 220 kV Duburi line of OPTCL.
- 315 MVA, 400/220 kV ICT-I & ICT-II at Patna S/s of Powergrid was charged on 14.10.07 & 05.12.07 respectively on no load.
- MoP's order regarding allocation of power from all the six units of Tala HEP (170 MW each) was implemented in totality with effect from 00.00 hrs of 23.10.07.
- Santaldih TPS Unit # 5 (300 MW) of WBPDCCL – Oil synchronised on 15.10.07.
- Purulia PSP U # 4, U # 3, U # 2 and U # 1 were synchronised on 13.07.07, 15.08.07, 09.11.07 and 07.12.07 respectively.
- DPL Unit # 7 (300 MW) was test synchronised on 24.11.07.
- Mejia TPS Unit # 6 (250 MW) of DVC – Coal synchronised on 25.11.07.
- Mejia Unit # 5 (250 MW) of DVC synchronised on 14.12.07 at 11.30 hrs and 220 kV Mejia TPS-Muchipara line was commissioned on 19.11.07.
- 80 MVAR line reactor of 400 kV Ranchi-Sipat Line-II was charged as bus reactor at Ranchi 400 kV S/s on 19.12.07.
- Test synchronisation on oil of Sagardighi TPS Unit # 1 (300 MW) was carried out on 21.12.07.

- 400 kV Rourkela-Raipur D/C was made LILO at Raigarh 400 kV S/S on 31.12.07.
- Kahalgaon STPS Unit # 5 (500 MW) of NTPC test synchronised on 02.02.2008.
- 1st unit (170 MW) of Teesta Stage-V HEP was synchronised on 06.02.2008.

TCC may please note

ITEM NO. 3 PATRATU-BODHGAYA 220 KV CKT-I, II & III BETWEEN BSEB & JSEB.

In the previous (4th) TCC meeting Powergrid informed that the cost estimate for restoration of the above line would be submitted to JSEB by 15.10.07 with a copy to ERPC.

However, Powergrid in the 22nd meeting of OCC held in the month of December, 2007 informed that the cost estimation was under process by the Corporate Engineering, Powergrid, New Delhi and was expected by January, 2008.

The representative from Powergrid may please intimate the latest position.

ITEM NO.4 REVISION OF UFR STAGE-I SETTINGS AND INTRODUCTION OF Df/Dt RELAY IN ER AND ITS RECOMMENDE SETTINGS

A meeting was held among the representatives of NRPC, NRLDC, WRPC, ERLDC and ERPC on 27.11.07 at ERPC, Kolkata regarding the issues concerning finalisation of Df /Dt relay settings for the combined NEW grid (NER-NR-ER-WR). The gist of decision taken in the meeting was as follows :

a) **Revised UFR settings for ER**

Stage-I UFR settings in ER is to be raised from existing level 48.5 Hz, instantaneous to 48.6 Hz, instantaneous. [Stage-II and Stage-II relay settings will remain unaltered. Quantum of the load relief for all the stages will continue to be same i.e. 300 MW, 300 MW and 410 MW respectively].

b) **Df/Dt relay settings for ER**

Stage-I Df/Dt relay would be introduced in ER and is to be set at 0.125 Hz per second at 49.9 Hz – load relief of 800 MW. (600 MW for ER + 200 MW for SR).

c) **System Protection Scheme (SPS)**

Backing down of generation in ER to arrest sudden rise in frequency in ER in case of separation of WR or NR from NEW grid. The details decisions taken in the meeting are enclosed at **Annexure – I.**

In the 21st OCC meeting a detailed deliberations on the issue took place wherein ER constituents in general opined that a proposal of revision of UFR settings and installation of Df/Dt relays in ER should be put to TCC for approval before implementation.

TCC may please deliberate.

ITEM NO.5 PSS TUNING FOR GENERATING UNITS IN ER

The PSS (SIEMENS make) tuning exercise was successfully carried out by M/s. BHEL on U # 4 and 5 (500MW each) at Farakka STPS of NTPC on 29.01.08 and 30.01.08 in the presence of Dr. A.M.Kulkarni, Prof. IIT, Bombay and NTPC officers of KhSTPS, ER HQ., ERLDC and ERPC. This was the first attempt of tuning of 500MW thermal units in our country. The performance of PSS for U # 4&5 were found to be satisfactory.

In the first phase of PSS tuning for Kolaghat U #5&6 (210MW) of WBPDC, Upper Kolab HPS U # 1,2,3 & 4 (80MW each) of OHPC and FSTPS U # 4&5 (500MW each) of NTPC has been completed as was recommended by IIT, Bombay on the basis their analytical studies.

This is for kind information of the TCC.

ITEM NO.6 ISSUES DISCUSSED IN THE STANDING COMMITTEE MEETING ON POWER SYSTEM PLANNING IN EASTERN REGION HELD ON 05.11.2007 AT RANCHI

A meeting of the Standing Committee on Power System Planning was held on 05.11.2007 at Ranchi wherein a number of proposals for transmission projects in Sikkim to NR/WR, transmission system from new generation capacity planned by DVC, viz, Kodarma TPS (2 x 500 MW), Bokaro TPS Extension (1 x 500 MW), Mejia 'B' TPS (2 x 500 MW) and Maithon RB (1000 MW), associated transmission system for Navinagar TPP (4 x 250 MW), joint venture of NTPC & Railways, transmission system for Farakka III (500 MW) of NTPC and various transmission proposals of WBSETCL during 11th Plan period were discussed. The list of the proposed transmission system are indicated below for discussions / concurrence of members of TCC.

I. Transmission System for Export of Power from Different Generation Projects in Sikkim to NR/WR

It was learnt that about 21 nos. of hydro projects having total capacity of 4225 MW are proposed to be developed along the river Teesta. Out of 21 projects, 14 nos of project had already applied for Long Term Open Access (LTOA), the remaining projects are also expected to apply for the same shortly.

The status of the projects as informed by the different generation developers are given in **Annexure - IIA**

The transmission system for the various hydro projects in Sikkim as finalised after discussions in the above meeting is depicted in **Exhibit –I** and corresponding transmission systems are shown in **Annexure - IIB**.

Further the time schedule of implementation of various transmission systems of the comprehensive transmission scheme was also discussed and Powergrid would prepare a phased time schedule of the transmission system matching with the generation projects as proposed in Sikkim. The following were also agreed to :

- i) The dedicated transmission system, i.e. from the generation switchyard to the pooling point in Sikkim would be under the scope of respective generator developers / open access applicants and the same shall be built, owned and operated by them.
- ii) The common transmission system including development of Pooling Station in Sikkim and transmission corridor to Kishanganj Pooling Station in Northern part of West Bengal / Bihar is to be developed by Powergrid.
- iii) The transmission system for development of Pooling Stations at Kishanganj in Northern part of West Bengal / Bihar and transfer of power from Kishanganj to NR/WR would also be developed by Powergrid.
- iv) The transmission charges as mentioned in (ii) & (iii) above would be borne by either the beneficiaries or generation developers in Sikkim in proportion to their generation capacity. The generation developers / open access applicants would require to inform within one month about their agreement to bear the transmission charges and signing of BPTA as mentioned above.

This is for information of members.

II. Transmission System from New Generation Capacity Planned by DVC, viz, Kodarma TPS (2 x 500 MW), Bokaro TPS Extension (1 x 500 MW), Mejia 'B' TPS (2 x 500 MW) and Maithon RB (1000 MW)

The transmission system for evacuation of power from new generation capacity of DVC (including Maithon RB JV projects) was finalised in the Standing Committee meeting held at Puri on 05.05.2007 which are as follows :

- Maithon-Gaya 400 kV quad D/C line
- Gaya-Balia-Lucknow 765 kV S/C
- Gaya-Sasaram-Fatehpur-Agra 765 kV S/C
- Ranchi-Sipat (Pooling) 765 kV 2 x S/C
- Maithon RB-Ranchi 400 kV D/C line
- Maithon RB-Maithon 400 kV D/C line

The generation projects are scheduled for commissioning between December, 2009 and November,2010. MoP had directed Powergrid to take up the above transmission scheme and match the same with the generation projects.

This is for information of the members.

III Associated transmission system for Nabinagar TPP (4 x 250 MW), joint venture of NTPC & Railways

- 74% Equity from NTPC and 26% Equity approved under JV Company Limited
- 90% power for Railways and 10% power for the States of Bihar & Jharkhand (50 MW allocation to Bihar and 42 MW for Jharkhand)
- Dedicated transmission system for the project as identified :
 - 400 kV Navinagar TPP-Sasaram D/C line;
 - To tie up the connectivity and also the transmission system beyond Sasaram, NTPC/Navinagar JV Company would need to apply for open access to CTU;

NTPC's view on sharing of transmission charges in the ER regional pool for 400 Navinagar-Sasaram D/C line were not agreed to.

NTPC would take necessary action regarding open access application as well as tying up of the execution of the said line.

This is for information of the members.

IV Transmission System for Farakka III (500 MW MPP) of NTPC

- The proposed transmission system as identified is :
2nd 400 kV Farakka-Kahalgaon D/C line
- Proposed allocation of power from Farakka III
ER - 50 MW, WR - 205 MW and NR - 245 MW
- NTPC agreed to bear ER transmission charges corresponding to full 500 MW capacity of Farakka III (if ER constituents do not agree) and Powergrid was requested to expedite the implementation of the works.

In addition to above, it was decided to place before ERPC for consideration of the proposal of pooling the transmission charges of the following schemes :

- i) 400 kV Parulia-Jamshedpur-Baripada-Mendashal D/C line with 40% of 2920 MW (1925 MW of WBSETCL and 1000 MW of DVC)
- ii) Bolangir 400 kV S/s with ER share in North Karanpura.

Members may please opine.

V Transfer of power to the various beneficiaries from Generation Projects of Chitrapur (480 MW) of Jharkhand to NR/WR and KVK Nilachal (560 MW) of Orissa to ER/NR/WR/SR.

- Proposal of M/s PTC to transfer 480 MW of power from September'09 through LTOA.
- Transmission system from Chitrapur generation switchyard to Ranchi 400 kV D/C line.
- Proposal of M/s KVK Nilachal power from December'09 through LTOA.
- Transmission system by making LILO of one circuit of Baripada-Mendashal D/C line at generation switchyard envisaged.

Members may please discuss and opine.

VI Transmission Proposal of WBSETCL during 11th Plan period

- i) 220 kV D/C line from Dalkhola (PG) to proposed 220/132 kV Dalkhola S/s of WBSETCL.
 - The proposal was agreed subject to confirmation by Powergrid regarding availability of space for bays and WBSETCL bearing cost of the bays at Dalkhola (PG).

- ii) 400 kV Subhasgram(PG)-Jagatballavpur D/C line
 - Powergrid confirmed availability of space for 2 nos. of 400 kV bays at Subhasgram S/s for termination of the line on cost basis for connecting WBSETCL line from Jagatballavpur S/s.
- iii) LILO of one circuit of 400 kV Maithon-Ranchi D/C line at Purulia Pumped Storage Project (PPSP)
 - WBSETCL would need to apply for open access for firming up because this involves injection of power in the regional grid system.
- iv) 400 kV Guptomani-Jamshedpur D/C line
 - WBSETCL would need to apply for open access indicating the quantum and likely beneficiaries for firming up the proposal as well as necessary strengthening beyond Jamshedpur.
- v) 400 kV Gokarna-Binaguri (PG) /Purnea(PG) D/C line
 - The proposal of WBSETCL for North-South Bengal system connectivity need to carry out study under various scenarios for its justification.
- vi) 132 kV connectivity with Melli(Sikkim) to WBSETCL system at Kalimpong
 - Due to ROW constraints WBSETCL was requested to consider 132 kV D/C line between Chalsa and Kalimpong.

This is for information of the members.

VII Establishment of 400/220 kV S/S Bolangir by LILO of 400 kV Meramundali-Jeypore S/C line.

- The proposal for firming up as a regional scheme is to be discussed in the ERPC meeting.

Members may please discuss.

COMMERCIAL MATTERS

ITEM NO. 7 A) PAYMENT OF UI -- PRESENT STATUS

Summary of UI Receipt / Payment status for bills up to 20.01.2008 (Week 42 of 2007-08) as received from ERLDC is indicated at **Annexure-III**.

Members may please note.

B) REACTIVE ENERGY CHARGES -- PRESENT STATUS

The updated position of Receipt / Payment in the Pool as on 01.02.2008 as received from ERLDC on account of Reactive Energy Charges as per published account up to 20.01.2008 is given in **Annexure-IV**.

Members may please note and deliberate.

In this connection, it is informed that an amount of Rs.1,20,000/- has been spent by ERLDC for the Workshop on **“Black Start Operation Procedure”** conducted for OPTCL/GRIDCO, DVC and WBSEDCL/WBSETCL engineers on 25.08.07, 05.10.07 and 08.02.08 respectively.

Further, it is informed that, in accordance with the decision taken in the erstwhile EREB forum, capacitor banks were proposed to be installed in erstwhile WBSEB system as part of system strengthening scheme, utilizing the fund available in the reactive pool account. However, the capacitor banks have not been installed. In the 6th Commercial Sub-Committee meeting held on 16.01.08, it has been decided that, in view of the revised regulation of CERC, stipulating the utilization of fund available in the reactive energy pool account for training purposes, therefore, WBSEDCL has been advised not to proceed further for installation of capacitor banks utilising the reactive pool fund.

Members may please deliberate.

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

The status of settlement of IRE account amongst ER, SR & NR as on 01.02.2008 as received from ERLDC are indicated below :

ER-SR

- IRE account reconciled and settled with SRLDC upto the week 35, i.e. upto 02.12.2007 for the year 2007-08.

ER-NR

- As per calculation net IRE amount receivable from NR upto 27.08.2006 is **Rs. 11264.63780 lakhs** out of which an amount of **Rs. 9642.74403 lakhs** is still pending.

Members may please deliberate.

ITEM NO. 8 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

NHPC had claimed deemed generation to the extent of 137.51 mU for the year 2006-07 for Rangit Station for the period of shutdown in accordance with Clause 41 of CERC regulation. The issue came up for discussions in the 4th TCC meeting held on 21.09.2007 at Gangtok. The issue was referred by the TCC members to the Commercial Sub-Committee for detailed deliberations.

In the 6th Commercial Sub-Committee meeting held on 16.01.08 the issue was deliberated at length.

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 also 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.

As no consensus could be arrived at in the meeting, the proposal of Member Secretary, ERPC of holding a separate meeting between NHPC and its beneficiaries was accepted by the members of the Commercial Sub-Committee.

A Special Commercial Sub-Committee meeting of ERPC was held on 06.02.2008 at NHPC office, Kolkata among the beneficiary constituents of Rangit, NHPC, ERPC and Powergrid. In this meeting also there was no consensus regarding the payment to NHPC on account of deemed generation to the extent of 137.51 MU for the year 2006-07. It was, however, decided that NHPC would submit a detailed statement of payments received from different beneficiaries of Rangit for the year 2006-07 on account of capacity charges and energy charges. The same would be scrutinised by the beneficiary constituents as well as ERPC. Thereafter, another meeting would be convened by ERPC for the settlement of the issue.

Put up to the members for information and further advice.

ITEM NO. 9 PROCEDURE FOR DISBURSEMENT OF UI CHARGES TO OTHER REGIONS – PROPOSAL OF NRPC

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 the subsequent payment to the inter-regional constituents on first charge basis.

NRPC Secretariat had submitted three proposals for disbursement of UI charges. These proposals were deliberated at length in the 6th Commercial Sub-Committee meeting held on 16.01.08 wherein the constituents of the 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.

The views of ER constituents have been conveyed to NRPC Secretariat by ERPC.

Put up to TCC for information.

ITEM NO. 10 COMMENCEMENT OF LONG TERM OPEN ACCESS (LTOA) POWER TRANSACTION BETWEEN DVC AND DTL (BRPL, BYPL & NDPL) AND RELATED ISSUES

The long term open access to the extent of 230 MW has been granted to DTL by Powergrid for bi-lateral sale of power by DVC to DTL. The scheduling has commenced with effect from 11.12.2007. Since DTL has become a long term customer, transmission charges corresponding to the long term open access of 230 MW has been booked against DTL from the month of December 2007. However, Powergrid has intimated that NDPL, BRPL and BYPL – three distribution companies of DTL have subsequently entered into a separate agreement with Powergrid for above transaction.

This is for information of the members.

ITEM NO. 11 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 1st 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.

In the 6th Commercial Sub-Committee meeting held on 16.01.08, it was further informed by NHPC that CEA had already recommended to MoP, GoI regarding allocation of power from Teesta Stage-V. The order from the Ministry is awaited.

Further, in the Commercial Sub-Committee meeting, it was emphasized that

- i) the modalities of testing of lines and commercial arrangement thereof for charging of Teesta-Binaguri circuits should be finalized beforehand and intimated to ERPC / ERLDC for accounting of energy;
- ii) the final metering arrangement, both at Binaguri as well as Teesta end including meter number, type, etc should be intimated to ERPC/ERLDC; and
- iii) the modalities of collection of meter readings on weekly and monthly basis and transmittal of the same to ERLDC/ERPC for UI and REA purposes should be finalized.

NHPC may please indicate the latest status.

As per the request of NHPC vide letter dated 25.01.2008, it is informed that a Special Commercial Sub-Committee meeting of ERPC was held on 06.02.2008 at NHPC office, Kolkata regarding provisional tariff of Teesta

Stage V HEP (3 x 170 MW) executed by NHPC in the central sector. Besides NHPC, the beneficiaries of Rangit HPS, ERPC and Powergrid attended the meeting.

All the beneficiary constituents present in the meeting unanimously accepted the provisional tariff of Rs.1.62 per unit (composite) as proposed by NHPC, subject to approval by CERC as per the petition filed by NHPC in this regard with CERC on 22.01.2008.

This is for the kind information of TCC members.

ITEM NO. 12 INCENTIVE ENERGY STATEMENT FOR NTPC STATIONS IN EASTERN REGION FOR THE PERIOD APRIL, 2007 TO SEPTEMBER, 2007.

The provisional quarterly incentive energy statements on cumulative basis for the period from April'07 to September'07 in respect of NTPC stations in Eastern Region have been finalized and issued by ERPC Secretariat. The stationwise statement is given in **Annexure-V**.

Members may please note.

ITEM NO. 13 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 of the Commercial Sub-Committee noted the above certification.

Put up for information of the TCC members.

ITEM NO. 14 COMMERCIAL OPERATION OF TRANSMISSION ASSETS

The following transmission elements associated with the Kahalgaon Stage-II (Extension Phase I) have been declared under commercial operation by Powergrid and was subsequently accepted in the 6th Commercial Sub-Committee meeting held on 16.01.08 :

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

Members may please approve.

ITEM NO. 15 400 KV ROURKELA-RAIPUR D/C LINE MADE LILO AT RAIGARH

The existing 400 kV Rourkela-Raipur D/C line has been made LILO at Raigarh S/S of WR. SEMs have also been installed at Raigarh end.

In the 6th Commercial Sub-Committee meeting held on 16.01.08 the members noted the above change and observed that 400 kV Rourkela-Raigarh D/C line would now become the inter-regional line instead of 400 kV Rourkela-Raipur D/C line. As such, the transmission charges for the portion from Raigarh to Raipur should be fully borne by WR constituents as the regional element of WR and the transmission charges of 400 kV Rourkela-Raigarh D/C line are to be borne by ER and WR in line with the existing norms.

In reply, Powergrid representative informed that they would discuss the issue with their counter part of WR and revert back.

Powergrid is requested to indicate the latest status in this regard.

Put up to TCC for further deliberation and advice.

ITEM NO. 16 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)

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.

TCC may please approve.

ITEM NO.17 3000 MW DIBANG MULTIPURPOSE PROJECT IN ARUNACHAL PRADESH – CONSENT FOR PURCHASE REGARDING

NHPC has been entrusted with the construction of 3000 MW Dibang Multipurpose Project in Arunachal Pradesh for execution. NHPC in their letter dated 25.01.08 addressed to BSEB, JSEB, GRIDCO, DVC, Deptt. of Power, Government of Sikkim and WBSEDCL intimated that

Memorandum of Agreement for the above project between NHPC and Govt. of Arunachal Pradesh has been signed on 24.06.07 and techno-economic clearance has been accorded by CEA on 23.01.08. The salient features of the project as intimated by NHPC are as under :

- a) The design energy of the project is 90% dependable year as worked out to be 11330 MUs.
- b) The estimated project cost at November 2007 price level to be Rs.16425.65 Crs. including IDC of Rs.2527.59 Crs.
- c) Schedule of completion of the project is about 9 years after approval from CCEA. The firm cost of the project will be known after CCEA approval.

NHPC requested constituent members to furnish their consent for the quantum of power for the above project at the rate which will be worked out by CERC based on guidelines prevailing at the time of commissioning of the project. The exact quantum of power to be allocated to each will be decided by MoP.

Members may please discuss and opine.

ITEM NO. 18 ANY OTHER POINT WITH PERMISSION OF THE CHAIR

EASTERN REGIONAL POWER COMMITTEE

**AGENDA FOR THE 6TH MEETING OF THE EASTERN
REGIONAL POWER COMMITTEE**

Time & Date: 11:00hrs. on 19.02.08 (Tuesday)

Venue : Hotel Swosti Plaza, Bhubaneswar
.....

ITEM NO.1 WELCOME ADDRESS BY GRIDCO – The Host Organisation.

**ITEM NO.2 INTRODUCTORY REMARKS BY MEMBER SECRETARY,
ERPC**

ITEM NO.3 REMARKS OF OTHER COMMITTEE MEMBERS.

ITEM NO.4 ADDRESS BY CHAIRPERSON, ERPC & CHAIRMAN, JSEB.

**ITEM NO.5 CONFIRMATION OF THE MINUTES OF THE 5TH ERPC
MEETING HELD ON 22.09.2007 AT GANGTOK**

No comments have been received from the constituent members on the minutes of the 5th ERPC meeting held on 22.09.07 at Gangtok issued vide letter no.ERPC/Committee/2007/4469-4516 dated 29.10.07.

Members may please confirm the minutes of the 5th ERPC Meeting.

**ITEM NO. 6 ISSUES REFERRED TO ERPC BY TCC MEMBERS OF THE
5TH TCC MEETING HELD YESTERDAY**

ITEM NO.7 CONSTITUTION OF ERPC

In pursuance of letter no.18/Board – 32/2004/1827 dated 08.08.06 from Govt. of Jharkhand, SAIL- Bokaro Steel Plant is the Member of ERPC in the category of Distribution Company in the State of Jharkhand for the year 2007-08.

ERPC Secretariat has issued several communications to Bokaro Steel plant for forwarding their nominations in ERPC and other Sub-Committees of ERPC to ERPC Secretariat. But no communication has been received from Bokaro Steel Plant. However, the representatives of BSP have attended a few OCC meetings of ERPC.

Further, it is informed that, in pursuance of letter no. R.&R. III-39/07 dated 21.06.07 from Govt. of Orissa, NESCO is the Member of ERPC in the category of Distribution Company in the State of Orissa for the year 2007-08. NESCO have very recently sent their nominations to ERPC and other Sub-Committees of ERPC.

This is for the information of the TCC members.

ITEM NO. 8 SELECTION OF CHAIRPERSON OF ERPC

The one year tenure of the incumbent Chairperson of ERPC i.e the Chairman, JSEB will be completed on 31.03.08

As per the provisions of the GoI Resolution dated 29.11.2005, "Chairperson of ERPC would represent the States of the Region by rotation in alphabetical order. Members of ERPC from that particular State would nominate the Chairperson of ERPC from amongst themselves. Term of the Chairperson would be for a period of one year."

Accordingly, the Chairperson during the first year of formation of ERPC i.e for the year 2006-07 was from the State of Bihar followed by Jharkhand in 2007-08. The Chairperson would be from the States of Orissa, Sikkim and West Bengal in the subsequent years in that order.

Accordingly, the Chairmen, OPTCL, OHPC and OPGC may please decide among themselves who would take over as the Chairperson, ERPC w.e.f 1st April, 2008.

Members of ERPC may please approve.

ITEM NO.9 FUNDING OF ERPC SECRETARIAT

(A) ERPC- ESTABLISHMENT FUND

In accordance with the decision taken in the 4th ERPC meeting held on 19.06.2007, ERPC Secretariat had opened a current account in SBI, Southern Avenue Branch, Kolkata in the name of "ERPC – Establishment Fund" (Account No. **30222076394**) for depositing the Cheques/Demand Drafts sent by the constituent members towards reimbursement of expenses of establishment of ERPC Secretariat.

Status of receipt of payment for the financial year 2007-08

The contribution of Rs.10.0 lakhs has **not** been received from

- a) BSHPC
- b) Govt. of Sikkim
- c) NESCO

d) BOKARO STEEL PLANT

The above mentioned members are requested to send their contributions immediately.

**(B) CONTRIBUTION IN ERPC – ESTABLISHMENT FUND
IN 2008-09**

As was agreed in the 3rd ERPC meeting held on 10.02.07, each member contributed Rs.2.50 lakhs per quarter in place of 2.30 lakhs (Rs.10.00 lakhs for 2007-08) for upgradation of the infrastructure facilities such as Computers, peripherals, modernisation of Conference Hall including its PA system, air-conditioning, etc. of ERPC Secretariat.

In the next financial year, ERPC Secretariat proposes to undertake renovation of interiors of the building. For this purpose, it is estimated that additional Rs.10.00 lakhs will be required.

It is proposed to marginally increase the contribution of each member to Rs.11.00 lakhs / year from the existing level of Rs.10.00 lakhs/ year to **ERPC Establishment Fund for the year 2008-09.**

Members may please agree.

(C) Status of Contribution to ERPC FUND for the year 2007

The contribution of **Rs.38,000/-** per member for the **year 2007** to **ERPC FUND** has *not* been received from the following organisations :

- i) Power Deptt., Govt. of Sikkim
- ii) BSHPC and
- iii) NESCO

The above mentioned organisations are requested to release the payment without further delay.

(D) Contribution to ERPC FUND for the year 2008

In view of continuously escalating market price and increasing number of meetings, conference, lectures etc. it is proposed that **members may accord their consent for enhancing the rate of contribution from Rs. 38,000/- to Rs.50,000/-per member per year.**

(D) Status of Contribution to ERPC FUND for the year 2006

The contribution of **Rs.38,000/-** per member for the year **2006** to **ERPC FUND** has *not* been received from the following organisations :

- i) Power Deptt., Govt. of Sikkim
- ii) Tata Steel Ltd.
- iii) BSHPC and
- iv) CESCO

Tata Steel Limited and CESCO were the members of ERPC in the year 2006-07 in the capacity of Distribution Company from the State of Jharkhand and Orissa respectively.

Members may like to discuss to find out the ways of realisation of the amount from the above mentioned organisation.

NOTE : : It has been experienced during the last two years after the inception of ERPC that the members of ERPC in the Capacity of Distribution Companies of the States have not shown enough interest in taking active role in the activities of ERPC and in releasing payments (in ERPC Establishment Fund/ ERPC Fund) either, seemingly because their tenure of membership of ERPC is only for *one* year.

Members may like to throw some light on this issue.

ITEM NO. 10 ANY OTHER POINT WITH THE PERMISSION OF CHAIR

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

As per the roster finalised in the first ERPC held at Kolkata on 25.05.06, next ERPC meeting is to be hosted by a member from Jharkhand. The Generating Companies and the Distribution Companies in the State of Jharkhand may please decide mutually among themselves who would host the next meeting and inform the house.

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
10.	BIHAR
11.	NTPC

Members may please also decide a tentative date and venue for the next meeting.

ITEM NO.11 VOTE OF THANKS BY GRIDCO