

पठाली योजना एवं परियोजना मूल्यांकन प्रभाग
सेवा भवन, रामाकृष्णापुरम्, नई दिल्ली-66

पत्रांक 26/10/2001 - प्र. यो. प. मू. / 228-37

दिनांक 16.5.2001

सेवामें

श्रीमान् सदस्यगण,
(संलग्न सूची के अनुसार)

विषय:- पश्चिमी क्षेत्र विद्युत पठाली योजना की स्थायी समिति की
तेरहवीं बैठक के कार्यवृत्त।

पश्चिमी क्षेत्र विद्युत पठाली योजना की स्थायी समिति की
तेरहवीं बैठक जो 4.5.2001 को बड़ोदरा में सम्पन्न हुई, के
कार्यवृत्त संलग्न हैं।

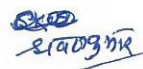
संलग्न :- उपरोक्त

आपका भवदीय

वी-रामाकृष्णा

(वी. रामाकृष्णा)

कार्यालय एवं मुख्य अभियंता


श. क. उ. म. र.

निगमित
16/5

Government of India
CENTRAL ELECTRICITY AUTHORITY
System Planning & Project Appraisal Division
Sewa Bhawan: R.K.Puram
New Delhi-110066

No.26/10/2001-SP&PA/

dated 16th May 2001

To

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**Subject: Minutes of the 13th Standing Committee meeting on Power System Planning
in western region held on 4-5-2001 at Vadodara.**

Sir,

Minutes of the 13th Standing Committee meeting on Power System Planning in Western
Region held on 4th May 2001 at Surya Palace, Sayaji Ganj, Vadodara are enclosed.

Encl: As above


16/5/2001
(V.Ramakrishna)
Chief Engineer (SP&PA)

Minutes of the 13th Meeting of the Standing Committee on Power System Planning in Western Region held on 4th May 2001 at Surya Palace, Sayaji Ganj, Vadodara

1. List of Participants is enclosed at Annex – I

Chief Engineer (SP&PA), CEA welcomed all the participants to the meeting. He stated the Standing Committee Meeting was held almost after a year. He stated that minutes of the previous meeting were circulated in April 2000 and no comments in this regard had been received from the members. He requested participants to confirm the minutes of previous Standing Committee Meeting.

The minutes were confirmed.

2. Sharing of Transmission Tariff for Rourkela-Raipur-Chandrapur 400 kV D/C line

Chief Engineer (SP&PA) stated that in order to transfer surplus power from Eastern Region to Western Region, a 400 kV D/C line between Rourkela and Raipur was approved by Government of India. As there was no consensus among Western Region constituents regarding sharing of cost of this Inter-Regional line, pending finalization, MPEB had agreed to bear incidental transmission charges so that the implementation of the project could be taken up. He informed that this line was now scheduled for commissioning during the year 2003-04. He further added that with the creation of new state of Chattisgarh and CSEB (Chattisgarh State Electricity Board) and it not needing surplus power from Eastern Region, there was a need for review of the sharing of cost of this inter-Regional line. The utilization of this line by Southern Region for transfer of surplus power from Eastern Region was also discussed with Southern Region constituents and they had indicated their willingness to consider sharing the cost for Rourkela-Raipur-Chandrapur 400 kV D/C line. He requested the constituents to convey their agreement to share the cost of above line.

ACE (GEB) said that load flow studies indicated less power flow on this line. CE (SP&PA) stated that earlier load flow studies were usually carried out on regional self-sufficiency basis. The concept of planning had now been changed from region to nation as a basic unit of planning, considering various probable import/export scenarios. He further added as the generation resources viz. coal was available in Eastern Region and hydro in North Eastern Region and power generated from these resources had to be utilized in other deficient Regions. Talcher, Hirma and Ennore projects were few examples where projects were located in one Region and power allocated to states in other Region(s). Thus power flow studies were carried out on All India basis and further sensitivity analysis were also carried out for different scenarios of export/import. He then requested the members to express their view points.

Chief Engineer (GEB) stated the issue of sharing of cost of Rourkela-Raipur 400 kV D/C line was discussed in last WREB meeting and both GEB and MSEB had objected to share the cost of this line without any specific allocation of power.

Chief Engineer (SP&PA) stated that at present three 220 kV single circuit lines between Korba and Budipadar was existing. These lines could import not more than 400 MW of power and out of this GEB was allocated 50 MW. Additional power though available in Eastern Region could not be passed on to GEB in the absence of adequate Inter-Regional lines. He further stated that Gandhar Extn. and Kawas Extn. Gas projects of NTPC were not likely to come up during 9th Plan and there were many such projects in Gujarat, M.P. and Maharashtra, which might not yield benefits during 9th or early 10th Plan. Power shortage on account of slippages of these projects could be overcome to a certain extent by importing surplus power from Eastern Region over this line. Further, only 3 years would be required to commission this line. As coal resources was mainly available in Eastern Region, for optimization of cost, importing power on this line would be a cheaper option. Further, as cost of this line (Rourkela-Raipur) would also be shared by Eastern and Southern Regions, Western Region had to bear only a portion of cost for this line.

Chief Engineer (GEB) wanted firm/committed allocation of power from surplus available in Eastern Region so that their management could be appraised accordingly.

DGM (Engg.), POWERGRID stated there were two types of Central Sector lines: (1) Specific lines for evacuating power from Regional Central Sector projects. (2) Inter-Regional lines which carried surplus power from one region to other on as and when available basis. These Inter-Regional lines were for emergency exchange of power and there could not be any firm allotment. He further said unless constituents agreed to bear transmission charges for these lines, no surplus power could be transported to the constituents.

SE (PSP), MPEB was of the view that first methodology for sharing of cost of Inter-Regional lines and dedicated lines should be finalized. It should be either on line use basis or equal landed cost basis.

Chief Engineer (SP&PA) stated that the method of sharing of cost were decided by constituents at REB forum and was in vogue for last 25 years. Any change in methodology had to be discussed and deliberated at REB forum. Further, CERC had issued guidelines for sharing of transmission-tariff for Inter-Regional lines on 50-50% basis.

AGM (Elect.) NTPC also endorsed this view and stated that construction of Inter-Regional line could not be based on firm allocation.

Chief Engineer (Tr. Plg.), MSEB stated as the present proposal for sharing of cost for Rourkela-Raipur-Chandrapur 400 kV D/C line was different from the one discussed at

last WREB meeting (which was not agreeable to MSEB), he would like to discuss it with the higher authorities.

GM (Engg.), POWERGRID stated that lack of Inter-Regional links had resulted in a situation in which there was surplus of power in Eastern Region and their plants were operating at very low plant load factor and there was load shedding in other Regions. He further stated that in last WREB meeting, MSEB had indicated its willingness to buy power from Khalgaon, Barh and North Karanpura TPS located in Eastern Region and without Inter-Regional links this power could not be transported to Maharashtra.

DGM (Engg.) POWERGRID informed that in the WREB meeting it was decided that first the proposal should be discussed in Standing Committee Meeting. He further informed that indicative figures of Annual charges for Raipur-Chandrapur 400 kV D/C and Rourkela-Raipur 400 kV D/C lines were Rs. 3.3 Cr/months and Rs. 3.49 Cr/months respectively. If Western Region constituents alone bear the cost of Raipur-Chandrapur, they would incur Rs.3.49Cr/month. He added that according to new proposal i.e., if Southern Region and Western Region bear 50% each for Raipur-Chandrapur 400 kV D/C line and Southern Region, Western Region and Eastern Region shared one third of the cost for Rourkela-Raipur 400 kV D/C line, then Western Region constituents would be bearing 1.16 Cr/month for Rourkela-Raipur and Rs. 1.65 Cr/month for Raipur-Chandrapur 400 kV D/C line. In that way Western Region constituents would bearing Rs. 2.81 Cr/month for entire Rourkela-Raipur-Chandrapur 400 kV D/C line and there would be net saving.

Chief Engineer (Tr. Plg) CSEB stated that CSEB would not require any power. He further stated that at present both Eastern Region and Western Region were operating at different frequencies and when this line would be used, difference of frequency could cause problem. He further stated that there was proposal for HVDC back-to-back at Raipur that was not agreed to, instead a 3rd 220 kV Ckt. between Korba and Budipadar was constructed.

Chief Engineer (SP&PA) stated that there was no proposal for Raipur HVDC back-to-back at any point of time. He further stated that 3rd 220 kV Ckt. between Korba and Budipadar was added to provide reliability, as other 2 ckts. were carrying about 380 MW continuously.

After further discussions it was decided that the constituents would put up the new proposal of cost sharing for Rourkela-Raipur-Chandrapur 400 kV D/C line to their respective authority and would convey their decision to CEA within a fortnight.

3. Transmission System Associated with Sipat STPS

Chief Engineer (SP&PA) stated that transmission system associated with Sipat STPS Stage-I (3x660 MW) was discussed in detail with MPEB Engineers after 12th Standing Committee Meeting. MPEB had written to CEA conveying their concurrence

to all the line sections except two where there was some disagreement. First related to Chhegaon-Rajgarh 400 kV D/C line which MPEB wanted to include with Sipat Stage-I and CEA stated that it would be considered alongwith Sipat Stage-II transmission system and second on Raipur-Chandrapur 400 kV D/C line which MPEB wanted to be constructed as Inter-Regional line. The second issue had already been discussed. He further stated that PGCIL had carried out preliminary survey and had indicated that proposed site for 400 kV S/S would be at Khandwa instead of Chhegaon.

SE (PSP), MPEB stated that 400 kV Bina-Nagda D/C line had been included as a part of evacuation system for Hirma project and if Hirma got delayed then in absence of this line there would be a need for 400 kV Chhegaon-Rajgarh line.

Chief Engineer (SP&PA) stated that we may agree to the Sipat transmission as proposed by CEA and in case a decision on Hirma project did not materialize within the next year another Standing Committee Meeting could be called to discuss this issue.

Chief Engineer (Tr. Plg) CSEB said norms should be decided to the extent of facilities to be covered up under a particular project.

Chief Engineer (SP&PA) stated that planning studies were carried out considering the implementation of generation projects in a specific time frame. The additional facilities to be created under each generating project were finalized in consultation with the beneficiaries. This procedure had been followed for last 25 years.

DGM (Engg.) POWERGRID stated that power to respective states flowed through displacement and creation of S/S facilities were decided by system requirement.

4. Transmission system associated with Tarapur (TAPP) Extn. i.e. Unit 3x4 (2x500 MW)

Chief Engineer (SP&PA) stated that NPC had not indicated to CEA the beneficiaries and their allocation from the project.

Dy. CE (Elect. Design), NPC stated that TAPP (Extn.) was a regional project and Ministry of Power had given tentative allocation of power from the project to various constituents of Western Region which was placed before members in the 114th Meeting of WREB. He further stated that project would be commissioned by 2005 and beneficiaries from the project would be sharing the cost.

SE (PSP) MPEB stated that MPEB did not desire to have shares in Tarapur nuclear power station. Similarly CSEB, Chief Engineer also stated that they would not be buying power from the project.

ACE (Tr.), GEB wanted that NPC should indicate equalized tariff. He further stated that if Gandhar and Kawas Extn. projects were not coming then Vapi 400 kV S/S should be included with TAPP Extn. He requested CEA to study LILO of Nasik-Navsari 220 kV D/C line at 400/220 kV new Vapi substation.

Chief Engineer (Tr. Plg) MSEB confirmed that space could be made available for terminating 3rd 400 kV line bay at Padghe S/S.

Chief Engineer (SP&PA) stated that in last Standing Committee Meeting it was decided that the construction of 220 kV line between TAPP 3&4 and Boiser S/S as second source of start up power would be discussed between NPC and PGCIL and if required, PGCIL could construct this line as deposit work. He further stated that this issue had been resolved and this line would be constructed as a part of evacuation system to match with commissioning of generating units.

5. Proposal for additional 400 kV circuit between Itarsi and Indore

Chief Engineer (SP&PA) stated that Member Secretary (WREB) had requested CEA to examine the possibility of construction of one more 400 kV circuit between Itarsi and Indore in order to overcome low voltage condition prevailing in Indore. He said that this had been examined in CEA keeping in view long-term perspective transmission plan. It has been found that establishment of 400 kV S/S at Khandwa by LILO of both circuits of Itarsi-Dhule line at Khandwa would relieve overloading of Itarsi-Indore 400 kV lines. He said this could be achieved in two ways, (i) Khandwa S/S could be established as a part of evacuation system of Sipat STPP Stage-I and could be constructed well in advance, i.e. in two years time frame. (ii) Khandwa S/S could be delinked from Sipat transmission, be constructed as stand-alone system strengthening. POWERGRID could get the proposal approved from their Board and take up the implementation on priority basis. In both cases, transmission charges would become incident after commissioning of Khandwa S/S. He requested members to deliberate.

Chief Engineer (Tr.) GEB stated that GEB would study this new proposal and would confirm later on. SE (PSP) MPEB stated that this was discussed in WREB meeting and it was decided that it should be finalized in the Standing Committee Meeting. He said that MPEB was in favour of constructing this S/S as early as possible as system strengthening project. Chief Engineer (Tr.) CSEB was not in favour of constructing 3rd circuit between Itarsi and Indore. After further discussion it was decided that participants would put up the proposal to their higher authorities and convey their decision to CEA by end of May, 2001.

CE (SP&PA) thanked POWERGRID for hosting the meeting. He said that another meeting at level of Technical Member of SEBs would be called in Delhi to take final decision on these issues in the first week of June 2001.

List of Participants

The following officers participated in the 13th Standing Committee Meeting on power system planning held on 04-05-2001 at Surya Palace, Sayaji Ganj, Vadodara.

S. No.	Name	Designation	Organization
1	V. Ramakrishna	CE (SP&PA)	CEA
2	Ravinder Gupta	DD (SP&PA)	CEA
3	J.T. Baxi	CE (Tr.)	GEB
4	J.B. Shah	ACE (Tr.)	GEB
5	N.N. Misra	AGM (Elect.)	NTPC
6	I.S. Jha	DGM (Engg.)	POWERGRID
7	V.K. Prasher	GM (Engg.)	POWERGRID
8	Rajesh Laad	Dy. CE (Elect.Design)	NPCIL
9	Dr.R.P. Bhatele	SE (PSP)	MPEB
10	A.B. Sethji	CE (Tr. Plg.)	MSEB
11	Shiv Raj Singh	CE (Tr.)	CSEB

List of Participants

13

The following officers participated in the 13th Standing Committee Meeting on power system planning held on 04-05-2001 at Surya Palace, Sayaji Ganj, Vadodara.

S.No.	Name	Designation	Organization	Signature
1	Rajesh Laad	Dy C.E. (Elect. Design)	NIPCI MUMBAI	Rajesh Laad
2	N. N. MISRA	AGM (EW)	NTPC	N. N. Misra
3	Shiv Raj Singh	CE (TR)	C.S.E.B	Shiv Raj Singh
4	I. S. JHA	DGM (Engg)	POWERGRID	I. S. Jha
5	V. K. PRASHER	GM (Engg)	POWERGRID	V. K. Prasher
6	V. RAMAKRISHNA	CE (SP&PA)	CEA	V. Ramakrishna
7	R. Gupta	D. D. (SP&PA)	CEA	R. Gupta
8	A. B. Shethji	C.E. (TR. PI)	M.S.E.B	A. B. Shethji
9	Dr R. P. Bhatnagar	SE (PSD)	M.P.S.E.B	Dr R. P. Bhatnagar
10	J. T. Badi	CE (TR)	G.E.B	J. T. Badi
11	J. B. SHAH	ACE (TR)	G.E.B.	J. B. Shah
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