# No. 16/27/99-PA (N)/ 1679-1717 GOVERNMENT OF INDIA CENTRAL WATER COMMISSION PROJECT APPRAISAL (NORTH) DIRECTORATE

407, SEWA BHAVAN, RK PURAM, NEW DELHI-110 066. FAX-6103561

Dated: 23 August 1999.

Subject: 71st meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 3/8/1999.

Summary record of discussions of the above meeting held at New Delhi on 3rd August 1999 is enclosed for information and necessary action please.

Encl.: As stated above.

Member Secretary -Advisory Committee

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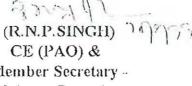
#### MEMBERS OF COMMITTEE:

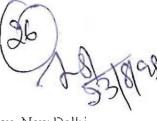
1. Chairman, CWC, Sewa Bhawan, R.K.Puram, New Delhi.

Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.

Secretary, Department of Power, S.S. Bhawan, New Delhi.

- Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
- Secretary, Ministry of Welfare, R. No. 604, A-Wing, Shastri Bhawan, New Delhi.
- Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
- Director General, ICAR, Krishi Bhawan, New Delhi. -7.
  - Chairman, CEA, Sewa Bhawan, R.K.Puram, New Delhi.
- Chainnan, Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi.
- 10. Adviser (I&CAD), Planning Commission, Yojana Bhawan, New Delhi.
- 11. Adviser (Energy), Planning Commission, Yojana Bhawan, New Delhi.
- 12. Financial Adviser, Ministry of Water Resources, S.S.Bhawan, New Delhi.





# MEMBERS OF COMMITTEE:

- I. Chairman, CWC, Sewa Bhawan, R.K.Puram, New Delhi.
- 2. Secretary (Expenditure), Ministry of Pinance, North Block, New Delhi.
- 3. Secretary, Department of Power, 8.S. Bhawan, New Delbi.
- 4. Secretary, Ministry of Environment & Forests, Paryawaran Bhawan, CGO Complex, New Delhi.
- 5. Secretary, Ministry of Welfare, R. No. 604, A-Wing, Shastri Bhawan, New Delhi.
- 6. Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
- 7. Director General, CAR, Krishi Bhawan, New Delhi.
- 8. Chairman, CEA, Sewa Bhawan, R.K. Furam, New Delhi.
- 9. Chairman Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi.
- 10. Adviser (1&CAD), Planning Commission, Yojana Bhawan, New Delhi.
- 11. Adviser (Energy), Planning Commission, Yojana Bhawan, New Delhi.
- 12. Einancial Adviser, Ministry of Water Resources, S.S.Bhawan, New Delhi.

#### Special Invitees:

- 1. Member (D&R), CWC, New Delhi.
- 2. Member (WP&P), CWC, New Delhi.
- 3. Member (RM), CWC, New Delhi.
- 4. Commissioner (Projects), Ministry of Water Resources, New Delhi.
- 5. Commissioner (Indus), Ministry of Water Resources, CGO Complex, Lodi Road, New Delhi.
- 6. Chief Engineer (PPO), CWC, New Delhi.
- 7. Chief Engineer (FMO), CWC, New Delhi.
- 8. Engineer-in-Chief, Irrigation Department, Govt. of Orissa, Secha Sadan. Bhubneshwar-751 001.
- Shri D.K. Singh, Advisor (IFC&W&M), Ministry of Home Affaires, Govt. of India. Secretariat, Shillong-793 001 (Fax No. 0364-222140).
- 10. Shri P.N. Sinha, Chief Engineer, Irrigation Department, Govt. of Bihar, Post & Distt.-Deoghar.
- Chief Engineer, Himachal Pradesh State Electricity Board, Govt. of Himachal Pradesh, Shimla-174 402.
- 12. Chief Engineer, Irrigation and Planning, Irrigation Deptt., Govt. of Maharashtra, Mantialaya, Bombay-400 032.
- 13. Chief Engineer (Indus)/Director (Mon.), CWC, Block-4, 6th Floor, Kendriya Sadan, Sector-9, Chandigarh 160017.
- 14. Chief Engineer, Kandi Canal, Irrigation Works, Govt. of Punjab, Chandigarh.
- 15. Shri S.K.Gupta, Chief Engineer (North), Irrigation Department, Government of Rajasthan, Hanumangarh Junction, Rajasthan.
- 16. Shri G.S.Chaudhary, Chief Engineer, Irrigation Department, Govt. of Rajasthan, Jaipur-302004.
- 17. Director, Project Appraisal (North), CWC, New Delhi.
- 18. Director, Project Appraisal (Central), CWC, New Delhi.
- 19. Director, Project Appraisal (South), CWC, New Delhi.
- 20. Director, Cost Appraisal (Irrigation), CWC, New Delhi.
- Director (Appraisal), CWC, CGO Complex, Block-C, 3<sup>rd</sup> Floor, Seminary Hills, Nagpur-440006.
- 22. Director (PP-N&S), CWC, New Delhi.
- 23. Director (FM-I), CWC, New Delhi.

#### Copy for information to:

- Commissioner and Secretary, Water Resources Deptt.. Govt. of Bihar, Sinchai Bhawan, Patna-860015.
- 2. Secretary, Irrigation Department, Govt. of Orissa, Secha Sadan, Bhubneshwar- 751 001.
- 3. Chief Engineer, CWC, Nagpur.
- PPS to Secretary, Ministry of Water Resources, New Delhi.

Summary Record of discussions of the 71<sup>st</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 3/08/1999.

The 71<sup>st</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects was held on 3/08/99 at 1500 Hrs. in the Committee Room of Ministry of Labour, S.S.Bhawan, Rafi Marg, New Delhi, under the Chairmanship of Secretary, Ministry of Water Resources. A list of participants is enclosed at Annexure - I.

Chairman of the Advisory Committee welcomed all the participants and thereafter discussions on the following projects were taken up as per the agenda.

# 1. <u>UPPER KOLAB IRRIGATION PROJECT - EXTENSION OF AYACUT AT</u> 14.3 KMS. OF JEYPORE MAIN CANAL - ORISSA (NEW MAJOR)

Estimated Cost : Rs. 71.66 Cr. (SOR - 1998)

CCA : 12052 ha. Annual Irrigation : 19283 ha.

Chief Engineer (PAO) briefly explained the project proposal and put up the same for the consideration of the Committee. Adviser (I&CAD), Planning Commission indicated that the Committee of Secretaries in had recommended for single window clearance of the project and as such only those projects for which all statutory clearances have been obtained and which have been found techno-economically viable should be considered for clearance in the meeting. While agreeing with the need for single window clearance, Secretary (MOWR) indicated that normally clearance from Ministry of Environment & Forests and Ministry of Welfare takes longer time because of different formalities involved in it. As such the practice of according technoeconomic clearance by the Advisory Committee is being continued. Representative from Planning Commission wanted that this issue should be sorted out forever before taking up discussion on the individual project. Secretary, (MOWR) pointed out that some ongoing projects, which have not been accorded investment clearance by the Planning Commission, are getting fund from the Government of India for is implementation. The Planning Commission may consider enforcing financial discipline while allocating funds to the Projects. Representative from NEC pointed out that even Ministry of Environment & Forests are also giving conditional clearances in respect of many projects. Further, it was also intimated that the

MOE&F and MOSJ&E desire to know whether the project has been accepted by the Advisory Committee before processing the case in their Ministries. If all formalities are required to be completed before putting up to the Advisory Committee, the clearance of the project would be delayed considerably. Representative from Planning Commission indicated that if clearances from Ministry of Environment & Forests and Ministry of Social Justice and Empowerment are not obtained before hand, it would not be possible to finalize the cost of the project as it would not include the cost of R&R package to be given to the oustees and land acquisition. To this it was clarified that adequate permission for these items are included in the Cost Estimate. After discussion, it was decided that a cabinet note for constituting an Apex Committee consisting of representatives of Ministry of Water Resources, Ministry of Environment & Forests, Ministry of Social Justice & Empowerment and Planning Commission would be prepared by the MOWR for single window clearance, after the projects has been accepted from technoeconomic angle by the Advisory Committee.

After the above decision, Upper Kolab Irrigation Project was taken up for discussion. On a querry from the representative of the Planning Commission it was clarified that the project did not include lift water component. Representative from Government of Orissa indicated that no forest land is involved in this project. However, it was clarified that a certificate to this effect would have to be obtained by the Irrigation Department from the Forest Department for consideration of the investment clearance of the project. After some discussion, the project was found acceptable by the Advisory Committee from technoeconomic consideration. However, the State Government would need to obtain clearance of the project from Ministry of Environment & Forests and Ministry of Social Justice & Empowerment and concurrence of State Finance Department for the updated cost of Rs. 71.66 crore before the investment clearance is accorded by the Planning Commission. It was also indicated that lift irrigation should not be taken up unless upto date water availability is established for the same.

# 2. RENUKA DAM PROJECT (MULTIPURPOSE) - H.P. (NEW-MAJOR)

Estimated Cost : Rs. 1224.64 Cr. (SOR May 1997)

CCA : Not Applicable.
Annual Irrigation : Not Applicable.

Discussions on the project started after a brief description of the project proposal by CE (PAO). Representatives of Himachal Pradesh State Electricity Board and Central Electricity Authority expressed reservation about the cost allocation to power component. It was indicated that cost allocation to power component is very high and it would be very difficult to justify the project as the cost of power generation works out to about Rs. 10 Crore/MW. Member (Technical), Himachal Pradesh State Electricity Board indicated that the power component in the project was included on the request of Government of Delhi to make the proposal more attractive. However, in the present case the cost of power generation per unit works out to about Rs. 4.00 whereas the present rate being charged from consumer in Himachal Pradesh is Rs. 1.50 only. As such, the Himachal Pradesh Electricity Board will incur a loss of Rs. 2.50 per unit of power generated. Secretary, Water Resources also agreed with the views of CEA and HPSEB and told that there is need for review of cost allocation between the power and water supply. Representative from Delhi Jal Board expressed concern about the water carrier system, which has to pass though the territory of Haryana. Member (WP&P) suggested that issue of water carrier system though Haryana is required to be sorted out by Delhi itself because there is no other alternative route to bring water from H.P. for Delhi. He also indicated that Delhi Government might also explore the possibility of cheaper alternative source of water supply to Delhi. As regards the acceptance of the Project by Government of Delhi, the representative from Delhi Jal Board intimated that the proposal is still under consideration by Government of Delhi. In view of this, the representative of Planning Commission said that the project should not be accepted! Accordingly, it was decided to consider the project after In the meantime the the acceptance of the project by the Government of Delhi and review of cost allocation by may be reviewed by CWC in consultation with CEA, HPSEB and Government of Delhi.

(Action: CWC/Delhi Government/HPSEB)

### 3. <u>UTAWALI IRRIGATION PROJECT – MAHARASHTRA (NEW-MEDIUM)</u>

Estimated Cost : Rs. 35.78 Cr. (SOR 1996-97)

CCA : 4650 ha. Annual Irrigation : 5394 ha.

After brief description of the project proposal by CE (PAO), the representative from Maharashtra intimated that in principle forest clearance has already been accorded by Forest Department in respect of this project. Regarding concurrence of the State Finance Department for the updated cost, it was indicated that the same would be obtained after acceptance of the project by the Advisory Committee. In general, it was felt that project proposal is attractive. After some discussion, the project was accepted by the Advisory Committee. However, the State Government would need to obtain formal clearance from Ministry of Environment & Forests for diversion of 135 ha. of forest land and concurrence of State Finance Department for the updated cost before the investment clearance is accorded by the Planning Commission. It was also suggested that GSDA, Government of Maharashtra would have to plan for utilization of assured ground water potential of 9.50 MCM simultaneously along with the project and ground water levels should be monitored in the post irrigation scenario.

(Action: State Government)

#### 4. RET IRRIGATION PROJECT - ORISSA (NEW-MEDIUM).

Estimated Cost : Rs. 86.14 Cr. (SOR March 1999)

CCA : 8500 ha.
Annual Irrigation : 9775 ha.

Chief Engineer (PAO), CWC while briefly explaining the project proposal, indicated that this Medium Irrigation project falls in the KBK Region of Orissa, which is drought prone. The Representative from Indian Council of Agriculture Research emphasized the need to diversify the cropping pattern. He suggested that since the area is drought prone it would be appropriate to reduce the area of paddy crop and propose some other crop requiring less water. Secretary, Water Resources clarified that the problem of KBK Region is different from other drought prone areas. He told that the gap between two rains is very wide as a result, of which the crops sown in the beginning of the monsoon get affected due to shortage of water. As such there is



need to have storage in this area so that water requirement of the crop could be met in time. Representative from Ministry of Agriculture emphasized the need for catchment area treatment plan for directly draining area. It was clarified by Member (WP&P) that only a limited catchment area can be taken up for treatment at the cost of the irrigation project and rest area can be taken up for treatment by Ministry of Agriculture under Integrated Plan for soil conservation. Finally, the project was accepted from techno-economic angle. However, State Government would need to obtain the clearances from Ministry of Social Justice & Empowerment, Ministry of Environment & Forests and concurrence of State Finance Department for updated cost. It was also suggested that ground water levels in post irrigation stage should be monitored and necessary ground water utilization plan be prepared in consultation with State Ground Water Department.

(Action: State Government)

# 5. <u>TELENGIRI IRRIGATION PROJECT - ORISSA (NEW – MEDIUM).</u>

Estimated Cost : Rs. 106.18 Cr. (SOR March 1999)

CCA : 9950 ha. Annual Irrigation : 13829 ha.

This project also falls in KBK Region of Orissa. After brief discussion of the project proposal, the project was found acceptable by the Advisory Committee from techno-economic consideration. However, State Government would need to obtain clearances from Ministry of Social Welfare & Empowerment for R&R Plan for tribal population, forest clearance from Ministry of Environment & Forests and concurrence of State Finance Department for the updated cost. It was also suggested that ground water levels in the post irrigation stage should be monitored and ground water utilization plan should be prepared in consultation with State Ground Water Department.

# 6. <u>SUPPLEMENTARY NOTEON JIRI MEDIUM IRRIGATION PROJECT-MANIPUR/ASSAM (NEW-MEDIUM)</u>

Estimated Cost : Rs. 48.68 Cr. (SOR 1996-97)

CCA : 5750 ha.
Annual Irrigation : 9775 ha.

It was informed by the CE (PAO) that the inter-state agreement for which the acceptance of the project was deferred in the last meeting of the Advisory Committee had been signed by the beneficiary States of Manipur and Assam. As such the project was accepted by the Advisory Committee from techno-economic consideration.

(Action: State Government)

# KANDI CANAL EXTENSION FROM HOSHIARPUR TO BALACHAUR – PUNJAB (NEW-MAJOR)

Estimated Cost : Rs. 147.12 Cr. (SOR May 1997)

CCA : 29527 ha. Annual Irrigation : 23326 ha.

Chief Engineer (PAO) informed that the present project proposal envisaged extension of existing Kandi Canal from Hoshiarpur to Balachaur for utilization of remaining 258 cusecs of water. Representative from Government of Punjab informed that Environment Impact Assessment Report of the Project had been got prepared from Expert Organizations and would be submitted soon to the Ministry of Environment & Forests. After brief discussion, the project was accepted by the Advisory Committee. However, State Government would need to obtain environmental and forest clearance from Ministry of Environment & Forests for investment clearance by the Planning Commission. It was suggested that State Government would ensure consumptive use of surface and ground water and monitor ground water levels in the command area and review overall planning after five years of operation of canal on the basis of actual canal, conveyance and field application efficiency.

#### UPPER KIUL RESERVOIR PROJECT – BIHAR (NEW-REVISED)

Estimated Cost

Rs. 106.53 Cr. (SOR 1997)

CCA

16673 ha.

Annual Irrigation

19000 ha.

After brief description of the project proposal by CE (PAO), the Project was taken up for discussion. Secretary, Water Resources desired to know the target date of completion of the project and whether any benefit is accruing from the project. Chief Engineer, Government of Bihar intimated that the project is targeted to be completed in June 2000. He also informed that the project is getting assistance under AIBP and about 9500 ha. of command area was being irrigated last year which is likely to increase to about 11,000 ha. during current season. After some discussion, the project was accepted by the Advisory Committee. However, State Government would need to obtain environment and forest clearance from Ministry of Environment & Forests before investment clearance is accorded by the Planning Commission.

(Action: State Government)

# 9. <u>FLOOD PROTECTION/DIVERSION SCHEME OF KOTA CITY</u> (PHASE-I) – RAJASTHAN (MAJOR)

Estimated Cost

Rs. 19. 75 Cr.

CCA

- NA

Annual Irrigation

- N

Chief Engineer (FM), CWC explained the project proposal and intimated that flood threat to Kota City would be eased out by diverting 30,000 cusecs of flood water to river Chambal, Upstream of Kota Barrage by constructing a pickup weir-cum-diversion channel. State officials showed some photographs of flood affected area. After discussion, the project was accepted by the Advisory Committee.

# MODIFIED PROJECATOF GHAGGAR FLOOD CONTROL – RAJASTHAN (MAJOR)

**Estimated Cost** 

Rs. 101.69 Cr.

CCA

-NA

Annual Irrigation

- NA

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Chief Engineer (FM) explained the project proposal in brief and intimated that the project had already been cleared by Ghaggar Standing Committee from inter-state angle in its meeting held on 22.2.99. After some discussion, the project was accepted by the Advisory Committee. However, State Government was advised to obtain clearance from Ministry of Environment & Forests and Central Ground Water Board.

(Action: State Government)

The meeting ended with vote of thanks to the Chair.

# Annexure - I

# LIST OF PARTICIPANTS

## MEMBERS OF COMMITTEE:

#### S/Shri

1	1.	Z.Hasan, Secretary, Ministry of Water Resources, New Delhi	In the Chair
2	(2.)	B.N.Navalawala, Adviser (I&CAD), Planning commission, New Delhi	Member
3	(3.)	Amar Prasad, Additional Commissioner (Representing, Secretary,	Member
		Department of Agriculture and Cooperation), New Delhi	8
4	4)	Dr. S.P.Sinha Ray, Member (SM & L), CGWB (Representing	Member
	94	Chairman, CGWB), New Delhi	
5	(5)	Dr.D.K.Paul, Principal Scientist (Representing Director General of (ICAR),	Member
		New Delhi	
	6.	B.K. Aggarwal, Chief Engineer (HAD), CEA (Representing Chairman,	Member
	_	CEA), New Delhi	
6	(7.)	Jatinder Kumar, US (B&T) (Representing Financial Adviser, MOWR), New	Member
		Delhi	
	8.	R.N.P. Singh, Chief Engineer (PAO), CWC, New Delhi	Member Secretary

#### Special Invitees:

## Central Water Commission

- 1. R. S.Prasad, Member (WP&P), CWC.
- 2) S.C.Sud, Chief Engineer (IB), CWC.
  - 3. S.K. Agrawal, Chief Engineer (PPO), CWC.
  - 4. S.B. Srivastava, Chief Engineer (FM), CWC.
- 8 5. A.Mahendran, Direcator (Appraisal), CWC, CGO Complex, 'C' Block, 3<sup>rd</sup> floor, Semanary Hills, Nagpur.
  - 6. S.K.Banerjee, Director CA(I), CWC.
  - 7. B.G.Kaushik, Director (PP-C), CWC.
- 7 (8.) D.S.Khangura, Director, CWC, 6th floor, CGO, (Kendriya Sadan), Sector-9, Chandigarh.
  - 9. M.K. Sinha Director (PA-N), CWC.
  - 10. Sanjiv Aggarwal, Director (FM-I), CWC.

#### **Planning Commission**

1. K.K.Narang, Direcator (I&CAD), New Delhi.

## Ministry Of Water Resources

1. J.L.Chugh, US (PR), New Delhi.

#### **Central Electricity Authority**

1. R.K grover, Director, New Delhi.

### State Government Officers:

### Bihar

1. P.N. Sinha, Chief Engineer, WRD, Deogarh.

### <u>Delhi</u>

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- 1. S.K.Chhabra, Engineer-in-Chief (W), Delhi Jal Board.
  - 2. L.N.Kapoor, Chief Engineer (W), Delhi Jal Board.

#### Himahcal Pradesh:

- 1. O.C.Kaushal, Member (Civil), HPSEB, Vidyut Bhawan, Shimla.
- 2. H.C. Thakur, Member (Technical) HPSEB, Vidyuit Bhawan, Shimla.
- S.R.Khitta, ChiefEngineer, Investigation & Planning, HPSEB, BBMB Colony, Sundernagar, Distt. Mandi, H.P.
  - 4. V.P.Arora, Ex. Engineer, HPSEB, BBMB Colony, Sundernagar, H.P.-174402.

#### Manipur

1) D.K.Singh, Adviser (IFC&WSM), NEC Sectt. Shilong-793001.

### Maharashtra:

- 1. A.A. Jaualekar, Chief Engineer, Irrigation Deptt., Amaravati, Maharashtra.
- 2. B.K.Zote, S.E., BIPC, Butdona, Maharashtra.
  - 3. H.A.Dhangore, Ex. Engineer, Mon. Project Division, Khomgoon, Distt. Buldana, Maharashtra.

#### Orissa:

- 1 B.B.Mishra, Engineer-in-Chief, EIC (P&D), DOWR, BBSR, Orissa.
- 2. K.C.Panda, L.O., Department of Water Resources, Govt. of Orissa, New Delhi.

#### Punjab

- 1. R.S.Goyal, Chief Engineer, Kanid Area Canal, Chandigarh.
- 7 2. R.C.Jindal, S.E., Kandi Canal, Hoshiarpur.
  - 3. Avtar Singh, DHD, Kandi Canal Project, Chandigarh.
  - 4. S.S. Yassan, Ex. Engineer, Chandigarh.

#### Rajasthan

- 1. O.P.Saxena, Chief Engineer Irrigation, (HQ), Jaipur.
- 2 L.K.Nuwal, Addl. Chief Engineer, Irrigation Kota, Rajasthan.
- 3. K.K.Sharma, SE, Irrigation, Hanuman Garh, Rajasthan.
  - 4. HarbansSingh, Executive Engineer, GFC Division, Suratgarh, Rajasthan.

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# SOLIG 27 99-PACK) 2-40 - 83 GOVERNMENT OF INDEA CENTRAL AVAILER COMMISSION PROJECT APPRAISAL (NORTH) DIPECTORATE

407, SEWA BHANDAN RK PURANA NEW DELIH-110 066 FAX-6103561

Dated: 7 February 2000

Subject: 72<sup>nd</sup> meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 18/1/2000.

Summary record of discussions of the above meeting held at New Delhie 18<sup>th</sup> January 2000 is enclosed for information and necessary action please.

Encl.: As stated above.

(R.N.P.SINGII)
CE (PAO) &
Member Secretary Advisory Committee

#### Copy to:

# MEMBERS OF COMMITTEE:

- 1. Chairman, CWC, Sewa Bhawan, R.K.Puram, New Delhi.
- 2. Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.
- 3. Secretary, Ministry of Power, S.S. Bhawan, New Delhi.
- 4. Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Dollar
- 5. Secretary, Ministry of Social Justice and Empowerment, R. No. 604, A-Wing, Shastri Bhawani New Delhi.
- 6. Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
- 7. Director General, ICAR, Krishi Bhawan, New Delhi.
- 8. Chairman, CEA, Sewa Bhawan, R.K.Purani, New Delhi.
- Chairman, Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi-110011.
- 10. Adviser (I&CAD), Planning Commission, Yojana Bhawan, New Delhi.
- 11 Adviser (Energy), Planning Commission, Yojana Bhawan, New Delhi
- 12 Financial Adviser, Ministry of Water Resources, S.S.Phawan, New Delhi.

# Special Invitees:

- 1. Member (WP&P), CWC, New Delhi.
- 2. Commissioner (Projects). Ministry of Water Resources. New Delhi.
- 3. Commissioner (Indus), Ministry of Water Resources, CGO Complex, Lodi Road, New Delhi.
- 4. Member (Technical), H.P.S.E.B., Shimla-171 004.
- 5. Chief Engineer (Indus)/Director (Mon.), CWC, Block-4, 6th Floor, Kendriya Sadan, Sector Chandigarh 160017.
- 6. Chief Engineer, Krishna Godavari Basin/Director (Mon. & App.), CWC, H.No. 5/9/201/B&B1. Chirag Ali Lane, Hyderabad, A.P.
- 7. Chief Engineer (FMO), CWC, New Delhi.
- 8. Chief Engineer (IMO), CWC, New Delhi.
- 9. Chief Engineer (PMO), CWC, New Delhi.
- 10. Engineer-in-chief, Department of Irr. & Pub. Health, Govt. of H.P. U.S. Club, Shimla-171002.
- 11. Engineer-in-Chief (Water), DJB, Govt. of NCT of Delhi, Ph-II, Room No. 112, Karol Bagh, New Delhi-110 005.
- 12. Engineer-in-Chief, Irrigation Department, Govt. of Andhra Pradesh, Hyderabad, A.P.
- 13. Shri K. Chaudhary, Chief Engineer (P&D), Brahmaputra Board, Basistha, Guahati 781 02°. Assam.
- 14. Shri S.K.Gupta, Chief Engineer (North), Irrigation and Public Health Department, Govt. of H.P... Dharmshala, H.P.
- 15. Chief Engineer (Canals), Irrigation Works, Govt. of Punjab, Chandigarh.
- 16. Chief Engineer, Water Resources Department (Irrigation), Govt. of Bihar, Dehri-on-Sone. District-Rohtas, Bihar.
- 17. Shri S.K. Verma, Chief Engineer, Water Resources Department (Irrigation), Govt. of Palax.

  Bhagalpur, Bihar.
- 18. Chief Engineer, Water Resources Department (Irrigation), Govt. of Bihar, Darbhanga, Bihar.
- 19. Chief Engineer (Gangá), Ganga Bhawan, Victoria Park, Saket, Meerut-250 001, U.P. Fax No. (0121) 645192.
- 20. Chief Engineer (Yamuna), Irrigation Department, Yamuna Colony, Dehradoon, U.P., Fax No. (0135) 628219/629335).
- 21. Superintending Engineer, Saryu Nahar Pariyojana, Irrigation Construction Circle, Bahraich, U.S.
- 22. Chief Executive Officer, Delhi Jal Board, Govt. of NCT of Delhi, Ph-II, Room No. 109. Forom Bagh, New Delhi-110 005.
- 23. Director, Project Appraisal (North), CWC, New Delhi.
- 24. Director, Project Appraisal (Central), CWC, New Delhi.
- 25. Director, Project Appraisal (South), CWC, New Deihi.
- 26. Director, Cost Appraisal (Irrigation), CWC, New Delhi.
- 27. Director (FM-1), CWC, New Delhi.

#### Copy for information to:

- 1. Commissioner and Secretary, Water Resources Deptt.. Govt. of Bihar, Sinchai Bhawan, Patna-800015.
- 2. Sh Brikramjit Singh, Principal Secretary, Deptt. of Irrigation, Chandigarh-160 017, Fax No. (0172) 742911.
- 3. Secretary, Irrigation. Govt. of U.P., Lucknow.
- 4. Secretary (ICAD), Govt. of Andhra Pradesh, Hyderabad.
- 5. PPS to Secretary, Ministry of Water Resources, New Delhi.

# Summary Record of discussions of the 72<sup>nd</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 18/01/2000.

The 72<sup>nd</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpese Projects was held on 18.01.2000 at 1500 Hrs. in the Committee Room of Ministry of Labour. S.S.Bhawan, Rafi Marg, New Delhi, under the Chairmanship of Secretary, Ministry of Water Resources. A list of participants is enclosed at Annexure - I.

Chairman of the Advisory Committee welcomed all the participants and thereafter discussions on the following projects were taken up as per the agenda.

# 1. SARYU NAHAR PARIYOJANA (REVISED-MAJOR) – UTTAR PRADESH

Estimated Cost : Rs. 2765.16 Cr. (SOR - 1998)

CCA : 12 Lakh ha. Annual Irrigation : 14.04Lakh ha.

Chief Engineer (PAO) briefly explained the project proposal and put up the same for the consideration of the Advisory Committee. Representative from Ministry of Environment and Forest requested the State Government representative to submit requisite information regarding impact of Nishangarh Wild Life Sanctuary to the Chief Wild Life Warden of Uttar Pradesh. The representative of Uttar Pradesh agreed to submit the requisite information within two months. Adviser (I&CAD), Planning Commission, pointed out that the details of funding pattern indicated in the TAC Note are not normally kept same in the Annual Plan Document. States should take care of this fact while preparing Annual Plan Document. Further he was of the view that expenditure on the project should not be incurred till the clearance from Ministre of Environment and Forests and concurrence of State Finance Department. Secretary (WR) pointed out that this is an approved project by the Planning Commission and the proposal being considered by the Advisory Committee is the revised estimate of the project, it would not be appropriate to stop incurring expenditure on the project which will result in stopping all works. However, the State should see that expenditure is incurred on only approved components of the project and not on unapproved components of the project till the revised estimate is cleared by the Planning Commission. After some discussions, the project was found acceptable subject to -

- (i) concurrence of State Finance Department:
- (ii) environmental and forest clearance from Ministry of Environment and Forest

The above clearance may be obtained within a period of six months and till such fine expenditure on approved component of the project should only be incurred by the State Government.

(Action: MOEF/State Government)

# 2. <u>EASTERN YAMUNA LINK CHANNEL (HATHNKUND) - U.P.</u> (NEW-MAJOR)

Estimated Cost : Rs. 22.44 Cr. (SOR 1998)

CCA: Supplementation to the existing system

EYC - 3,09698

H.K.Doab - 31,420

Annual Irrigation • : -do-.

Chief Engineer (PAO) briefly explained the project proposal and pointed out that this project has been proposed by the Government of Uttar Pradesh as the replacement work for Tajewala Headworks so that irrigation benefits from Eastern Yamuna Canal project can be continuously drawn after Tajewala Head-work is abandoned. In view of this fact, the committee decided to accept project subject to following:

- (i) Concurrence from State Finance Department;
- (ii) Certificate from State Forest Department regarding non-involvement of forest land.

(Action: State Government)

# 3. <u>KISHAU DAM PROJECT (MULTIPURPOSE – NEW) – U.P.</u>

Estimated Cost : Rs. 3566.23 Cr. (SOR 1998)

CCA : Not applicable.

Power : 600 MW

Discussions on the project started after a brief description of the project proposal by CE (PAO). Chairman, CWC pointed out that the issue of sharing of cost of the project among the basin States should be left to Upper Yamuna Board. Secretary (MOWR) desired to know the problem being faced by the State Government in obtaining environmental and forest clearance from Ministry of Environment and Forest. Representative of Uttar Pradesh Government

pointed out that EIA report is required to be prepared in consultation with Government Himachal Pradesh. Since the details of EIA Report for Himachal Pradesh portion are vet to be received from Government of Himachal Pradesh, they are not in a position to sub-red the proposal for environmental clearance to Ministry of Environment and Forest. Representative of Himachal Pradesh Government informed that they had not received the project report and TAC note of the above project. Advisor (I&CAD), Planning Commission emphasized the need for circulation of inter-state project to the concerned co-basin states along with TAC near Representative of Mistry of Environment and Forest indicated that the project authorities should apply for site clearance of the project and submit EIA report for environmental clearance. Central Electricity Authority officials pointed out that their observations should also be complied before consideration of the project by the Advisory Committee. They told that working table approved by the Hydrology Directorate should be sent to them for carrying out power studies. It was felt that the project is technically feasible, but economic viability of the project is required to be established after apportionment of project cost among irrigation, power and water supply components. After some discussion it was decided that consideration of the project should be deferred and following actions may be taken:

- (i) Copy of DPR and TAC Notes should be sent to concerned Co-basin States for their views.
- (ii) Economic viability of the project should be established after doing apportionment of the cost among irrigation, power and water supply component.
- (iii) Area proposed to be irrigated by the project should be identified by the State Government and details along with cropping pattern, B.C.Ratio Calculation by considering total cost and total benefits should be furnished to CWC.
- (iv) Comments of CEA may be complied.
- (v) Parallel action for forest clearance and environment clearance should be taken by the State Government of U.P. in cooperation with Government of H.P.

### 4. REMODELLING OF CHANNEL OF UBDC SYSTEM - PUNJAB.

Estimated Cost • : Rs. +77:89 Cr.

CC4 : 543-8.43 Lakh ha.

Annual Irrigation : 4.72 Lakh ha. (Addl. Irrigation 1.2 Lakh ha.)

After brief introduction of the project proposal by the Chief Engineer (PAO), CWC discussion on the project started. Secretary (WR) desired to know the latest status of the project. Representative from Government of Punjab intimated that project is likely to be completed in span of four years. It was also clarified by him that no new area would be brought under irrigation in this project but only intensity of irrigation to the existing area would be increased from 65% to 87%. Adviser, Planning Commission desired to know regarding clearance of inter-state aspects of the project. Commissioner (Indus), MOWR pointed out that water utilisation of this project had been kept within the allocated share of Punjab as per 1981 agreement. Chief Engineer, CWC, Chandigarh further clarified that written assurance for restricting utilisation as per allocation of 1981 agreement had been given by the Government of Punjab for this project. After some discussion, the project was accepted by the Advisory Committee, subject to following conditions:

- (i) Environmental & Forest clearance from Ministry of Environment and Forests.
- (ii) Concurrence of the State Finance Department for Rs. 177/80 Crores.
- (iii) Ensure consumptive use of surface water and ground water.
- (iv) Review the cropping pattern periodically and to take appropriate measures for gradual introduction of green manures/oilseeds in the cropping pattern.
- (v) Regular monitoring of GWLs in the command area in post project conditions, specially in saline/water-logged areas and review the conjunctive use planning and drainage arrangements made accordingly after every 5 years or so.

# 5. YERRAVAGU MEDIUM IRRIGATION PROJECT – ANDHRA PRADESH (NEW – MEDIUM).

Estimated Cost :

Rs.31.28 Cr. (SOR 1997-98)

CCA

4453 ha.

Annual Irrigation

4453 Ita.

Chief Engineer, CWC, Hyderabad explained the project proposal and pointed out that clearance of R&R Plan is required to be obtained for this project from Ministry of Social Justice and Empowerment as 196 tribal families are likely to be affected by this project. On a query from Secretary (WR), representative of State Government clarified that the required information would be submitted to the Ministry of Social Justice and Empowerment within a period of three months. Finally, the project was accepted by the Advisory Committee subject to following conditions:

- (i) Review of design flood at the time of construction;
- (ii) Clearance of R&R Plan from Ministry of Social Justice and Empowerment; and
- (iii) Provision of adequate fund.

(Action: State Government)

# 6. SURAM PALEM RESERVOIR SCHEME – ANDHRA PRADESH (NEW-MEDIUM)

Estimated Cost

Rs. 46.70 Cr. (SOR 1998-99)

CCA

4880 ha.

Annual Irrigation

6205 ha.

After brief discussion on the project, the project was accepted by the Advisory Committee subject to following conditions:

- (i) Review of design flood at the time of construction;
- (ii) Clearance of R&R Plan from Ministry of Social Justice and Empowerment; and
- (iii) Provision of adequate fund.

# 7. DURGAWATI RESERVOIR PROJECT - BIHAR (MAJOR)

Estimated Cost

Rs. 234.41 Cr. (SOR 1998)

CCA

29,704 ha.

Annual Irrigation

36,421 ha.

Chief Engineer (PAO) explained the project proposal. Secretary (WR) desired to know from State Government official as to how much additional time will be required for completion of such an old scheme. Chief Engineer, Government of Biliar, intimated that the project is targetted to be completed by the year 2002. However, attempt would be made to expedite the completion of the project. After some discussion the project was accepted by the Advisory Committee subject to following conditions:

- (i) Environment and forest clearance from Ministry of Environment and Forest;
- (ii) Concurrence of State Finance Department for updated cost of Rs. 234.41 crore.

It was also decided that the above clearance should be obtained within a period of three months.

(Action: State Government)

# 8. <u>WESTERN KOSI CANAL PROJECT (INDIA PORTION) – BIHAR</u> (REVISED- MAJOR)

Estimated Cost

Rs. 884. 60 Cr. (1998)

CCA

2.033 Lakh ha.

Annual Irrigation

2.33 Lakh ha.

After brief description of the project proposal by CE (PAO), the Project was considered by the Advisory Committee and found acceptable subject to following conditions:

- (i) Environmental clearance from Ministry of Environment and Forest; and
- (ii) Concurrence of State Finance Department.

Sceretary (WR), however, emphasized that execution of the project should be completed within 9<sup>th</sup> Five Year Plan.

# 9. <u>BATESHWARSTHAN GANGA PUMP CANAL PHASE-I – BIHAR</u> (REVISED - MAJOR)

Estimated Cost : Rs. 212.00 Cr. (1988)

 CCA
 : 22,658

 Annual Irrigation
 : 27,603.

Chief Engineer (PAO), CWC explained the project proposal. Secretary (WR) desired to know the main bottleneck in the implementation of the project. State Government officials intimated that the main hurdle was construction of a bridge by the Railway which may take about a year and provision of inadequate fund in the 9<sup>th</sup> Plan. Adviser, Planning Commission emphasized the need to expedite the construction and complete the project by the end of 9<sup>th</sup> Plan. Finally, the project was accepted by the Advisory Committee subject to the following conditions:

- (i) Environmental clearance from Ministry of Environment and Forest;
- (ii) Concurrence of State Finance Department for update cost of Rs. 212 Crores;
- (iii) Provision of adequate fund in the 9th Plan.

(Action: State Government)

# 10. SWAN RIVER FLOOD MANAGEMENT & INTEGRATED DEVELOPMENT PHASE-I – HIMACHAL PRADESH (FLOOD CONTROL)

Estimated Cost : Rs. 102.72 Cr. (May 1999)

CCA : N.A.
Annual Irrigation : N.A.

After brief description of the project proposal by the Chief Engineer (PAO), CWC, discussion on the project started. Commissioner (Project), MOWR, enquired from the State Officials as to whether this project would be able to sustain the high velocity of the river water. Representative of State Government clarified that model studies for the project had been got carried at CWRPS, Pune and it has been found that protection work would be able to sustain flowing water of Swan River with high velocity. On a query from Secretary (WR), it was clarified by Director (FM), CWC, that this aspect had been looked into while examining the project. Finally the project was accepted by the Advisory Committee subject to –

- (i) clearance from Ministry of Environment and Forest
- (ii) concurrence of State Finance Department.

# 11. PAGLADIYA DAM PROJECT (SUPPLEMENTARY NOTE) - ASSAM (MULTIPURPOSE

Estimated Cost

Rs. 540.99 Cr. (1999)

CC.1

40743

Annual Irrigation/Power

54160 HAV3MW

Chief Engineer (PAO) informed that this project had been accepted by the Advisory Committee in its meeting held on 25.8.95 subject to environmental clearance from Ministry of Environment and Forest, which was subsequently accorded in 8/96. When the case for investment clearance was sent to the Planning Commission, some observations were raised and the same were also complied by MOWR vide their letter dated 7.3.97. In the meanuruse Brahamputra Board submitted an updated estimate to CWC in June 1999, which is put up for consideration by the Advisory Committee. After brief discussion, the project was accepted by the Advisory Committee for Rs. 540.99 Crore at 1999 price level.

(Action: Brahamputra Board )

# 12. RENUKA DAM PROJECT (SUPPLEMENTARY NOTE) – HIMACHAL PRADESH (NEW MAJOR)

Estimated Cost

: Rs. 46. 70 Cr. (1998-99)

CCA

4880 ha.

Annual Irrigation

6205 ha.

After brief description of the project proposal by the Chief Engineer (PAO), the discussion on the project started. Representative of Himachai Pradesh State Electricity Board expressed unwillingness to share the cost of power component as worked out jointly by CWC and CEA. While referring to Para No. 5(v) of the Inter-state Agreement on Renuka Dam signed by Basin States in November 1994, he pointed out that Himachai Pradesh Government is supposed to make payment of minimum appurtenant civil works in the dam for power component. On the other hand, representative of Government of NCT of Delhi agreed to share the cost of the project as suggested by CWC and CEA in the light of the decision taken in the meeting taken by Member (WP&P), CWC on 23.12.1999. Chairman, CWC pointed out that as per the same Inter-state Agreement, the cost of power component is to be decided by CWC. He also told that any standard method applicable for apportionment of cost of multipurpose project can be applied for Renuka Dam project. Member (WP&P) expressed the background in which its new cost allocation has been finalized. He told that earlier CWC has worked out the cost of

power component as Rs. 202 Crores on which Himachal Pradesh State Electricity Board had not agreed. CEA was also of the view that the cost allocated to power component was slightly on higher side. So, it was agreed by both States of Dethi & Himachal Pradesh in the meeting of 23.12.99 taken by Member (WP&P), CWC that the cost jointly worked out by CWC and CEA would be acceptable to them. In view of this, the cost allocation was reviewed and jointly worked out by CWC & CEA. However, representative of Government of Himachal Pradesh expressed their disagreement with the revised cost allocation in the TAC meeting. Representative of Ministry of Environment and Forest pointed out that an area of 49 ha, of wild life sanctuary is likely to be submerged under Renuka Dam Project. As such, the project cannot be taken up for execution without de-notifying the area of wild life sanctuary. After discussion, the project was considered and found acceptable from techno-economic angle subject to following conditions:

- (i) Governments of Delhi and Himachal Pradesh would decide the sharing of cost bilaterally;
- (ii) Environmental and Forests clearance should be obtained from Ministry of Environment and Forest. Necessary action for de-notification of the wild life sanctuary area should also be taken as per the requirement of the Environmental Protection Act;
- (iii) Clearance of R&R Plan for tribal population from Ministry of Social Justice and Empowerment.

(Action: State Government)

The meeting ended with vote of thanks to the Chair.

0.0

# Annexure - 1

# LIST OF PARTICIPANTS

# MEMBERS OF COMMITTEE:

### S/Shri

1.	Z.Hasan, Secretary, Ministry of Water Resources, New Delhi	In the Bear
2.	A.D.Mohile, Chairman, CWC, New Delhi	Manda
	B.N.Navalawala, Adviser (I&CAD), Planning commission, New Delhi	Mander
4.	Amar Prasad, Additional Commissioner (Representing, Secretary,	Mambar
	Department of Agriculture and Cooperation), New Delhi	
5.	A.D.Joseph, Scientist 'D', CGWB (Representing Chairman, CGWB),	Member
	Fardiabad.	
,6.	Dr.D.K.Paul, Principal Scientist (Representing Director General of (ICAR),	Member
	New Delhi	61 62 162 174
7.	B.K.Aggarwal, Chief Engineer (HAD), CEA (Representing Chairman,	S. C. M. S.
	CEA), New Delhi	
8.	Jatinder Kumar, US (B&T) (Representing Financial Adviser, MOWR), New	Menter
	Delhi	and the second or straight of the
9.	R.Anand Kumar, Director, (Rep. Secretary, Ministry of Environment and	Monte
	Forest), New Delhi.	1838221, 21
10.	R.N.P. Singh, Chief Engineer (PAO), CWC, New Delhi	Member Societary

# Special Invitees:

# Central Water Commission

- 1. R. S.Prasad, Member (WP&P), CWC.
- 2. S.C.Sud, Chief Engineer (IB), CWC, Chandigarh.
- 3. A.Sekhar, Chief Engineer, CWC, Hyderabad.
- 4. A.B.Pal, Chief Engineer (PMO), CWC.
- 5. Jhujhar Singh, Director (PA-C), CWC.
- 6. D.S.Khangura, Director, CWC, 6th floor, CGO, (Kendriya Sadan), Sector-9, Chandigarh,
- 7. M.K.Sinha Director (PA-N), CWC.
- 8. S.K.Banerjee, Director CA (I), CWC.
- 9. S.T.Hasnain, Directtor (CA-I), CWC.
- 10. Sanjiv Aggarwal, Director (FM-I), CWC.

#### Planning Commission

1. K.K.Narang, Direcator (I&CAD), New Delhi.

#### Ministry Of Water Resources

- 1. P.C.Mathur, Commissioner (P)
- 2. A.C.Gupta, Commissioner (Indus), CGO Complex, Lodi Raod, New Delhi.

### Ministry of Environment and Forest

1. Dr. S.Bhuwmik, Additional Director.

### Central Electricity Authority

1. R.K.Grover, Director, New Delhi.

# **State Government Officers:**

## Andhra Pradesh

1. K.Nagendrappa, Chief Engineer, Irrigation and CAD Department, Govt. of Andhra Pradesh, Hyderabad.

# Assam

1. K.Chaudhary, Chief Engineer (P&D), Brahmputra Board, Guwahati-781029.

#### Biliar

- 1. R.R.Prasad, Chief Engineer, PP Cell, Water Resources Department, Anisabad, Patria Bihar.
- 2. Ganesh Lal, Superintending Engineer, Western Kosi Canal Circle, Darbhanga, Bihar.
- 3. Maya Shankar Prasad, Secretary (Tech.) to Chief Engineer, Office of the Chief Engineer. Water Resources Department, Bhagalpur, Bihar.

### Delhi

- 1. L.N.Kapoor, Chief Engineer (W), Delhi Jal Board.
- 2. N.R.Jaswani, Deputy Director, Delhi Jal Board.

#### Himaheal Pradesh:

- 1. O.C.Kaushal, Member (Civil), HPSEB, Vidyut Bhawan, Shimla.
- 2. H.C. Thakur, Member (Technical) HPSEB, Vidyuit Bhawan, Shimla.
- 3. V.P.Arora, Additional Superintending Engineer, HPSEB, BBMB Colony, Sundernagar, H.P.-174402.
- 4. S.K.Gupta, Chief Engineer (Irrigation), Jal Bhawan, Dharmshala, H.P.
- 5. S.K.Chendel, Superintending Engineer, I&PH Circle, Una, H.P.

#### Punjab

1. R.P.S. Yaduwanshi, S.E., UBDC Canal, Amritsar.

#### Uttar Pradesh

- 1. Y.P.Singh, Chief Engineer (Ganga), Victoria Park, Meerut.
- 2. V.P.Gupta, Chief Engineer (East), Office of the Engineer-in-Chief, Irrigation Department, Cantt. Road, Lucknow.
- 3. Shri Pal, Superintending Engineer, IWC, Saharanpur.

# No. 16/27/99-PA (N)/314-31 Dated: 17th February, 2000. GOVERNMENT OF INDIA CENTRAL WATER COMMISSION PROJECT APPRAISAL (NORTH) DIRECTORATE

407, SEWA BHAVAN, RK PURAM, NEW DELHI-110 006. FAX-6103561

Director, PA (N)

Subject: Corrigendum to minutes of 72<sup>nd</sup> meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 18/1/2000.

#### CORRIGENDUM

Reference is invited to this office letter no. 16/27/99-PA (N)/240-83 dt. 7.2.2000 under which the summary record of discussions of 72<sup>nd</sup> Meeting of the Advisory Committee held on 18.2.2000 was circulated among all concerned. In this connection it is mentioned that some typographical error has been committed in respect of projects at Sl.No.4 and Sl.No.12. It is, therefore, requested that following corrections may kindly be noted for reference and record:

	Read as	In Place of
Sl.No. 4 - Remodelling of Channel of UBDC - Punjab		
- Estimated Cost	Rs.177.80 Cr.	Rs. 177.89 Cr.
- CCA	5.43 lakh ha.	8.43 lakh ha.
SI.No.12 - Remika Dam Project - Himachal Pradesh	s da la lagra	
- Estimated Cost	Rs.1224.64Cr.	Rs. 46.70 Cr.
-CCA	Nil .	4.880 ha.
- Annual Irrigation	Nil	62.05 ha.
	(Power Genera-	
	tion 40 MW)	and the same
	(M.	K. Sinha)

#### Copy to:

- 1. Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.
- 2. Secretary, Ministry of Power, S.S. Bhawan, New Delhi.
- 3. Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
- 4. Secretary, Ministry of Social Justice and Empowerment, R. No. 604, A-Wing, Shastri Bhawan, New Delhi.
- 5. Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
- 6. Director General, ICAR, Krishi Bhawan, New Delhi.
- 7. Chairman, CEA, Sewa Bhawan, R.K.Puram, New Delhi.
- 8. Chairman, Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi-110011.
- 9. Adviser (I&CAD), Planning Commission, Yojana Bhawan, New Delhi.
- 10. Adviser (Energy), Planning Commission, Yojana Bhawan, New Delhi.
- 11. Commissioner (Indus), Ministry of Water Resources, CGO Complex, Lodi Road, New Delhi.
- 12. Member (Technical), H.P.S.E.B., Shimla-171 004.
- 13. Chief Engineer (Indus) Director (Mon.), CWC, Block-1, 6th Floor, Kendriya Sadan, Sector-9, Chandigado 160017.
- 14. Engineer-in-chief, Department of Irr. & Pub. Health, Govt. of H.P. U.S. Club, Shimla-171002.
- 15. Engineer-in of (Water), DJB, Govt. of NCT of Delhi, Ph-II, Room No. 112, Karol Bagh, New Delhi-110 005
- 16. Chief Executive Officer, Delhi Jal Board, Govt. of NCT of Delhi, Ph-II, Room No. 109, Karol Bogh. New Delhi 110 005.
- 17. Chief Engineer (Canals), Irrigation Works, Govt. of Punjab, Chandigarh.
- 18. Sr. Joint Commissioner (Projects), Ministry of Water Resources, New Delhi.

No. 16/27/99-PA (N)/557-74 Dated: 23 March, 2000.

Government of India
Central Water Commission
Project Appraisal (North) Directorate

407, Sewa Bhawan, R.K. Puram, New Delhi-110 000

FAX-6103561

Subject: Corrigendum to minutes of 72<sup>nd</sup> meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 18/1/2000.

# CORRIGENDUM

In continuation to this office letter of even no. 240-83 dated 7.2.2000 and no. 314-31 dated 17.2.2000 regarding the summary record of discussions of 72<sup>nd</sup> Meeting of the Advisory Committee held on 18.1.2000. It is mentioned that Ministry of Environment & Forests has suggested certain modification in respect of Project at Sl.No.12 (Renuka Dam Project – Himachal Pradesh) under Point (ii). It is, therefore, requested that following corrections may kindly be noted for reference and record:

10					
	READ AS	IN PLACE OF			
	Necessary action for de-notification of the Wild Life	Necessary action for de-notification of the Wildlife			
	Sanctuary area should also betaken as per the	Sanctuary area should also betaken as per the			
	requirement of the Wildlife (Protection) Act, 1972.	requirement of the Environmental (Protection) Act.			

(M.K. Sinha) Director (PA-N)

#### Copy to:

- 1. Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.
- -2. Secretary, Ministry of Power, S.S. Bhawan, New Delhi.
- ∠3. Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
- Secretary, Ministry of Social Justice and Empowerment, R. No. 604, A-Wing, Shastri Bhawan, New Delhi.
- 5. Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
- 6. Director General, ICAR, Krishi Bhawan, New Delhi.
- 7. Chairman, CEA, Sewa Bhawan, R.K.Puram, New Delhi.
- Chairman, Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi-110011.
- 9. Adviser (I&CAD), Planning Commission, Yojana Bhawan, New Delhi.
- 10. Adviser (Energy), Planning Commission, Yojana Bhawan, New Delhi.
- 11. Commissioner (Indus), Ministry of Water Resources, CGO Complex, Lodi Road, New Delhi.
  - 12. Member (Tecluical), H.P.S.E.B., Shimla-171 004.
  - 13. Chief Engineer (Indus)/Director (Mon.), CWC, Block-4, 6th Floor, Kendriya Sadan, Sector-9, Chandigath 160017.
  - Engineer-in-chief, Department of Irr. & Pub. Health, Govt. of H.P. U.S. Club, Shimla-171002
  - 15. Engineer-in-Chief (Water), DJB, Govt. of NCT of Delhi, Ph-II, Room No. 112, Karol Bagh, New Delhi-110 00
  - Chief Executive Officer, Delhi Jal Board, Govt. of NCT of Delhi, Ph-II, Room No. 109, Karol Bagh, New Delhi-110 005.
  - -17. Sr. Joint Commissioner (Projects), Ministry of Water Resources, New Delhi.
  - Dr. S.Bhowmik, Additional Director, Ministry of Environment and Forest, Paryavaran Bhawan, CGO Complex, Lodhi/Road, New Delhi-110 003 - With reference to his letter no. J-15012/14/99-IA-1 dated 3 3,2000.

S.O. RAI Seekin

M. 16/2> 1200 - AA(N)/1006-048

Summary Record of discussions of the 73<sup>rd</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 31/05/2000.

The 73<sup>rd</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects was held on 31.05.2000 at 1100 Hrs. in the Committee Room of Ministry of Labour, S.S.Bhawan, Rafi Marg, New Delhi, under the Chairmanship of Secretary, Ministry of Water Resources. A list of participants is enclosed at Annexure - I.

Chairman of the Committee welcomed all the participants and intimated that there are ten projects, three from Andhra Pradesh, three from Orissa and one each from Bihar, Rajasthan, Uttar Pradesh and Karnataka to be considered in this meeting. Thereafter, he requested CE (PAO), the Member Secretary to take up the Agenda items and briefly introduce the projects one by one for information and discussions by the members of the Committee and clarifications, if any, by the special invitees.

Following Projects were taken up as per the Agenda. The discussions held and decisions taken by the Committee are summarised below:

# VAMSADHARA PHASE-I OF STAGE-II (A.P.)

Estimated Cost : Rs. 123.936 Cr. (1999 -2000 SOR)

CCA : 33,298 ha.
Annual Irrigation : 25,203 ha.

Chief Engineer (PAO) briefly described the project proposal with its techno-economic viability and put up the same for consideration by the Committee. On the query about the lift involved and ground water utilisation, it was clarified that the present proposal does not envisage any lift, all irrigation is through gravity canals and the data furnished about ground water utilisation is as per the State Ground Water Department. On this, it was suggested that concurrence/views of Central Ground Water Board may be obtained about the availability and utilisation in the command area. Advisor (Planning Commission) wanted to know whether the certificate from the Forest Department has been obtained regarding non-involvement of forest land. To this, the Project officials assured that - they will obtain the requisite certificate from the State Forest Department. The Secretary, Ministry of Water Resources asked about the clearance by Ministry of

Environment and Forest. It was informed by the Project Authorities that the Environmental Impact Assessment Report has already been submitted. They were advised to pursue the clearance expeditiously. The Project was accepted subject to:

- (i) Environmental clearance from Ministry of Environment and Forest;
- (ii) Concurrence of State Finance Department;
- (iii) Concurrence by Central Ground Water Board.

(Action: MOEF/State Government)

# 2. SUDDAVAGU MEDIUM IRRIGATION PROJECT (A.P.)

Estimated Cost : Rs. 56.18 Cr. (1998-99 SOR)

CCA : 5,666 ha.
Annual Irrigation : 5,666 ha.

After brief introduction of the project proposal and its techno-economic viability by Chief Engineer (PAO), the project was taken up for discussion. It was pointed out that the Government of Maharashtra has raised the issue of submergence in its territory and the backwater studies carried out by APERL along with river cross-sections had been sent to them. Chairman (CWC) stated that from the river cross-section at the border, it reveals that there will be a depth of water of about 2.5 m confined into the gorge at FRL and the backwater will merge with normal water level during floods well within the boundary of Andhra Pradesh. Therefore, there will not be any adverse effect in the territory of Maharashtra. However, representative of Government of Maharashtra requested for joint surveys to assess the extent of submergence and the cost to be borne by Government of Andhra Pradesh. The request of the Government of Maharashtra was acceded to and they were asked to provide all cooperation to ensure completion of joint surveys within six months. After some discussion, the project was accepted subject to:

- (i) Review of design flood at the time of construction;
- (ii) Approval of R&R Plan by Ministry of Tribal Affairs;
- (iii) Provision of adequate funds; and
- (iv) Completion of joint surveys within six months.

(Action: Ministry of Tribal Affairs/State Government)

# 3. PEDDAVAGU MEDIUM IRRIGATION PROJECAT (A.P.)

Estimated Cost : Rs. 202.5977 Cr. (1998-99 SOR)

CCA : 9915 ha.
Annual Irrigation : 10,927 ha.

While explaining the project proposal, the CE (PAO) pointed out that though the cost of irrigation development in this case is more than Rs. 2 lakhs/ha., the B.C. Ratio is 1.95 which is quite favorable. This is so because the main crop proposed in the command area is sugarcane and most of the benefits accrued from it. Secretary, Ministry of Water Resources desired to know the comments of Ministry of Agriculture on the cropping pattern. Representative of Ministry of Agriculture suggested that the use of other crops such as paddy and pulses should have been adopted instead of sugarcane because the latter requires much more water. Representative of Andhra Pradesh pointed out that they want to use surplus Godavari Water, which is other wise going waste. CE, CWC, Hyderabad indicated that cropping pattern has been vetted by State Agriculture Department. Ministry of Agriculture desired to know about the availability of sugar factories in the area to which the State representative clarified that the sugar factory is located at about 40 kms. in Aditabad. The Ministry of Agriculture suggested to cover more area under paddy cultivation. Secretary, Ministry of Water Resources and Chairman, CWC were of the view that extensive irrigation should be promoted instead of intensive irrigation for making proper use of available water resources and its equitable distribution. Secretary, Ministry of Water Resources also desired to know as to why provision of Right Bank Canal has not been made in the project proposal when abundant water is available. Representative of A.P. clarified that due to unfavorable topographical features it is not possible to construct Right Bank Canal for a long distance. However, another project is proposed for meeting the requirement of this area.

Finally, the project was accepted by the Advisory Committee subject to following conditions:

- Approval of R&R Master Plan by the Ministry of Tribal Affairs.
- (ii) Forest clearance as per Forest Conservation Act, 1980. From the Min of Env. D Forest
- (iii) Provision of adequate funds.
- (iv) Review of design flood.
- (v) Review of cropping pattern in order to ensure extensive irrigation rather than intensive irrigation.

## 4. KANUPUR IRRIGATION PROJECT (ORISSA).

Estimated Cost : Rs. 428.32 Cr. (1998 SOR)

CCA : 29578 ha.
Annual Irrigation : 47,709 ha.

The project proposals were briefly explained by CE(PAO). Secretary, Ministry of Water Resources appreciated the efforts of State Engineers for obtaining the environmental and forest clearance from Ministry of Environment and Forest before consideration of the project by the Advisory Committee. After some deliberation, the project was accepted by the Advisory Committee subject to obtaining concurrence of State Finance Department.

(Action: State Government)

# 5. SAMAKOI BARRAGE IRRIGATION PROJECT (ORISSA).

Estimated Cost : Rs. 43.85 Cr. (March 1999 SOR)

CCA : 9990 ha.
Annual Irrigation : 10,906 ha.

After brief description of the project proposal and its techno-economic viability by CE (PAO), discussion on the project commenced. Secretary, Ministry of Water Resources desired to know whether the cost of the project has been updated. Representative of State Government clarified that the cost of the project has been updated at March 1999 price level. The cost of irrigation development of Rs. 40,281.00 per ha. was found to be quite attractive. After some deliberation, the project was accepted subject to following conditions:

- (i) Clearance from Ministry of Environment and Forest, Government of India needs to be obtained for diversion of 44 ha. of forest land.
- (ii) Concurrence of State Finance Department.
- (iii) Monitoring of ground water levels in the post-irrigation stage and necessary ground water utilisation plan may be prepared in consultation with the State Ground Water Department to achieve conjunctive use of ground and surface water thereby avoiding any water logging problem in the command area.

(Action: Ministry of Environment and Forest/State Government)

# UPPER LANTH IRRIGATION PROJECT (ORISSA).

Estimated Cost

Rs. 48.99 Cr. (1999 SOR)

CCA

4700 ha.

Annual Irrigation

6105 ha.

While explaining the project proposal, the CE (PAO) indicated that this medium irrigation project envisaged irrigation benefit to a CCA of 4700 ha. in Bolanage district which forms a part of KBK region. Since the project involves the displacement of 595 families out of which 207 families belong to 207, due care has to be taken for rehabilitation and resettlement of these families. Secretary, Ministry of Water Resources desired to know about R&R package. Representative of Orissa Government clarified that adequate provision for rehabilitation and resettlement of these families has been made in the estimate as per the norms of R&R policy of the State government. Advisor, Planning Commission remarked that the financial return from the project even at the end of 15th year is negative. He was of the view that such situation should not happen as the water rates have been enhanced in Orissa recently. Secretary, Ministry of Water Resources expressed that the economic viability is more relevant in the project was accepted by the Committee subject to:

- (i) Forest clearance from Ministry of Environment and Forest for diversion of 394.40 ha. of forest land.
- (ii) Clearance of R&R Plan from Ministry of Tribal Affairs.
- (iii) Concurrence of State Finance Department.
- (iv) Monitoring of ground water levels in the post-irrigation stage and necessary ground water utilisation plan may be prepared in consultation with the State Ground Water Department at that time if it deems feasible to explore the possibility of conjunctive use of ground and surface water.

(Action: MOEF/MOTA/ State Government)

# 7. TILAIYA DHADHAR DIVERSION PROJECT (BIHAR)

Estimated Cost : Rs. 220.1134 Cr. (1998 SOR)

CCA : 35225 ha. Annual Irrigation : 31700 ha.

Chief Engineer (PAO) briefly described the project proposal including the background of earlier techno-economic appraisal of this project. It was explained that this project had earlier been considered by the Advisory Committee in its meetings held in July 1982 and March 1983. However, the project could not be accepted because of inter-state issues. Thereafter, two interstate meetings were held in July 1992 by MOWR and in December 1997 by Member (WP&P), CWC. In the meeting of December 1997, it was agreed that "the project could be cleared from inter-state angle as per the provisions of the agreement and it was decided that Bihar may submit the modified report with updated cost estimate to CWC early for its techno-economic appraisal". In compliance to this, Bihar submitted the updated project proposal in January 1998, which was appraised and put up for consideration by the Advisory Committee. Representative of CEA indicated that there was also a proposal for power generation with this project. It was clarified that the State Government has submitted the proposal only for irrigation part and the power generation part would be submitted by the State Power Corporation. Advisor, Planning Commission while commenting on the inter-state aspect stated that this aspect is needed to be looked into the framework of the inter-state agreement of 1978. To this, the representatives of the Govt. of Bihar produced the letter by the Secretary (I&W) Deptt. Government of West Bengal, addressed to the Secretary (WRO), Govt. of Bihar wherein it was mentioned that the Govt. of West Bengal has no objection of executing Konar Diversion and Tilaiya Diversion Schemes for irrigation development in Bihar. On the query about the low B.C. Ratio (1.19), it was brought to the notice that the project is intended to provide irrigation facilities and drinking water supplies in the perpetually drought striken area of Nawada and Gaya Districts. Appreciation the urgent need to provide drinking water supplies and irrigation benefits to ameliorate the sufferings of people of such chronically drought affect areas and Govt. of India's Policy to assign top priority to such projects, as well as the Govt. of West Bengal's "no objection" to the execution of the project; Secretary (Ministry of Water Resources) expressed that the project can be accepted. Accordingly, the project was accepted by the Committee subject to:

- (i) Environmental clearance from Ministry of Environment and Forest;
- (ii) Concurrence by the State Finance Department.

relevant clauses to the Project will subject to the fulfillment of of 19 I July 1978 roached between the form west Rengal and

### 8. MODERNISATION OF GANG CANAL SYSTEM (RAJASTHAN)

.

Estimated Cost

: Rs445.79 Cr. (1998 SOR)

CCA

: Old 3.08 lakh ha. and additional 48,192 ha.

Annual Irrigation

Additional 96500 ha.

CE (PAO) explained that this project was basically for replacing the 70 years old and dilapidated lime kinker lining of the existing canal system and saving the excessive seepage losses. The relining of canals will save about 710 cusecs of water which can be utilised for enhancing the intensity of irrigation from existing 60% to 79% and water allowance from existing 2.56 cusecs per thousand acre to 3 cusecs per thousand acres in the existing command of 3.08 lakh ha. and also providing irrigation facilities to additional CCA of 48192 ha. This will also enable to utilise the State's share of 1.44 MAF (1.11 MAF pre partition utilisation + 0.33 MAF allocated to this project from State's share of 8.60 MAF in the surplus Rabi Beas Waters). After some discussion, the project was accepted by the Advisory Committee.

(Action: State Government/CWC)

9. THE PROJECT ESTIMATE FOR CONSTRUCTION OF RIGHT MARGINAL BUND ON RIVER GANGA FROM BHOGPUR IN BALWALI IN DISTT. HARDWAR (UTTAR PRADESH)

Estimated Cost

Rs. 13.89 Cr.

Area Benefitted

7800 ha. from inundation and 220 ha. from erosion.

Chief Engineer (PAO), CWC explained the project proposal. This scheme was intended to provide protection to 7800 ha. of land from year to year inundation and to save 220 ha. from erosion. The benefit cost ratio was quite attractive. After some deliberation, the project was accepted by the Advisory Committee subject to concurrence of State Finance Department.

# UPPER KRISHAN STAGE-II MULTIPURPOSE PROJECT (IRRIGATION PORTION) – (KARNATAKA)

Estimated Cost : Rs. 2849.06 Cr. (1998-1999 SOR) (To be firmed up)

CCA : 197120 ha. Annual Irrigation : 226688 ha.

Chief Engineer (PAO), CWC, explained the project proposal and pointed out that this project is being put up for consideration of the Advisory Committee light of verdict of Hon'ble Supreme Court dated 25.4.2000. The views of Andhra Pradesh and Maharashtra on Upper Krishna Stage-II Project was circulated in the meeting by the representatives of the State Governments. Advisor, Planning Commission wanted to know the views of CWC and Government of Karnataka on the issues raised by the A.P. and Maharashtra. Member (D&R), CWC, informed that necessary suggestions for modifications are being given to the State Government in order to restrict the FRL at 519.60 M. To achieve this, the skin plates in all the gates have to be kept up to 519.60 M. in the central 7.8 M, with suitable protection of end arms and piston rods of hydraulic hoist cylinders by means side shields on either ends. Representative from Govt. of Maharashtra indicated that there will be submergence of large area in the upstream of the reservoir as per PMF finalized by CWC and land acquisition is not being done with respect to that level. Chairman, CWC clarified that land acquisition is done corresponding to FRL and not corresponding to MWL. However, in the present case, he intimated that the MWL under normal condition will be 519.60 M. and only in emergency condition (23 gates under operation) would be 520.6 M. The earlier proposal under consideration was for FRL at 524.256 M., which has now been reduced to 519.60 M. As such at FAL there may not be any submergence in the territory of Maharashtra. Representative from A.P. pointed out that Government of Karnataka had constructed seven projects in the upstream of Almati Dam which were supposed to be different alternative sites for Hipargi project and their utilisation was not accounted for in the over all allocation of water to Karnataka under KWDT. 45 was also pointed out that Govt. of Karnataka has agreed in one of its statement that 52000 acres of sugarcane is being irrigated from these projects. Andhra Pradesh also expressed their apprehension over the construction of over size canal to draw more water than their allocated share. The representative of Maharashtra also pointed out that some of the area in Maharashtra territory is also likely to come under submergence of Almati Dam. For this purpose joint survey is being carried out as per the decision of the Inter-state meeting held in February 1999. While replying to the queries of Maharashtra and A.P., representative of Karnataka requested Members of the Committee to honour the judgement of the Hon'ble Supreme Court. He pointed out that

one barrage project with FRL of 525 Mt. is existing near the Karnataka – Maharashtra border. This project is benefitting both the Maharashtra and Karnataka but no territory of Maharashtra is being submerged due to this project as such the apprehension of Karnataka regarding submergence of Almati Dam over FRL of 519.6 is devoid of substance. Regarding construction of Hipargi Barrage project, it was clarified that the project has been accepted by TAC. Regarding other barrage projects mentioned by A.P., Karnataka representatives told that there is no such barrage in the upstream. Only one barrage has been built by the local farmers and not by the Govt. of Karnataka. This project will come under submergence after construction of Almati Dam. So utilisation of this project is not going to affect the overall utilisation of Krishna Water by Karnataka. Regarding higher canal capacity proposed under this project it was intimated that this provision has been made keeping in view the additional allocation of water by KWDT under scheme 'B'. Secretary, Ministry of Water Resources stated that utilisation under UKP cannot be permitted more than the allocation of 173 TMC. The canal capacities have to be restricted to water requirements as per demand table and 10% extra for rush irrigation. Alterations in the Alterations in the already constructed canals and construction of residual canals would be as per the advice of CWC. As regards the utilisation of upstream barrages, some of them would be under function by GOK. submergence and some of them are included in the list of projects in the KWDT. Lany way Karnataka has to ensure their utilisation by all schemes within their allocated share of waters. Finally the project was accepted by the Advisory Committee subject to following conditions:

- Clearance of forest, environment and R&R plan from the respective Central Ministries.
- (ii) The FRL will be restricted to 519.60 M and there would be no physical capacity to store more water above 519.60 M.
- (iii) The operation of the project would be such that there will not be any submergence in territory of Maharashtra.
- (iv) Canal capacity would be restricted to water requirements as per the demand table and considering 10% extra for rush irrigation and the design FSL should ensure irrigation in the command under Stage-II.
- (v) The utilisation shall not exceed 173 TMC under Stage-I and II of Upper Krishna Project.
- (vi) Finalization of cost estimate of the project with FRL 519.60 M and firming of the other economic parameters of the project.

(Action: State Government/CWC)

The meeting ended with vote of thanks to the Chair.

# Annexure - I

# LIST OF PARTICIPANTS

# MEMBERS OF COMMITTEE:

#### S/Shri

1.	Z. Hasan, Secretary, Ministry of Water Resources, New Delhi	In the Chair
2.	A.D.Mohile, Chairman, CWC, New Delhi	Member
3.	B.N.Navalawala, Adviser (WR), Planning commission, New Delhi	Member
4.	R.K.Srivastava, Assistant Commissioner [Crops] (Representing, Secretary,	Member
	Department of Agriculture and Cooperation), New Delhi	
5.	Aditya Prakash, Deputy Commissioner, CGWB	Member
	(Representing Chairman, CGWB), Fardiabad.	
6.	Dr.D.K.Paul, Principal Scientist (Representing Director General of (ICAR),	Member
	New Delhi	
7.	B.K. Aggarwal, Chief Engineer (HAD), CEA (Representing Chairman,	Member
	CEA), New Delhi	
8.	Jatinder Kumar, Deputy Secretary (B&T) (Representing Financial Adviser,	Member
	MOWR), New Delhi	
9.	Tarun Coomar, Director, (Rep. Secretary, Ministry of Tribal Affairs),	Member
	New Delhi.	
10	R.N.P. Singh, Chief Engineer (PAO), CWC, New Delhi	Member Secretary

#### Special Invitees:

#### **Central Water Commission**

- 1. S.C.Chitkara, Member (WP&P), CWC.
- 2. Dr. B.K.Mittal, Member (D&R), CWC.
- 3. A.Sekhar, Chief Engineer, CWC, Hyderabad.
- 4. S.K. Agrawal, Chief Engineer (PPO), CWC.
- 5. B.B. Vats, Director (Mon.-N), CWC [Representing CE(PMO) CWC].
- 6. S.K.Banerjee, Director (PA-S), CWC.
- 7. S.P.Singh, Director (PP-N&S), CWC.
- 8. B.K.Kaushik, Director (PP-C), CWC.
- 9. P.K.Saha, Director, CWC, Bhubaneshwar.
- 10. R.K.Pachauri, Director (PA-Central) and (PA-North), CWC.
- 11. V.P.Shiv, Director (Hydrology-Central), CWC.
- 12. R.N.Ray, Deputy Director (PA-North), CWC.
- 13. B.B.Haldar, Deputy Director (CA-I), CWC.
- 14. R.C.Malhotra, Deputy Director (PP-N&S), CWC.
- 15. T.D.Sharma, Deputy Director (PA-S), CWC.
- 16. P.P. Abdurahiman, Deputy Director (PA-C), CWC.

# **Ganga Flood Control Commission**

1. G.N.Murty, Chairman, GFCC, Patna.

#### Planning Commission

1. K.K. Narang, Director (WR), New Delhi.

#### Ministry of Water Resources

- 1. P.C.Mathur, Commissioner (Projects).
- 2. S.M.Sood, Sr. Joint Commissioner (Projects).
- 3. M.K. Sinha, Sr. Joint Commissioner (CAD).

#### Ministry of Agriculture

1. C.M.Panday, Deputy Commissioner (Hydrology), Ministry of Agriculture, DAC, 102, B-Wing, Shashtri Bhawan, New Delhi-110 001.

### State Government Officers:

#### Andhra Pradesh

- 1. P.K. Agarwal, Secretary, Govt. of Andhra Pradesh, Hyderabad.
- 2. S.M.N.N.Jinnah, Engineer-in-Chief, Irrigation, Errum Manzil, Hyderabad.
- 3. K.Nagendrappa, Chief Engineer Irrigation, I&CAD Department, Govt. of Andhra Pradesh. Hyderabad.
- 4. Routhu Satyanarayana, Chief Engineer (Medium Irrigation), Errum Manzil, Hyderabad-500 082.
- 5. Y.Lavakusha Reddy, Superintending Engineer, Irrigation Circle, Nirmal, Distt. Adilabad (A.P.)
- 6. N.Gopal Reddy, Superintending Engineer, Office of the Chief Engineer, ISWR, Errum Manzil, Hyderabad (A.P.).
- 7. I.S.N.Raju, Project Administrator, Vamsadhara Project, Srikakulam (PO & Distt.) A.P.

#### Bihar

- 1. Junaid Asghar, Chief Engineer (Monitoring), 2nd floor, Sinchai Bhawan, Patna-800 001.
- 2. Tripurari Sharma, Executive Engineer, Waterways Division, Govt. of Bihar, Fatehpur (Gaya).

#### Karnataka

- 1. S.K.Dhruva, Secretary, Irrigation, 6th floor, M.S. Building, Bangalore, Karnataka.
- $3^{rd}$ 2. K.N.Shrivastava, MD/KBJNL floor, PWD Office Annexe, K.R.Circle, Bangalore-560 001. Galic
- 3. D.N.Dessai, Chairman, Committee for Almatti
- BAGALKOT 4. S.M.Jaamdar, Commissioner (R&R), Upper Krishna Project,/Bangalore, Karnataka.
- 5. S.S.Magadal, Chief Engineer, Bangalore, Karnataka.

#### Maharashtra

1. S.V.Sodal, Chief Engineer and Joint Secretary, Mantralaya, Govt. of Maharashtra, Bombay.

- 1. B.B.Singh Samant, Chief Engineer (Irrigation), SeehaSadan, Bhubaneswar-751 001.
- 2. K.C. Panda, Liaison Officer, Deptt. of Water Resources, Govt. of Orissa, K/11-12, NDSE-II. New Delh.

# Rajasthan

- 1. S.K.Gupta, Chief Engineer (N), Hanumangarh. (Rajasthan).
- 2. A.P.Sharda, Superintending Engineer- Irrigation, Gang Canal Projecat, Sri Ganganagar (Rajasthan).
- 3. Kuldeepbishnoi, Executive Engineer, Modernisation of Gang Canal, Sriganganagar.

# No. 16/27/2000-PA (N)/ 2538-7-5 GOVERNMENT OF INDIA CENTRAL WATER COMMISSION PROJECT APPRAISAL (NORTH) DIRECTORATE

407, SEWA BHAVAN, RK PURAM, NEW DELHI-110 066. FAX-6103561

Dated: 25th September 2000.

Subject: 74th Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 20/09/2000.

Summary record of discussions of the above meeting held at New Delhi on  $20^{th}$  September 2000 is enclosed for information and necessary action please.

Encl.: As stated above.

(R.N.P.SINGH)
CE (PAO) &
Member Secretary Advisory Committee

### Copy to:

#### MEMBERS OF COMMITTIEE:

- 1. Chairman, CWC, Sewa Bhawan, R.K.Puram, New Delhi.
- 2. Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.
- 3. Secretary, Department of Power, S.S. Bhawan, New Delhi.
- 4. Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
- 5. Secretary, Ministry of Tribal Affairs, R. No. 603, A-Wing, Shastri Bhawan, New Delhi.
- Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
- 7. Director General, ICAR, Krishi Bhawan, New Delhi.
- 8. Chairman, CEA, Sewa Bhawan, R.K.Puram, New Delhi.
- 9. Chairman, Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi-110011.
- 10. Adviser (WR), Planning Commission, Yojana Bhawan, New Delhi.
- 11. Adviser (Power), Planning Commission, Yojana Bhawan, New Delhi.
- 12. Financial Adviser, Ministry of Water Resources, S.S.Bhawan, New Delhi.

#### Special Invitees:

- 1. Member (WP&P), CWC, New Delhi.
- 2. Member (D&R), CWC, New Delhi.
- 3. Commissioner (Projects), Ministry of Water Resources, New Delhi.
- 4. Commissioner (Indus), Ministry of Water Resources, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
- 5. Chief Engineer, Krishna Godavari Basin/Director (Mon. & App.), CWC, H.No. 5/9/201/B&B1. Chirag Ali Lane, Hyderabad-500 001, A.P. (FAX No. 040-3201605)
- Chief Engineer, Mahanadi Basin/Director (Mon. & Appraisal), CWC, Plot No. 655, Sahid Nagar. Bhubneshwar751007 (Orissa). (FAX No. 0674-519432)
- 7. Chief Engineer (PPO), CWC, New Delhi.
- 8. Chief Engineer (IMO), CWC, New Delhi.
- 9. Chief Engineer (PMO), CWC, New Delhi.
- 10. Engineer-in-Chief, Water Resources, Secha Sadan, Bhubneshwar751 001, Orissa. (FAX No. 0674-404687)
- 11. Chief Engineer, Irrigation and CAD Department, Erramanjil, Hyderabad (A.P.).
- 12. Chief Engineer, Bisalpur Irrigation Project, Jaipur, Rajasthan (FAX No. 0141-702194).
- 13. Chief Engineer (North), Irrigation Department, Hanuman Garh Junction, Rajasthan (FAX No. 01552-50116).
- 14. Chief Engineer, Hathnikund Barrage, Haryana Irrigation Department, SCO-843, Manimajra, Chandigarh.
- 15. Director, Project Appraisal (North), CWC, New Delhi.
- 16. Director, Project Appraisal (Central), CWC, New Delhi.
- 17. Director, Project Appraisal (South), CWC, New Delhi.
- 18. Director, PP (Central), CWC, New Delhi.
- 19. Director, PP (N&S), CWC, New Delhi.

# Copy for information to:

- 1. Secretary, Irrigation Department, Govt. of Haryan,a Chandigarh.
- 2. Secretary, Irrigation Department, (CAD), Government of Andhra Pradesh, Hyderabad.
- 3. Secretary, Water Resources Department, Government of Orissa, Bhubneshwar, Orissa. (FAX No. 0674-402446).
- Secretary, Irrigation Department, Government of Rajasthan, Sinchai Bhawan, Bhawanisingh Marg, Jaipur-302 005 (Rajasthan).
- 5. PPS to Secretary, Ministry of Water Resources, New Delhi.

Summary Record of discussions of the 74<sup>th</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 20/09/2000.

The 74<sup>th</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects was held on 20.09.2000 at 15:00 Hrs. in the Committee Room of Ministry of Labour, S.S.Bhawan, Rafi Marg, New Delhi, under the Chairmanship of Secretary, Ministry of Water Resources. A list of participants is enclosed at Annexure - I.

Chairman of the Committee welcomed all the participants and intimated that there are eight projects (four from Orissa, two from Rajasthan, one from Andhra Pradesh and one from Haryana) to be considered in this meeting. Thereafter, he requested CE (PAO), the Member Secretary to take up the Agenda items and briefly introduce the projects one by one for the consideration and discussion by the members of the Committee.

Summary of discussions held and decisions taken are described below:

# 1. Cheligada Dam Project (Medium) – Orissa

(Inter-State Basin Transfer)

Estimated Cost : Rs. 52.96 Cr. (1999 SOR) (Rs. 28.96 Cr. for Irrigation)

CCA : 3,000 ha.
Annual Irrigation : 31,20 ha.

Drinking Water Provision : 31.54 MCM (Town)

0.73 MCM (Rural)

Chief Engineer (PAO) briefly described the project proposal with its techno-economic viability and put up the same for consideration by the Committee. On the query about the design aspects of the project including tunnel and open cut channel, State Representative replied that the Designs have been made by the Water Resources Deptt. and checked by the State's Central Design Organisation. Advisor (Planning Commission) indicated that the project is yet to be cleared by Ministry of Environment and Forest and a time limit of 6 months may be imposed for obtaining such clearances. To this, the Project officials assured that they will make all possible efforts to obtain the requisite clearances from the various Ministries within six months. The Project was then accepted subject to:

- (i) Forest and R&R Plan clearance from the concerned Central Ministries.
- (ii) Concurrence of State Finance Department.
- (iii) Monitoring of Ground Water level in Post-Project scenario to explore the possibility of conjunctive use of Surface and ground water,

(Action: MOSJ&E, MOTA, MOEF/State Government)

# 2. <u>Improvement of Sason Canal System (Excluding Paramanpur Distributory) of Hirakud Distribution System (Major) – Orissa.</u> (Modernisation)

Estimated Cost : Rs. 34.92 Cr. (1999 SOR)

CCA : 16,282 ha. Annual Irrigation : 26,051 ha.

After brief introduction of the project proposal and its techno-economic viability by Chief Engineer (PAO), the project was taken up for discussion. After a brief discussion, the project was accepted subject to:

- 1. Concurrence of State Finance Deptt.
- Monitoring of Ground Water in post project condition to take ameliorative measures to combat water logging.
- Suggestions of CWC to change the grade of lean concrete for bedding and covering around
  the joints, provision of by-pass arrangement in addition to the filling valve to achieve the
  balanced head condition during construction of the project.

(Action: State Government)

# ONG DAM PROJECT-MAJOR (ORISSA)

Estimated Cost : Rs. 304.66 Cr. (2000 SOR)

CCA : 30,000 ha.
Annual Irrigation : 34,500 ha.

After a brief introduction of the project by CE (PAO), Secretary, Ministry of Water Resources pointed out that the drinking water provision of 1.5 MCM is very low considering the live storage of 289 MCM. Moreover, as per the established practice, nearly 10% of the live storage capacity could be earmarked for drinking water supply. Representative of Govt. of Orissa clarified that this

provision has been kept for the projected population in the command area up to the year 2025. Further, there are no towns/cities to be served by this project

Representative of Govt, of Madhya Pradesh raised the issue of submergence and stated that Govt. of Orissa has not provided them any information/DPR. Representative of Govt. of Orissa clarified that they have kept the FRL at 219.0 M although the agreement between M.P. and Orissa permits FRL of 220 M and therefore submergence is not an issue. Govt. of M.P. stated that even at FRL of 219.0 M, there would be submergence in their territory. In view of this, it was concluded that a copy of DPR may be furnished to Madhya Pradesh by Orissa and Orissa should satisfy Madhya Pradesh on the issue of submergence. Advisor, Planning Commission observed that the provision for drainage and field channels were on lower side and there is a need to make adequate provision to avoid water logging and salinity problems in post project scenario. On this, representative of Govt. of Orissa intimated that since drainage problem is not anticipated in the command, the provision would be adequate. Secretary, Ministry of Water Resources stressed for proper ground water monitoring to plan for conjunctive use of water in future. The representative of Ministry of Tribal Affairs queried about the R&R Plan for the project to which representative of Govt. of Orissa informed that they would be submitting the R&R plan shortly. Secretary, Ministry of Water Resources indicated that Govt. of Orissa should submit the R&R Plan to the concerned Ministry within three months and efforts should be made to get it cleared within six months. Regarding forest and environment clearance, representative of Govt. of Orissa intimated that they would be submitting the proposal to Ministry of Environment and Forest shortly. After that the project was accepted subject to -

- 1. Forest clearance from Ministry of Environment and Forest.
- 2. R&R clearance from Ministry of Tribal Affairs.
- 3. Ground water monitoring in post project condition & planning for conjunctive use.
- 4. Concurrence of State Finance Department.

(Action: MOTA/MOEF/State Government)

# 4. IMPROVEMENT TO SALKI IRRIGATION PROJECT (ORISSA).

Estimated Cost : Rs. 11.57 Cr. (2000 SOR)

CCA : 19,891 ha. Annual Irrigation : 26,141 ha.

The project proposals were briefly explained by CE (PAO). After brief discussion, the project was accepted subject to -

 The adequate provision should be made for safe passage of revised flood of higher magnitude under intimation to CWC.

2. Concurrence of State Finance Department for updated cost.

(Action: State Government)

# 5. <u>BISALPUR DRINKING WATER-CUM-IRRIGATION SCHEME -REVISED –</u> (RAJASTHAN)

Estimated Cost : Rs. 657.91 Cr. (2000 SOR) (Rs. 385.60 Cr. for irrigation)

CCA : 76700 ha.
Annual Irrigation : 55,224 ha.
Drinking Water Provision : 458.36 MCM

After brief description of the project proposal and its techno-economic viability by CE (PAO), discussion on the project commenced. The project was earlier approved by the Planing Commission in December 1997. Forest, Environment and R&R Plan have already been cleared by the respective Ministries. After some deliberation, the project was accepted subject to following conditions:

(i) Furnishing the details of benefiting urban and rural population and their per capita allocation of drinking water in the project.

(ii) Concurrence of State Finance Department.

(Action: State Government)

# NOHAR IRRIGATION PROJECT (RAJASTHAN).

Estimated Cost : Rs. 49.38 Cr. (March 2000 SOR)

(Rs. 91.75 Cr. including share cost of Punjab and

Haryana)

CCA : 32536 ha. Annual Irrigation : 13665 ha.

Drinking Water Provision : 3 MCM

After brief description of the project proposal and its techno-economic viability by CE (PAO). discussion on the project commenced. The project was earlier approved by the Planing Commission in July 1990. Forest, Environment and R&R Plan have already been cleared by the respective Ministries. After some deliberation, the project was accepted subject to following conditions:

(i) Implementation of environmental safeguards as stipulated by Ministry of Environment and Forest.

(ii) Concurrence of State Finance Department.

(Action: State Government)

# 7. VALLIGALLU RESERVOIR (ANDHRA PRADESH)

Estimated Cost : Rs. 143.67 Cr. (1998-99 SOR)

CCA : 9715 ha.
Annual Irrigation : 10525 ha.
Drinking Water Provision : 2.23 MCM

CE (PAO) described the project proposal and its techno-economic viability. After some deliberation, the project was accepted subject to the following conditions -

1. Concurrence of State Finance Department for updated cost.

Monitoring of ground water should be done in post project conditions to adopt measures to avoid water logging.

(Action: State Government)

# 8. WESTERN YAMUNA LINK CHANNEL (HARYANA)

Estimated Cost : Rs 33.98 Cr. (1999 SOR)

CCA : Link Channel Annual Irrigation : Link Channel.

Brief description of the project proposal, its techno-economic viability was explained by (PAO). After some deliberation, the project was accepted subject to the concurrence of State Finance Department within 6 months.

(Action: State Government)

The meeting ended with vote of thanks to the Chair.

# LIST OF PARTICIPANTS

# MEMBERS OF COMMITTEE:

#### S/Slui

Ι.	Z.Hasan, Secretary, Ministry of Water Resources, New Delhi	In the Cla
2.	B.N.Navalawala, Adviser (WR), Planning commission, New Delhi	Memi
3.	K.P.S. Verma, Deputy Commissioner [WM&R] (Representing, Secretary,	Memb
	Department of Agriculture and Cooperation), New Delhi	
4.	A.K. Agarawal, Deputy Director, CGWB	Memi-
	(Representing Chairman, CGWB), Fardiabad.	
5.	Dr.D.K.Paul, Principal Scientist (Representing Director General of (ICAR),	Memi:
	New Delhi	
6.	T.Das, Director (HAD), CEA (Representing Chairman, CEA), New Delhi	Meml
7.	Jatinder Kumar, Deputy Secretary (B&T) (Representing Financial Adviser,	Mem!
	MOWR), New Delhi	
8.	S.Prakash, Deputy Secretary, (Rep. Secretary, Ministry of Social Justice &	Memb
	Empowerment), New Delhi.	
9.	R.N.P. Singh, Chief Engineer (PAO), CWC, New Delhi	Member Secreta

# Special Invitees:

## Central Water Commission

- 1. R.S.Prasad, Member (WP&P), CWC.
- 2. M.R.Baig, Chief Engineer (PPO), CWC.
- 3. A.B.Pal, Chief Engineer (PMO), CWC.
- 4. S.K.Banerjee, Director (PA-S), CWC.
- 5. A.K.Ganju, Director (BCD-EN&NE), CWC.
- 6. S.P.Singh, Director (PP-N&S), CWC.
- 7. C.N.Subramanian, Director (Mon. & Appraisal), CWC, Hyderabad.
- 8. Pradeep Kumar, Director (PA-North), CWC.
- 9. B.G.Kaushik, Director (PP-C), CWC.
- 10. P.K.Saha, Director, CWC, Bhubaneshwar.
- 11. R.K.Pachauri, Director (PA-Central), CWC.
- 12. Ram Saran, Deputy Director (PA-North), CWC.
- 13. O.P. Saxena, Deputy Director (BCD-EN&NE), CWC.
- 14. R.N.Ray, Deputy Director (PA-North), CWC.
- 15. D.N.Dahiya, Deputy Director (PA-Central), CWC.
- 16. T.D.Sharma, Deputy Director (PA-S), CWC.

#### Planning Commission

1. R.N.Sarangi, Deputy Adviser (WR), New Delhi.

#### Ministry of Water Resources

- 1. P.C.Mathur, Commissioner (Projects).
- 2. S.M.Sood, Sr. Joint Commissioner (Projects).
- 3. M.S.Gupta, Sr. Joint Commissioner (P).

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# State Government Officers:

#### Orissa

- 1. A.K.Mohanty, Engineer-in-Chief, Water Resource Department, Govt. of Orissa, Bhubaneswar.
- 2. K.C. Panda, Liaison Officer, Deptt. of Water Resources, Govt. of Orissa, K/11-12, NDSE-11, New Delhi.

#### Rajasthan

- 1. R.K.Chatur, Chief Engineer, Bisalpur Project, Sinchai Bhawan, Jawaharlal Nehru Marg, Jaipur.
- 2. K.K.Mathur, Chief Project Director-cum-Chief Engineer, Hanumangarh Jn. (Rajasthan).
- 3. Kundanlal, Superintending Engineer-Dam, Bisalpur project, Deoli, Rajasthan.
- 4. R.S.Bhandari, Superintending Engineer-Canal (Civil), Bisalpur project, Deoli, Rajasthan.
- 5. B.M.Jalan, Superintending Engineer, Nohar irrigation Project, Sidhmukh Project Circle, P.O. Bhadar-335501, Distt. Hanumangarh.
- 6. G.R. Tak, Executive Engineer, Nohar irrigation Project, Nohar, Rajasthan.

#### Harvana

- 1. M.G.Thukral, Engineer0-in-Chief, Haryana Irrigation, 30 Bays Building, Secator-17, Chandigarh.
- 2. R.K. Ailawadhi, Chief Engineer, HKB Project, 30 Bays Building, Sector-17, Chandigarh.
- 3. Kunj Vashishta, Superintending Engineer, Hathnukund Barrage, 1, Canal Colony, Jagadhre, Haryana.
- 4. G.D.Gupta, Superintending Engineer, Projects, Haryana Irrigation, SCO 883 Shivalik Enclave, U.T. Chandigarh.

#### Madhya Pradesh

- 1. G.S.Sahni, Principal Secretary, Govt. of Madhya Pradesh, WRD, Bhopal.
- 2. Ranjit Chakraborty, Deputy Secretary, WRD, Govt. of Madhya Pradesh, Bhopal.
- 3. S.S.Sachdev, Executive Engineer, M.P. Water Resources Department, L-26, South Extension-II, Government of Madhya Pradesh, Delhi.

# No. 16/27/2000-PA (N)/ 3262-3307 GOVERNMENT OF INDIA CENTRAL WATER COMMISSION PROJECT APPRAISAL (NORTH) DIRECTORATE

407, SEWA BHAVAN, RK PURAM, NEW DELHI-110 066. FAX-6103561

Dated: 22 nd December 2000.

Subject: 75<sup>th</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 18/12/2000.

Summary record of discussions of the above meeting held at New Delhi on 18<sup>th</sup> December 2000 is enclosed for information and necessary action please.

Encl.: As stated above.

(R.N.P.SINGH) CE (PAO) & Member Secretary -Advisory Committee

## Copy to:

#### **MEMBERS OF COMMITTEE:**

- 1. Chairman, CWC, Sewa Bhawan, R.K.Puram, New Delhi.
- 2. Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.
- 3. Secretary, Department of Power, S.S. Bhawan, New Delhi.
- 4. Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
- 5. Secretary, Ministry of Tribal Affaiars, R. No. 603, A-Wing, Shastri Bhawan, New Delhi.
- 6. Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
- 7. Director General, ICAR, Krishi Bhawan, New Delhi.
- 8. Chairman, CEA, Sewa Bhawan, R.K.Puram, New Delhi.
- 9. Chairman, Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi-110011.
- 10. Adviser (WR), Planning Commission, Yojana Bhawan, New Delhi.
- 11. Adviser (Power), Planning Commission, Yojana Bhawan, New Delhi.
- 12. Financial Adviser, Ministry of Water Resources, S.S.Bhawan, New Delhi.

# Special Invitees:

- 1. Member (WP&P), CWC, New Delhi.
- 2. Member (D&R), CWC, New Delhi.
- 3. Commissioner (Projects), Ministry of Water Resources, New Delhi.
- 4. Commissioner (Indus), Ministry of Water Resources, CGO Complex, Block-11, 8<sup>th</sup> floor, Lodhi Road, New Delhi.
- 5. Chief Engineer, Krishna Godavari Basin/Director (Mon. & App.), CWC, H.No. 5/9/201/B&B1, Chirag Ali Lane, Hyderabad-500 001, A.P. (FAX No. 040-3201605)
- Chief Engineer, Mahanadi Basin/Director (Mon. & Appraisal), CWC, Plot No. 655, Sahid Nagar, Bhubneshwar751007 (Orissa). (FAX No. 0674-519432)
- 7. Chief Engineer (Indus Basin)/Director (Mon. & Appraisal), CWC, Chandigarh.
- 8. Chief Engineer (EMO), CWC, New Delhi.
- 9. Chief Engineer (PMO), CWC, New Delhi.
- Engineer-in-Chief, Water Resources, Secha Sadan, Bhubneshwar751 001, Orissa. (FAX No. 0674-404687)
- 11. Chief Engineer, Project & Planning, Water Resources, Secha Sadan, Bhubneshwar751 001, Orissa. (FAX No. 0674-404687)
- 12. Chief Engineer, Irrigation and CAD Department, Govt. of A.P., Erramanjil, Hyderabad (A.P.).
- 13. Chief Engineer, Planning & Monitoring, Water Resources Deptt., Govt. of Bihar, Sinchai Bhawan, Patna.
- 14. Chief Engineer (Canals), Irrigation Works Department, Government of Punjab, Hydel Building, Sector-18, Chandigarh-160 018.
- 15. Engineer-in-Chief (IPH), Irrigation Department, Govt. of H.P., Shimla-171 001.
- 16. Chief Engineer, Irrigation & Flood Control, Govt. of J&K, Jammu.
- 17. Chief Engineer, Irrigation & Flood Control, Govt. of J&K, Srinagar.
- 18. Chief Engineer, Rajghat Dam, Betwa River Board, Nandanpura Junction, Jhansi (U.P.), Pin No. 284 003.
- 19. Chief Engineer (Ganga), Irrigation Department, Govt. of U.P., Victoria Park, Meerut (U.P.).
- 20. Director, Mon. & Appraisal, CWC, Shimla.
- 21. Director, Mon. & Appraisal, CWC, Jammu.
- 22. Director, Project Appraisal (North), CWC, New Delhi.
- 23. Director, Project Appraisal (Central), CWC, New Delhi.
- 24. Director, Project Appraisal (South), CWC, New Delhi.
- 25. Director, Control Board, CWC, New Delhi.

# Copy for Information to:

- 1. Principal Secretary, Irrigation & Power Department, Government of Punjab, Sector-9, Chandigarh-160009.
- Secretary, Irrigation Department, (CAD), Government of Andhra Pradesh, Hyderabad.
- 3. Secretary, Water Resources Department, Government of Orissa, Bhubneshwar, Orissa. (FAX No. 0674-402446).
- 4. Secretary, Irrigation Department, Government of Bihar, Sinchai Bhawan, Patna.
- 5. Secretary, Irrigation, Govt. of Himachal Pradesh, Shimla-171 002.
- 6. Secretary, Irrigation Department, Govt. of J&K, Jammu-180 001.
- 7. Secretary, Irrigation Department, Government of Uttar Pradesh, Lucknow-226 001 (U.P.).
- 8. Secretary, Irrigation and Waterways Directorate, Government of West Bengal, Writers Building, Calcutta-700 001.
- 9. PPS to Secretary, Ministry of Water Resources, New Delhi.

# Central Water Commission Project Appraisal Organisation

Summary Record of discussions of the 75<sup>th</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 18.12.2000.

75<sup>th</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects was held on 18.12..2000 at 11:00 Hrs. in the Committee Room of Ministry of Labour, Shram Shakti Bhawan, Rafi Marg, New Delhi, under the Chairmanship of Secretary, Ministry of Water Resources. A list of participants is enclosed at Annexure - I.

Chairman of the Committee welcomed all the participants and intimated that there are ten projects (Two from Andhra, two from J&K and one each from Bihar, Madhya Pradesli, Punjab, Himachal Pradesh, Orissa and Uttar Pradesh) to be considered in this meeting. Thereafter, the Chairman requested CE (PAO), the Member Secretary to take up the Agenda items and briefly introduce the projects one by one for the consideration and discussion by the Members of the Committee and clarification, if any, be given by the Special Invitees.

The following projects were taken up as per agenda. The discussions held and decision taken by the Committee are summarised below:

#### 1. BHUPATHIPALEM RESERVOIR SCHEME (MEDIUM)-ANDHRA PRADESH

Estimated Cost - Rs. 47.23 crores

(1998-99 SOR)

CCA

- 5419 ha

Annual Irrigation:

6516 ha.

Chief Engineer(PAO) briefly explained the project proposal with its techno-economic viability and put up the same for consideration by the Committee. The Commissioner (Projects) stated that B.C. Ratio of this Project is 1.52 which is marginal. The Chief Engineer, KGB, CWC explained the background of this project and emphasised for its clearance as it was included in the Godavari Action Plan. The Project was accepted by the Committee subject to the following conditions:

- i) Review of design flood at the time of construction based on observed data;
- ii) Approval of R&R Master Plan by Ministry of Tribal Affairs;
- iii) Provision of adequate funds;
- iv) Clearance for diversion of 180 ha. forest land as per Forest Conservation Act 1980.

(Action: Forest Deptt./State Govt.)

# 2.SURAMPALEM RESERVOIR SCHEME PHASE-II (MEDIUM)-ANDHRA PRADESH

Estimated Cost - Rs. 4950 crores

(1998-99 SOR)

CCA

- 5120 ha

Annual Irrigation:

5520 ha.

The Project was taken up for discussion after brief introduction of the project proposal and its techno-economic viability of the project by the Chief Engineer (PAO). The Director (WR), Planning Commission stated that this proposal is linked up with the project proposal indicated at Sl. No. 1. As such, it would have been better to consider it as an integrated project instead of separately. This was clarified by Chief Engineer, KGB, Hyderabad that the command area available at Bhupati Palm is less and therefore they contemplated to divert surplus water to Surampalem Reservoir where from additional area available could be irrigated. Chairman, CWC indicated that this aspect of the project would be required to be kept in view while implementing the Suram Palem Project (Phase I) accepted by the Advisory Committee earlier since a part of the main canal will be common water carrier. After some discussions, the Project was accepted to following conditions:

- i) Provision of adequate funds
- ii) Review of design flood of Surampalem Reservoir and Blupathipalem Reservoir at the time of construction based on observed data;
- iii) Clearance of R&R Plan of Surampalem and Bhupathipalem Reservoir Schemes by the Ministry of Tribal Affairs; and
- iv) Clearance for diversion of 180 ha forest land of Bhupathipalem Reservoir Scheme as per Forest Conservation Act, 1980.

(Action: Forest Deptt./State Govt.)

# 3. MODERNISATION OF KATHUA CANAL (MEDIUM) -( J & K)

Estimated Cost - Rs. 15.68 crores

(1997 SOR)

CCA - Additional 1994 ha.

Annual Irrigation: 3304 ha.

The Project proposal was brief explained by the Chief Engineer (PAO). The Commissioner (Projects) pointed out that the IRR is only 8% which is on lower side. It was clarified by the project authority that the working period is only two months i.e. during February and March due to which the progress of work is slow and the time of construction is higher resulting in lower internal rate of return. The project was accepted by the Committee subject to:-

- (i) Concurrence of the State Finance Department for the latest estimated cost of Rs.15.68 crores and,
- (ii) Monitoring of ground water level in post project condition for proper planning of surface and ground water utilisation.

(Action: State Government)

#### 4. MODERNISATION OF ZAINGIR CANAL (MEDIUM) - J & K

Estimated Cost - Rs. 13.66 Crores

(3/2000 price level)

CCA - (Additional 300 ha)

Annual Irrigation – Additional –2140 ha)

After brief introduction of the project proposal and its techno-economic viability by CE (PAO), the project was taken up for discussion. The Commissioner (Project) pointed out that the B.C. Ratio of 3.89 of this project appears to be on higher side. The CE (PAO) clarified that the project draws water directly from the river and there is no structurescross the river and therefore, the B.C. ratio is higher. To the query about the allocation of fund to this project, the project official clarified that recently the State Government has proposed to take up the construction of this project under A.I.B.P. After brief discussion, the project was accepted subject to:

 i) concurrence of the State Finance Department for the latest estimated cost of Rs.13.66 Crores.

(Action: State Government)

# 5. BALH VALIEY (LEFT BANK) MEDIUM IRRIGATION PROJECT - HIMACHAL PRADESH.

Estimated Cost - Rs.41.64 Crores

(1999-2000 SOR)

CCA - 2780 ha

Annual Irrigation - 4354 ha

The project proposals were brief explained by CE (PAO). To the query about concurrence of this project by co-basin States, it was clarified that BBMB had already conveyed the concurrence on behalf of the partner States. The project was accepted by Advisory Committee subject to the following conditions:-

- i) Concurrence of the State Finance Department for the latest cost of Rs.41.64 crores.
- ii) Certificate of non-involvement of forest land from the Forest Department.

(Action: State Government/Forest Department)

## 6. RAISING LINING OF BHAKRA MAIN LINE (MAJOR) - PUNJAB

Estimated Cost - Rs.20.46 Crores

(8/98 price level)

CCA - Not applicable)

Annual Irrigation - Not applicable

The project proposals and the techno-economic viability were briefly explained by Chief Engineer (PAO). After some deliberations, the project was accepted by the Advisory Committee subject to:-

The concurrence of State finance Department for the latest estimated cost of Rs.20.46 crores.

(Action: State Government)

## 7. RAJGHAT DAM PROJECT - M.P. AND U.P. (REVISED ESTIMATE)

Estimated Cost – Rs.300.60 Crore

(1/2000 price level)

CCA – 145378 ha – U.P. (Net)

150227 ha – M.P. (Net)

Annual Irrigation – 142083 ha. U.P

– 121450 ha. M.P.

After the initial introduction of the project by the CE (PAO), the project was taken up for discussion. The Chief Engineer, Raighat Dam Project, informed that Raighat Dam being a joint venture of U.P. and M.P. States, the funds are to be provided by the respective State Governments equally as per interstate agreement. The construction of the project is in advanced stage and likely to be completed by 6/2001. The reason for increase in cost is mainly due to price rise, inadequate provision for R&R. He further stated that about Rs.30 crores are to be paid to farmers as land compensation/R&R. Chairman, Advisory Committee asked whether estimate has been examined by the Executive Committee of Betwa River Board and the concurrence of State Govts have been obtained. The Member (WP&P) informed that CWC has earlier finalised the cost of the project as Rs.267.29 crore in 1995 which had been accepted by the Executive Committee and the partner States have been paying their shares. U.P. Govt had released its share of Rs.133,00 crore while the M.P. Govt. has released about Rs.90 crore. Further the State Govts have agreed to release their shares only after the acceptance of the revised cost by the Advisory Committee. Director (EM), CWC pointed out about the slow progress of the implementation of some of environmental safeguard. Chief Engineer (PAO) also intimated that similar observations have been made by Ministry of Environment and Forest. They have also raised some observations about catchment area treatment, etc. Chief Engineer, Rajghat Dam Project informed that State Govt. is taking up the plantation work under green belt. Compliance to other environmental conditions, Member (WP&P), CWC stated that these points will be sorted out in the Executive Committee Meeting.

After some discussions, the revised estimate of the project was accepted subject to the following conditions;

- Implementation of Environmental Safeguards as suggested by Ministry of Environment and Forest.
- ii) Computation of Integrated B.C. Ratio and concurrence of co-basin States for the present revised cost.

iii)R&R Plan clearance from Ministry of Tribal Affairs for S.T. population affected.

(Action: State of U.P. & M.P./ Betwa Control Board)

# 8. MODERNISATION OF AGRA CANAL (MAJOR) – UTTAR PRADESH.

Estimated Cost – Rs.74.16 Crore
12/99 price level)

CCA – 32,700 ha (Additional)

Annual Irrigation – 50,000 ha (Additional)

After brief introduction of the project proposals and its techno-economic viability by CE (PAO), the project was taken up for discussion. Chairman (Advisory Committee) desired to know whether the present modernisation proposal included the share of Haryana and Rajasthan. The State officials of U.P. intimated that the present capacity expansion is only for the share of their States. Since the first sixteen Kilometer of the Canal would require to carry the share of Haryana and Rajasthan also, this reach would require further capacity expansion. Accordingly, the Govt. of U.P. must frame the proposal including the share of Haryana and Rajasthan and submit the report within two months. This was agreed to by the U.P. State Govt. officials. Director (EM), CWC pointed out that the estimated cost of this scheme is more than Rs.50 crores, the environmental clearance is required to be obtained. The State Govt. officials agreed to take necessary action & submit the EIA report within three months. The project was then accepted by the Advisory Committee subject to the following conditions;

- i) Concurrence of State Finance Department for an estimated cost of Rs.74.16 crores.
- ii) Submission of Project Report for capacity expansion in the initial sixteen-km. reach of the canal to carry the shares of Haryana and Rajasthan as well within two months.
- iii) Environment clearance from Ministry of Environment and Forest.

(Action: State Govt/Ministry of Environment and Forest)

# KONAR IRRIGATION PROJECT (MAJOR) – BIHAR.

Estimated Cost – 336..69 Crore
(3/2000 price level)

CCA – 56293 ha

Annual Irrigation – 64738 ha

The project proposal and its techno-economic viability was briefly explained by CE (PAO). Director (WR), Planning Commission pointed out about the interstate issue of the project. To this, it was clarified that this aspect has earlier been discussed in the interstate meetings with DVC, Bihar and West Bengal. The Govt. of West Bengal has also conveyed its no objection to this project. Further, other connected clauses of Interstate Agreement of 1978 do not require any clearance by Advisory Committee/Planning Commission while the construction of Project would require clearance by the Advisory Committee & Planning Commission. The clearance of the project would rather pave the way for the resolution of the other connected issues of the Agreement mutually by party-States. After a brief further discussions, the project was accepted by the Advisory Committee subject to the following conditions;

- Concurrence of the State Finance Department for the latest cost of Rs.336.69 crores.
- ii) Environmental clearance from Ministry of Environment and Forest,
- iii) Implementation of the Project will be subject to strict compliance of the relevant clauses of Interstate Agreement between Govt. of West Bengal & Bihar of 19<sup>th</sup> July, 1978.

(Action: Ministry of Environment and Forest/State Govt.)

# 10. BRUTANG IRRIGATION PROJECT (MAJOR) - ORISSA

Estimated Cost – Rs. 227.25 Crore
(2000 Price level)

CCA – 23,300 ha

Annual Irrigation – 30,290 ha

The CE (PAO) briefly explained the project proposals and its techno-economic viability. Director (EM), CWC pointed out that this project would require environmental clearance for which it appears that no action has been initiated by the State Govt. The Engineer-in-Chief, Govt. of Orissa informed that they would take up the case on priority basis and would make efforts to submit the EIA report within three months and obtain all statutory clearances within a year.

After a brief further discussion, the project was accepted by the Advisory Committee subject to the following conditions;

- i) Clearance of forest, environment, and R&R Plan from the concerned Central Ministries.
- ii) Concurrence of State Finance Department for the finalised cost of the project.
- iii) Monitoring of ground water in post project condition with State Ground Water Board to guard against waterlogging in the command area.
- iv) Hydrological data observation at the dam site and collection of reliable catchment rainfall data for firming up the Hydrology at detailed design stage.
- v) Model testing for energy dissipation arrangement, reservoir water tightness studies, additional laboratory and in-situ tests for embankment materials, dam foundation and abutments as per standard procedure & practice at detailed design stage.

(Action: State Govt./Ministry of Environment and Forest)

Meeting ended with vote of thanks to the Chair.

# LIST OF PARTICIPANTS

#### MEMBERS OF COMMITTEE:

#### S/Shri

2/2011				
1.	Z.Hasan, Secretary, Ministry of Water Resources, New Delhi	I	n the Chair	
2.	R.S.Prasad, Chairman, CWC, New Delhi.		Member	
3.	Shailendra Pandey, Joint Secretary & Financial Adviser, MOWR, New Delhi		Member	
4.	K.K.Narang, [Representing Adviser -WR], Planning commission, New Delhi		Member	
5.	Ashok Kumar, Director (Hydro Appraisal), [Representing Chairman] CEA,		Member	
	New Delhi			
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6. R.N.P. Singh, Chief Engineer (PAO), CWC, New Delhi

Member Secretary

#### Special Invitees:

#### Central Water Commission

- 1. A.Sekhar, Chief Engineer, KG Basin, CWC, Hyderabad.
- 2. A.B.Pal, Chief Engineer (PMO), CWC.
- 3. S.C.Sud, Chief Engineer (Indus Basin) CWC, Chandigarh.
- 4. R.S.Goel, Director (EM), CWC.
- 5. D.S.Khangura, Director (M&A), CWC, Chandigarh.
- 6. C.N.Subramanian, Director (Mon. & Appraisal), CWC, Hyderabad.
- 7. G.C. Vyas, Director (BCD-NW&NWS), CWC.
- 8. S.K.Banerjee, Director (PA-S), CWC.
- 9. Pradeep Kumar, Director (PA-North), CWC.
- 10. Rajesh Kumar, Director (M&A), CWC, Shimla.
- 11. W.M. Tembhurney, Director (PA-C), CWC.
- 12. Ram Saran, Deputy Director (PA-North), CWC.
- 13. Rakesh Kashyap, Deputy Director, M&A, CWC, Jammu.
- 14. R.N.Ray, Deputy Director (PA-North), CWC.
- 15. D.N.Dahiya, Deputy Director (PA-Central), CWC.
- 16. T.D.Sharma, Deputy Director (PA-S), CWC.

#### **Planning Commission**

1. R.N.Sarangi, Deputy Adviser (WR), New Delhi.

# Ministry of Water Resources

- 1. P.C.Mathur, Commissioner (Projects).
- 2. S.M.Sood, Sr. Joint Commissioner (Projects).
- 3. Jatinder Kumar, Dy. Secretary (B&T).

# State Government Officers:

#### Andhra Pradesh

1. Routhu Jatyana Rayana, Chief Engineer (Med. Irrigation), Errum Manzil, Hyderabad-500 452.

#### Himachal Pradesh

- 1. Shashikant Gupta, Engineer-in-Chicf (IPH), Vsehli, Shimla-1.
- 2. Er. B.K.Mukheja, Superintendent Engineer, IPH Circle, Sundernagar, H.P.
- 3. G.R. Yadav, DHD, IPH Division, Baggi, Distt. Mandi, H.P.

#### J&K

- 1. S.K. Kotwal, Chief Engineer, Irrigation and Flood Control Department, Jammu.
- 2. J.R.Gupta, Chief Engineer, Irrigation and Flood Control Department, Kaslunir.
- 3. Zaffeer Ahmed, Technical Officer, Irrigation and Flood Control Deptt., Kashmir.
- 4. S.M. Usman, Ex. Engineer, Irrigation and Flood Control Deptt., Kashmir.

# Madhya Pradesh

1. Shyama Prasad, Chief Engineer (Rajghat), Rajghat Dam Project, Betwa River Board, Jhansi, Uttar Pradesh.

#### <u>Orissa</u>

- 1. A.K.Mohanty, Engineer-in-Chief, Water Resource Department, Govt. of Orissa, Bhubaneswar.
- 2. K.C. Panda, Liaison Officer, Deptt. of Water Resources, Govt. of Orissa, K/11-12, NDSE-II, New Delhi.

# Punjab

- 1. Gulwant Singh, CMD, BML Circle, Patiala.
- 2. K.S.Kamboj, Superintending Engineer, Irrigation Punjab, BML, Patiala,

#### Uttor Pradesh

- 1. R.K.Dewan, Chief Engineer (Ganga), Irrigation Department, Govt. of U.P., Victoria Park, Meerut, U.P.
- 2. L.R.Bansal, Superintending Engineer, 3<sup>rd</sup> Circle, 139 MG Marg Road, Irrigation Department, Govt. of U.P., Agra.
- 3. Mahesh Chandra Chawla, Superintending Engineer & SSO, Poorvi Ganga (U.P. Irrigation) Moradabad.
- 4. S.K.Gogia, Executive Engineer, 3rd Circle, Irrigation and Waterway, Agra.

# No. 16/27/2000-PA (N)/ 6/0-49 GOVERNMENT OF INDIA CENTRAL WATER COMMISSION PROJECT APPRAISAL (NORTH) DIRECTORATE

407, SEWA BHAVAN, RK PURAM, NEW DELHI-110 066. FAX-6103561

Dated: 3-0th Marth, 2001.

Subject: 76<sup>h</sup> Meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 29/3/2001.

Summary record of discussions of the above meeting held at New Delhi on 29<sup>th</sup> March, 2001 is enclosed for information and necessary action please.

Encl.: As stated above.

(S.K. Chaudhuri)
CE (PAO) &
Member Secretary Advisory Committee

# Copy to:

## **MEMBERS OF COMMITTEE:**

- 1. Chairman, CWC, Sewa Bhawan, R.K.Puram, New Delhi.
- 2. Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.
- 3. Secretary, Department of Power, S.S. Bhawan, New Delhi.
- Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
- 5. Secretary, Ministry of Tribal Affaiars, R. No. 603, A-Wing, Shastri Bhawan, New Delhi.
- 6. Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
- 7. Director General, ICAR, Krishi Bhawan, New Delhi.
- 8. Chairman, CEA, Sewa Bhawan, R.K.Puram, New Delhi.
- Chairman, Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi-110011.
- 10. Adviser (WR), Planning Commission, Yojana Bhawan, New Delhi.
- 11. Adviser (Power), Planning Commission, Yojana Bhawan, New Delhi.
- 12. Financial Adviser, Ministry of Water Resources, S.S.Bhawan, New Delhi.

#### Special Invitees:

- 1. Member (WP&P), CWC, New Delhi.
- Member (D&R), CWC, New Delhi.
- 3. Member (RM), CWC, New Delhi.
- 4. Chairman, GFCC, Sinchai Bhawan, Patna 800 015, Bihar.
- 5. Commissioner (Projects), Ministry of Water Resources, New Delhi.
- Commissioner (Indus), Ministry of Water Resources, CGO Complex, Block-11, 8<sup>th</sup> floor, Lodhi Road, New Delhi.
- 7. Commissioner (ER), Ministry of Water Resources, CGO Complex, Block-11, 8<sup>th</sup> floor, Lodhi Road, New Delhi.
- 8. Chief Engineer, Mahanadi Basin/Director (Mon. & Appraisal), CWC, Plot No. 655, Sahid Nagar, Bhubneshwar751007 (Orissa). (FAX No. 0674-519432)
- 9. Chief Engineer (Indus Basin)/Director (Mon. & Appraisal), CWC, Chandigarh.
- 10. Chief Engineer (EMO), CWC, New Delhi.
- 11. Chief Engineer (PMO), CWC, New Delhi.
- 12. Chief Engineer (PPO), CWC, New Delhi.
- 13. Chief Engineer (FMO), CWC, New Delhi.
- 14. Engineer-in-Chief, Water Resources, Secha Sadan, Bhubneshwar751 001, Orissa. (FAX No. 0674-404687)
- Sh. S. Mund, Chief Engineer, PP & F, Water Resources Deptt., Govt. of Orissa, Secha Sadan, Bhubneshwar-751 001, Orissa. (FAX No. 0674-410386)
- 16. Chief Engineer, Irrigation & Flood Control, Govt. of J&K, Jammu.
- 17. Chief Engineer, Irrigation Deptt., Govt. of Rajasthan, Jaipur.
- 18. Chief Engineer (Ganga), Irrigation Department, Govt. of U.P., Victoria Park, Meerut (U.P.).
- 19. Director, Mon. & Appraisal, CWC, Jammu.
- 20. Director, Project Appraisal (North), CWC, New Delhi.
- 21. Director, PPO, CWC, New Delhi.
- 22. Director, Project Appraisal (South), CWC, New Delhi.

#### copy for information to:

- Secretary, Water Resources Department, Government of Orissa, Bhubneshwar, Orissa. (FAX No. 0674-402446).
- 2. Secretary, Irrigation Department, Government of Bihar, Sinchai Bhawan, Patna- 800 015...
- 3. Secretary, Irrigation Department, Govt. of J&K, Jammu-180 001.
- 4. Secretary, Irrigation Department, Govt. of Rajasthan, Jaipur.
- Secretary, Irrigation Department, Government of Uttar Pradesh, Lucknow-226 001 (U.P.).
- 6. PPS to Secretary, Ministry of Water Resources, New Delhi.

# Central Water Commission Project Appraisal Organisation \*\*\*\*

Summary Record of discussions of the 76th meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects held on 29.3.2001.

76<sup>th</sup> meeting of Advisory Committee on Irrigation, Flood Control and Multipurpose Projects was held on 29.3,2001 at 15.00 hrs. in the Committee Room of Central Water Commission, Sewa Bhayan, R.K.Puram, New Delhi under the Chairmanship of Secretary, M/o Water Resources. A list of participants is enclosed at Annexure-I.

Chairman of the Committee welcomed all the Members of the Committee and participants and intimated that there are seven projects including 2 Two Nos. Flood Control projects from GFCC (one from Bihar and one from J&K) two from Orissa and one from Rajasthan & two from Uttar Pradesh) to be considered in this meeting. Thereafter, the Chairman requested C.E. (PAO), the Member-Secretary to take up the Agenda items and briefly introduce the project one by one for consideration and discussion by the Members of the Committee and clarifications, if any, be given by the special invitees.

The projects were taken up as per Agenda. The discussions held and decision taken by the Committee are summarised below:

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# 1. PROVIDING KHARIF CHANNEL IN HINDON KRISHNI DOAB (U.P.)

Estimated Cost: Rs.66.34 Crore

(12/99 price level)

GCA

: 31,420 Ha. V

Annual Irrigation: 11600 Ha.

Chief Engineer (PAO) briefly explained the project proposals with its techno-economic viability and put up the same for consideration by the Committee. Chairman. Advisory Committee asked the present status of the progress of the work. The project features and present status of work have been explained by the Chief Engineer (Ganga). Irrigation Deptt., U.P. Director (EM). CWC mentioned that environmental impact studies should be the integral part of DPR and details are required to be given even though the cost of project is below Rs.50.00 Crore. On this. Director (I&CAD), Planning Commission clarified that the case for environmental clearance will be processed for project costing more than 50 chooses only. Chairman. Advisory Committee mentioned that the project has been recently approved by the Planning Commission on 7.12.2000. As such, where is the need for putting the project again on FAC. On this. Chief Engineer Ganga). Irrigation Deptt., U.P. clarified that the approval was given at 9.96 price level and the present estimate of Rs.66.34 crore is based on 12.99 price level.

contd....3...

After some discussions, the revised estimate of the project was accepted subject to the following conditions.

- Environmental clearance is to be obtained from the M/o Environment and Forest, GOL
- Concurrence of State Finance Deptt. for the revised cost of Rs.66.34 Crore.

(Action: M/o Environment & Forests/State Govt.)

# 2. ANANDPUR BARRAGE PROJECT ACROSS RIVER BAITARANI (MAJOR) - ORISSA.

Estimated Cost: Rs.482.26 Crore

(2000 price level)

CCA: 60,000 Ha.

Annual Irrigation: 56,720 Ha.

The project proposal was briefly explained by the C.E. (PAO). Chairman, Advisory Committee asked the features of the project mainly the technical feasibility of diversion of water from the proposed Anandpur Barrage to Bidhyadharpur Barrage already constructed under Salandi Irrigation Project. The Chief Engineer (PPF), Irrigation Deptt. Bhubaneswar, Orissa exaplained that there is a drop of 4 m, and as such there is no problem for linkage of barrage through canal system. The detailed survey, investigation are in progress and model studies for maintaining the desired flow is being carried out as suggested by CWC.

before taking up the construction. Director (EM), CWC mentioned that detailed environmental impact studies is yet to be done and proposal to be submitted to MOE&F. The Chairman, Advisory Committee mentioned that a time limit of 6 months to be given for submission of proposal to MOE&F and obtaining the environmental clearance. If desired by the State, necessary assistance would be provided by EM Dte. CWC for finalising the Environmental impact studies. If requested by State Govt., Director (EM) may camp for a fortnight or so to help the project authorities.

After discussion, the project was accepted by the Committee subject to the following conditions:

- i) Concurrence of State Finance Deptt. for the finalised cost of the project.
  - ii) Monitoring of ground water in post project condition and to plan for conjunctive utilisation in consultation with State ground water Board to guard against water logging in the command area.
  - iii) Collection of Hydrological data observation at the barrage site & reliable catchment rainfall data for firming up the yield at project site.
  - iv) Collection of short term rain fall data in catchment for adopting Hydrometeorological approach in design flood studies.
  - Obtaining concurrence of State Agriculture Department for Cropping Pattern and crop calendar adopted in the project.
  - vi) Hydraulic parameters of the link channel linking proposed Anandpur Barrage (across river Baitarani) to existing Barrage (across river Salandi at Bidyadhanpur) to be finalised after detailed survey, investigation and model studies so as to maintain the desired flow.

- vii) The required Geological and Foundation investigations need to be carried out and designs for construction done according to the analysis and results therefrom before starting execution of the project.
- viii) At the time of detailed designs points like required tests/model studies, reducing the top of the structure level shall be considered before construction.
- ix) Test results for the soil from foundation and construction materials may be got vetted from C.S.M.R.S. before execution of the project.
- x) Certificate from State Forest Department for non-involvement of forest land in the project to be furnished.
- xi) Environmental clearance from the M/o Environment & Forests, GOI within 6 months.

(Action: State Govt./M/o Env. & Forest/EM Dte., CWC)

# 3. HADUA IRRIGATION PROJECT (MEDIUM) - ORISSA

Estimated Cost: Rs.61.48 Crore /

CCA: 3948 Ha. /

Annual Irrigation: 5728 Ha.

After the brief introduction of the project by C.E. (PAO), the project was taken up for discussion. Chairman, Advisory Committee asked about the interstate issues. C.E. (MERO), CWC explained that the proposed catchment and command area lies in Orissa state. However, being a tributory of Mahanadi river it involves interstate issue. At present, there is no agreement between Madhya Pradesh and recently created Chhattisgarh State. Director (EM), CWC mentioned that the provisions made for R&R is seems to be on lower side. On this, CE (MERO) explained that provision has been made as per R&R outlay 1994 of Orissa State. Director (PAC) further explained that Rs.39.76 lakhs is made for R&R works. In addition, Rs.58 lakhs provision has been made for land acquisition & compensation for property submerged. Present status of R&R is also explained by the Chief Engineer of the Project. In view of the good drop available, it was suggested to explore possibilition Hydro Power generation.

After discussion , the project was accepted by the Committee subject to the following conditions.

- Project authorities have to obtain the clearance from Ministry of Tribal Affairs, Govt, of India for rehabilitation and resettlement plan for the project affected people in project area.
- Forest clearance from Ministry of Environment and Forests, Government of India is to be obtained for diversion of 210 Ha. of forest land.
  - 3. Monitoring of ground water levels in the post-irrigation stage may be done and necessary ground water utilisation plan may be prepared in consultation with the State Ground Water Department at that time if it deems feasible to explore the possibility of conjunctive use of ground and surface water.
- Concurrence of the State Finance Department for the estimate of Rs.61.48 crore is to be obtained.
  - Since the project lies under Mahanadi Basin which is an interstate basin between Orissa and Chhatisgarh, the Govt. of Orissa may inform Govt. of Chhattisgarh before taking up the construction of the project.
  - The State Government should continue collection of hydrological and hydrometeorological data to firm up the hydrological parameters at the detailed design and operation stage.
  - Specific plan out should be made in favour of the project during current 9<sup>th</sup>
    Five year Plan.
  - 8. Feasibility for exploration of Hydro Power Generation.
  - Clearance from Environmental angle from M/o Environment & Forest, with 6 months.

(Action: State Govt./M/o Environment & Forest)
contd..8..

# 4. RAFIABAD HIGH LIFT IRRIGATION SCHEME (J&K)

Estimated Cost: Rs.35.60 Crore V

(3/2000 price level)

CCA: 2932 Ha.

Annual Irrigation: 2932 Ha.

After the initial introduction of the project by the CE (PAO), the project was taken up for discussion. Chairman, Advisory Committee asked the additional benefit in terms of foddar against 2000 acres of orchard land. CE, Irrigation Deptt., Kashmir explained that 64 Million Ton Luciane will be produced and value of produces will be Rs.11-20 crore. Chairman, Advisory Committee further pointed out that as per latest Guidelines of Planning Commission if no interstate issues are involved the State Govt. can themselves clear the project. CE, Irrigation Deptt. stated that due to Indus water Treaty, it involves the international issue and clearance which were sought earlier in 1984 while considering the project from International angle.

After discussions, the Committee accepted the project subject M: Ko

- Concurrence of State Finance Department for Rs.35.60 Crore.
- ii) Clearance from State CDO in r/o Design aspects.

(Action: State Govt.)

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# 5. RAJASTHAN WATER SECTOR RESTRUCTURING PROJECT (RAJASTHAN)

Estimated Cost: Rs.745.59 Crore 

CCA: 619195 Ha.

(Rehabilitation of system covering CCA)

The project proposal was explained by CE (PAO). Thereafter, the project was taken up for discussions. The Chief Engineer, Irrigation Deptt., Govt. of Rajasthan has explained the main features of the project. He stated that Rajasthan Government wish the assistance of the World Bank propose to carry-out rehabilitation of 8 Major, 37 medium and 46 minor schemes of existing projects and overall water sector reform covering CCA of 6,19,195 Ha, for which detailed studies on various aspects related to canal system, environment, agronomy, socioeconomic conditions etc. were carried out. A grant from Japanese Govt.- PHRD Grant and ADP funds were made available to the State Govt. for taking up the studies. Director, Planning Commission asked whether the project has been cleared from State Finance Deptt. On this CE, Irrigation Deptt., Rajasthan stated that the case has been taken up with the State Govt, for expediting the same. Planning Commission further mentioned that integrated and coordinated approach is required as it involves nos of aspects. CE (PPO), CWC explained that the proposal has been examined as per guidelines. He further stated that there is no extra utilisation of water, no restructuring of the project, no environmental clearance is necessary as per suggestions of M/o Environment & Forest.

After discussions, the Committee accepted the project subject to following conditions:

- Planning Ground Water Extraction for irrigation and drinking water purposes should be formulated in consultation with Central Ground Water Board.
- State Government should prepare plans for drinking water allocation for the entire state under normal and drought years.
- State should submit quarterly progress report and Annual Action Plans for the project implementation to CWC for monitoring.
- Dam break studies and disaster mitigation plans should be prepared under the Environmental Studies.
- Government of Rajasthan should ensure timely fund allocation to all the components under the project to ensure full and timely utilisation of IDA Credit.
- vi) Possibility of charging water rates from non-agricultural uses may also be explored.
- vii) Works pertaining to increase in height of any dam has to be submitted to CWC for clearance before taking up its execution.
- viii) Any additional utilisation of water may be taken up only in Sonsultation with CWC, BBMB and MR Rajasthan Interstate Control Board.

dealer

(Action: State Govt. CWC)

- 11 -

6. JEWAR - TAPPAL EMBANKMENT SCHEME (U.P.)

Estimated Cost: Rs.27.15 Crore V

Benefitted Area: 7619.65 Ha.

The project proposal was briefly explained by the Chief Engieer (PAO).

This is the Flood Protection Scheme for construction of Jewar Tappal Marginal

Bund on left bank of River Yamuna in districts Aligarh and Gautam Budha Nagar

in U.P. The Scheme has been recommended by G.F.C.C. of MOWR.

After brief discussion the Committee cleared the project.

(Action: Planning Commission).

7. TRI MUHANI KURSELA EMBANKMENT SCHEME (BIHAR)

Estimated Cost: Rs. 19.74 Crore

Benefitted Area: 6636 Ha.

The project proposal was briefly explained by the C.E. (PAO). The scheme envisaged construction of 30.89 Km long embankment from Tri Muhani to Village Mahespur in Bihpur Block of Distt. Bhagalpur for protection of 6636 Ha. of land. The scheme has been recommended by G.F.C.C. of MOWR.

After brief discussion, the Committee accepted the project proposal.

(Action: Planning Commission)

# LIST OF PARTICIPANTS

Country Ministry of Water Descriptor New Della

#### MEMBERS OF COMMITTEE:

#### S/Shr

1	Z. Hasan, Secretary, Ministry of Water Resources, New Delhi	in the Chair
2.	Dr. B.K MittaL, Chairman, CWC, New Delhi.	Member
3.	Dr. S.P.Sinha Ray, Member, CGWB(Representing Chairman, CGWB)	Member
4.	Maheshchander Jt. Advisor, [Representing Adviser -WR], Planning	Member
	commission, New Delhi	
5.	Jatinder Kumar, DS(B&T), MOWR [Representing Financial Adviser]	Member
	MOWR	

7 S.K. Chaudhuri, Chief Engineer, PAO, CWC

Member Secretary

Member

#### 7. Special Invitees:

#### **Central Water Commission**

- 1. Suresh Chandra, Member WP&P, CWC, New Delhi.
- 2. S.K. Das, Member(RM), CWC, New Delhi.
- 3. R.N.P Singh, Chief Engineer, (IMO), CWC, New Delhi.

6. R.K Grover, Director, CEA(Representing Chairman, CEA)

- 4. A.B.Pal, Chief Engineer (PMO), CWC
- 5. R.K.Sharma, Chief Engineer, (M&ERO), CWC, Bhubneshwer.
- 6. Indra Raj, Chief Engineer, (PPO), CWC, New Delhi.
- 7. R.S.Goel, Director (EM), CWC, New Delhi.
- 8. S.K.Banerjee, Director (PA-S), CWC.
- 9. Pradeep Kumar, Director (PA-North), CWC.
- 10. Y.K. Handa, Supertinding Engineer, (Coordn.), Indus Basin, Chandigarh.
- 11. W.M.Tembhurney, Director (PA-C), CWC.
- 12. T.P.Singh, Director (BCD), CWC, New Delhi.
- 13. Ram Saran, Deputy Director (PA-North), CWC.
- 14. R.N.Ray, Deputy Director (PA-North), CWC.
- 15. T.D.Sharma, Deputy Director (PA-S), CWC.
- 16. S.P Garg, Deputy Director, PP©, CWC, New Delhi.
- 17. Rakesh Kashyap, Deputy Director, M&A Dte., CWC, Janipur, Jammu.

#### GFCC, Patna

1.S.K. Sinha, Member (P), GFCC, Patna.

#### **Planning Commission**

1. K.K. Narang, Director, WR, Planning Commission, New Delhi.

#### Ministry of Water Resources

- 1. A.Shekhar, Commissioner (Projects).
- 2. A.D Bhardwai, Sr. Joint Commissioner (Projects).
- 3. M.S. Gupta, Sr. Joint Commissioner, (BM)

# LIST OF PARTICIPANTS

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## THE STATE OF STREET STREET

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\* Jatinder Kuman, 128(15æ ( ), 51(3) R.) Representing Fusional Advisor) - Member

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o. P. K. Grover, Phractor, Cl. Afflequescotting Charman, Cl. A). Member

5 h Chardhur, Chief Lugineer, PAO CWC

Momber Secretary

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#### Special Inviters:

#### Central Water Commission

- Suresh Chandra, Member Witkill, CWC, New Delhi
  - 5 N. Day, Mambert RAL, CWC, New Delhi
- R. N. P. Smehr, Chot Engineer, (IMO), CWC, New Delhi,
  - J. B.Pal, ( Int.) Lugineer (PAIC); UWF
- R le Sharma Chief Engineer, Meclifet o Chie Bhilmeshwer
  - India Raj. Chief Engineer, (PPO) (AC, Sew Delhi,
    - 1 R S. ( noel | Director (EM), C.V.C. Slew Delhi.
      - X 5 K. Hancinca, Duccion (P. 5-3), UWC.
    - Pradocty Lemma: Director (P.4-North), CWC
- 10. \ I. Handa, Superfinding Liganoer, (Coordin.) Indus Hasin, Chandigarh.
  - 11 W M embinance, Director (PA-C), CWC
  - 1.1 T.U. Singh, Lucetter (BCD), CWC, New Della
  - 13. Ram Suran, Deputy Director (P.4-North), CWI
    - [4] R. V. Eax, Deputy Director (P.A. North), CWC.
      - 15 J. D. Sharma, Dieputy Director (Fig. C.W.).
  - 18 S.P. Carg, Deputy Director, Phys. CWC, New Dellar
  - F. Rakesh Kashvap, Deputy Director, vIA, UDic. CWC, Jampur, Jacquin.

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#### Ministry of Water Resources.

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  - (13) Comparison Fig. 15 (1941) 6 (1941)

### **State Government Officers:**

#### Jammu & Kashmir

- 1. M.Y. Hakim, Chief Engineer. Irrigation and Flood Control Deptt.Kashmir.
- 2. S.M. Usman, Executive Engineer, Irrigation Divirsion Soporl Kashmir.

#### **Orissa**

1. B.B.Singh Saman, Chief Engineer, (PPF) Secha Sadan Bhubaneshar.

#### Rajasthan

- 1. G.S Chaudhary, Chief Engineer, Irrigation Deptt., Govt. of Rajasthan, Jaipur.
- 2. N.S. Satsangi, Superintending Engineer, Irrigation Deptt., Govt. of Rajasthan, Jaipur.

# Uttar Pradesh

- 1. R.K.Dewan, Chief Engineer (Ganga), Irrigation Department, Govt. of U.P., Victoria Park, Meerut, U.P.
- 2. Radhay Mohan, Superintending Engineer, Irrigation Department, Govt. of U.P., Meerut.
- 3. B.G. Verma, Executive Engineer, Drainage Division, Meerut.
- 4. A.P Aggarwal, Executive Engineer, Irrigation Construction Division, Meerut.

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    - C. R. G. Varma, Evandier Engineers, Drainage Division Macran
    - 4 A P. Spaniscal, Executive Congress, Irrigation Construction Division, Magnitud

## No. 16/27/2001-PA (N)/ Government of India Central Water Commission Project Appraisal (North) Directorate

407, Sewa Bhawan, R. K. Puram, New Delhi-110 066. Fax-6103561

Date: August 2001.

Sub: 77th meeting of the Advisory Committee for consideration of technoeconomic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 3.8.2001

Summary record of discussions of the above meeting held at New Delhi on 3rd August 2001 is enclosed for information and necessary action please.

Encl.: As above.

(R. C. Jha) Chief Engineer (PAO) & Member Secretary -Advisory Committee

#### Copy to:

## MEMBERS OF THE COMMITTEE:

- 1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
- 1 2. Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.
- Secretary, Department of Power, S. S. Bhawan, New Delhi.
  Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
- 🤿 🗲. Secretary, Ministry of Tribal Affairs, R. No. 603, A-Wing, Shastri Bhawan, New Delhi.
- -> 6. Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
  - Director General, ICAR, Krishi Bhawan, New Delhi. 8. Chairman, CEA, Sewa Bhawan, R. K. Puram, New Delhi.
- 9. Chairman, Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi-110011.
  - 10. Adviser (W.R.), Planning Commission, Yojana Bhawan, New Delhi.
  - 11. Adviser (Power), Planning Commission, Yojana Bhawan, New Delhi.
- 12. Financial Adviser, Ministry of Water Resources, S. S. Bhawan, New Delhi.

#### Special Invitees:

- 1. Member (WP&P), CWC, New Delhi.
- 2. Member (D&R), CWC, New Delhi.
- 3. Member (RM), CWC, New Delhi.
- // Chairman, GFCC, Sinchai Bhawan, Patna 800 015, Bihar.
- 25. Commissioner (Projects), Ministry of Water Resources, New Delhi.
- 6. Commissioner (Indus), Ministry of Water Resources, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
- 7. Commissioner (ER), Ministry of Water Resources, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
- 15 -> 8. Chief Engineer (Indus Basin)/Director (Mon. & Appraisal), CWC, Chandigarh.
  - 9. Chief Engineer (EMO), CWC, New Delhi.
  - 10. Chief Engineer (PMO), CWC, New Delhi.
  - 11. Chief Engineer (PPO), CWC, New Delhi.
  - 12. Chief Engineer (FMO), CWC, New Delhi.
- 13. Chief Engineer, Irrigation & Flood Control, Govt. of J&K, Jammu.
- 17 14 Chief Engineer, PP Cell, Water Resources Department, Govt. of Bihar, Anisabad, Patna.
- 🖟 🤟 15. Chief Engineer, Ranjit Sagar Dam Project, Shahpurkandi Township, Punjab.
- 19 -16. Chief Engineer, Irrigation Deptt., Govt. of Rajasthan, Jaipur.
- 20 > 17. Chief Engineer (Sone), Irrigation Dept., Govt. of U.P., Varanasi, (U.P.).
- 24 -18. Director, Mon. & Appraisal, CWC, Jammu.
  - 19. Director, Project Appraisal (North), CWC, New Delhi.
  - 20. Director, PP (C), CWC, New Delhi.

### Copy for information to:

- 31 Secretary, Irrigation Department, Government of Bihar, Sinchai Bhawan, Patna-800 015.
- 23 > 2. Secretary, Irrigation Department, Govt. of J&K, Jammu-180 001.
- 3. Secretary, Irrigation Department, Govt. of Rajasthan, Jaipur.
- 4. Secretary, Irrigation Department, Government of Uttar Pradesh, Lucknow-226 001 (U.P.).
- 5. Secretary, Irrigation Department, Government of Punjab, Chandigarh.
- 2) -> 6. PPS to Secretary, Ministry of Water Resources, New Delhi.

## SUMMARY RECORD OF DISCUSSIONS OF THE 77<sup>TH</sup> MEETING OF THE ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF IRRIGATION, FLOOD CONTROL AND MULTIPURPOSE PROJECT PROPOSALS HELD ON 3.8.2001

The 77th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Projects proposals was held on 3.8.2001 at 15.00 Hours in the Committee Room of Central Water Commission, Sewa Bhawan, R. K. Puram, New Delhi under the Chairmanship of Shri B.N.Navalawala, Secretary, Ministry of Water Resources. A list of participants is enclosed at Annexure-I.

To start with, the Chairman welcomed the Members of the Committee and officers present and intimated that there are 8 Projects (5 Irrigation, 1 Multipurpose and 2 Flood Control Projects) for which techno-economic viability are to be considered. He further mentioned that a proposal for Revised Procedure for submission of Detailed Project Report has also been submitted, which may be considered first. Thereafter, he requested the Chairman, CWC to present the proposal of Revised procedure for submission of Detailed Project Report before taking up project proposals for discussions. The discussions held and decision taken by the Committee are summarised below:

#### Revised Procedure for Submission of Detailed Project Report.

Briefly describing the present procedure of appraisal of the project, the Chairman, CWC intimated that due to several reasons, often the projects are conditionally cleared by the Advisory Committee, but compliance of those conditions take a lot of time and at times require additional cost provisions resulting in the revision in the cost of the projects even before they are started. In view of this difficulty following two-stage clearance process has now been contemplated.

The concerned State Government, in the initial stage will submit such details e.g., hydrology, irrigation planning etc. (as prescribed in the revised procedure), which are required to establish the soundness of the project proposal. After receipt of the project, CWC will examine and if found acceptable, shall intimate in principle consent for preparation of Detailed Project Report (the revised procedure may please be consulted).

Detailed Project Report alongwith clearance from MOEF, MOTA and concurrence of State Finance Desk will be examined in detail by the different specialized Directorates of CWC/Ministries/other Central Government agencies, etc. After incorporating observations/suggestions, the project proposal shall be put up to the Advisory Committee of MOWR. After appraisal, the project will be cleared. This will be, by and large, like a single window clearance of the project for the State Government.

Secretary, MOWR, stressed the need for revision of appraisal procedure as the present practice is facing problem of repeated approval and revision due to delays in clearance/compliance. He further explained the reasons and efforts made by the Government for early clearance of the project and while informing the gathering that in 1986, under the Chairmanship of Cabinet Secretary, a Committee of Secretaries had recommended Single Window Clearance, he expressed that the revised procedure may work in this direction. The present system will be effective from July 2002. Response from the State Government Officials was very encouraging on the revised procedure of appraisal and they expressed their consent. Thus the proposed revised procedure for submission of detailed project report was unanimously accepted.

(Action: CWC/MOWR)

## 2. Modernisation of New Pratap Canal (New-Medium) - J&K .

Estimated Cost: Rs.21.68 Crore (Year 1997 Price Level + 30 of

Escalation)

GCA: 9028 hectare

Annual Irrigation: 12042 hectare

Chief Engineer (PAO) briefly explained the project proposals. The project was discussed in detail and looking into the age old performance of the project, the Advisory Committee accepted the project subject to the following conditions:

- i) Concurrence of State Finance Desk shall be obtained; and
- ii) Water rates shall be reviewed to fill the gap between the rate for surface water and that for ground water.

(Action: State Govt.)

 Ravi Project Unit-I [Ranjit Sagar [Thein] Dam with Shahpurkandi Dam Project - Upper Bari Doab Canal Hydel Project Stage-II] (Revised Estimate) - (New - Multipurpose) - Punjab

Estimated Cost:

Rs. 5065,48 Crore (June 2000 Price level)

CCA:

348000 Ha.

Power:

645 MW & 168 MW.

Chief Engineer (PAO), CWC, briefly explained the project proposal. Looking into the benefits and increase in productivity, the project was accepted by the Advisory Committee with a condition that Punjab will use the water to the extent of its share i.e. 4.22 MAF till the finalization of report by Rabi Beas Tribunal and the conditions noted below:

#### Ranjit Sagar Dam Project

- (i) Pending Inter-state issue shall be resolved.
- (ii) Release pattern should be submitted to CWC.
- (iii) Timely submissions of environmental safeguard monitoring report shall be ensured.
- (iv) Concurrence of State Finance Department shall be obtained.
- (v) As per TAC note of 1986, J&K is to bear 10% of cost of Ranjit Sagar Dam chargeable to irrigation sector, which at that time was taken as 11.4% of cost of Ranjit Sagar Dam. Subsequently, the cost allocation to irrigation sector was reviewed and enhanced to 20.9% on specific request of Govt of Punjab on the condition that cost chargeable to J&K towards irrigation will be kept as 10% of 11.4% of the cost of Ranjit Sagar Dam. The state Govt of Punjab will have to ensure that additional cost chargeable to irrigation sector will be fully borne by them.

#### Shahpurkandi Dam Project

- (i) Government of Punjab has to honour the views of BBMB for co-basin states.
- (ii) Sharing of Power by Government of Haryana and by Government of Rajasthan will be governed by Supreme Court's decision and will be binding on Punjab Government.
- (iii) The state govt of Punjab will have to ensure that the release pattern of Shahpurkandi project is such that irrigation as well as other

requirements of modernisation project of UBDC, Ravi canal & Kashmir canal of J&K and other unidentified projects of Punjab and other states are fully met with.

- (iv) Concurrence of State Finance Department shall be obtained.
- (v) Comments on design aspects of CWC should be kept into consideration at the time of Design/execution of project.

(Action: State Government)



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## 4. Lining of Channel (New-Medium) - ERM - Punjab

Estimated Cost:

Rs.49.02 Crore

(September 1999 Price Level)

CCA:

9800 hectare

Annual Irrigation:

8330 hectare

After the brief introduction of the project by the Chief Engineer (PAO), the project was taken up for discussion. The representative of Indian Council of Agricultural Research (ICAR) raised doubt on the production of crops in preproject and post-project conditions. The State officials briefly clarified that the yield presented in the project is approved by the State Agriculture Department. Representative of ICAR also mentioned about the loss due to free electricity and water to the farmers. Secretary (WR), clarified that the matter relates to policy of the State Government, as such need not be discussed. The representatives of the Planning Commission raised doubt about the benefits to the farmers of the tail end. The Secretary, Irrigation, Government of Punjab, informed that the Barabandi is presently being practiced in the Punjab, which is a very useful scheme and water will certainly be available to the tail enders. Chief Engineer (PAO) also informed that the scheme of saving water is located at the tail end and hence that will certainly benefit the tail enders.

The project was the accepted by the Committee subject to the following conditions:

- (i) Concurrence for State Finance Desk shall be obtained;
- (ii) Conjunctive use of surface and ground water shall be ensured;
- (iii) Before implementing the project, State Government will carry out the evaluation study to verify upto what extent objectives would be achieved.

(Action: State Govt.)

# Increasing Capacity of Bhupali Pump Canal (New-Major) - U.P.

Estimated Cost: Rs.60.53 Crore (2000 price level)

CCA: 22475 hectare Annual Irrigation: 34605 hectare

Brief introduction of the project was given by the CE (PAO). As for running pump canal considerable amount of electrical power is required, availability of power was discussed in the backward areas of Uttar Pradesh. Water User Association', role in handling the project was also discussed by the members. Chief Engineer – U.P. Irrigation informed that though the running of canal can be handled by the Water User Association' but maintenance of the system cannot be attended by the water User Association'. Looking into expenditure on electricity by Pump Canal System, Secretary (Water Resources) asked the State officials to further explore cheaper alternative and put up the project with such alternatives for clearance. The Advisory Committee deferred the project till compliance.

(Action: State Government)



#### 6. Pun-pun Barrage Scheme (New-Major) - Bihar

Estimated Cost: Rs.102.26 Crore (SOR - 2000 price level)

CCA: 13680 hectare
Annual Irrigation: 13898 hectare

The project proposal was explained by CE (PAO). During discussions representatives of the Planning Commission raised their doubts about initial 26 km reach of the canal without any irrigation benefits. After explanations given by the State Official and detailed discussions, considering geographic conditions and non-availability of water for irrigation in fertile land, the Committee accepted the project subject to the following conditions:

- i) Clearance of environment from the Ministry of Environment and Forest shall be obtained;
- shall be obtained; Concurrence of State Finance Department for the finalized cost of the project shall be obtained;
  - iii) Monitoring of ground water in post project condition shall be attended and conjunctive utilization of water shall be planned in consultation with

- State Ground Water Board to guard against water-logging in the command area;
- iv) Hydrological data observation at the barrage site and collection of reliable catchment rainfall data for firming up the Hydrology at detailed design stage shall be carried out;
- v) Certificate from State Forest Department for non-involvement of forestland in the project shall be furnished; and
- vi) At the time of detailed designs, requisite tests and model studies of the project shall be carried out before construction.

(Action: State Government/CWC)



## 7. Sidhmukh Irrigation Project (Revised Major) - Rajasthan

Estimated Cost: Rs.220.86 Crore (January 2000 Price Level)

CCA: 7619.65 hectare Annual Irrigation: 43214 hectare

The project proposal was briefly explained by the Chief Engineer (PAO). During the course of discussion, Chief Engineer – Rajasthan Government explained that the project is partly being funded by European Union and they have permitted to complete the project upto December 2001 and work in respect of remainder 20,000 hectare of CCA is being funded by NABARD. When asked by the Secretary (Water Resources) regarding status of completion of work in different States in which this project is under implementation the concerned Chief Engineer informed that in Punjab 1% work is pending and in Haryana only lining portion is to be completed. The project was accepted by the Advisory Committee subject to the following conditions:

- (i) Concurrence of the State Finance Department for the estimated cost of the project i.e. Rs. 220.86 Crore shall be obtained and furnished;
- (ii) Restoration work of Bhakra Main Line to the original capacity of 12500 cusecs (354 cumecs) shall be completed and concurrence of Bhakra Beas Management Board shall be obtained;
- (iii) Close network of piezeometers (tube-wells) shall be established in the command area for monitoring the ground water level to assess the effects of proposed irrigation on ground water regime in space and time; and
- (iv) Environmental clearance from Ministry of Environment and Forest shall be obtained.

(Action: State Government)



# 8. Extension of Gomtinagar Protection Bundha upto 4.8 km downstream of Northern Railway Line (New Major) - U.P.

Estimated Cost:

Rs. 99649 Crore

After brief introduction of the project by the CE (PAO), during the discussion, the representative of ICAR raised the issue of the drainage of stagnating water behind the bund. He also mentioned that in such schemes in absence of adequate provision of drainage, water remains standing behind bund for a long period. Chief Engineer, Uttar Pradesh explained that water accumulated behind bund is to be drained through pumps, for which a separate scheme has been contemplated. This scheme has already been approved by the Ganga Flood Control Commission (GFCC), Patna. Looking into the matter and explanation, the committee accepted the project with a condition that the State Government will make arrangement to immediately remove the standing water behind the bund or will make alternate permanent scheme.

(Action: GFCC/State Government)



## Protection to the Right Bank of River Ganga/Padma from downstream of Farakka Barrage to Jalangi, District Murshidabad (New Major) — West Bengal

Estimated Cost:

Rs. 29.4072 Crore

After brief introduction of the project by the CE (PAO), the project was taken up for discussion. During the course of discussion, in a reply to question raised by the Chairman, CWC, Shri Vibhash Kumar, Director, Ganga Flood Control Commission (GFCC), explained that several Committees such as Keshkar Committee and Murthy Committee had already declared this area under very critical erosion. Being a very important scheme, it has already been cleared by GFCC. Chief Engineer (PAO) also explained that the other bank of the river Ganga lies in Bangladesh. Hence, the protection from erosion of right bank of the Ganga is important from geographical as well as international angle. The Advisory Committee accepted the project with the condition that apart from structural measure green belt will also be developed in this area.

(Action: GFCC/State Government)

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

# LIST OF PARTICIPANTS

## MEMBERS OF COMMITTEE:

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1.	B.N. Navalawala, Secretary, Ministry of Water Resources, New Delhi	In the Chair
2.	Suresh Chandra, Chairman, CWC, New Delhi.	Member
3.	S. K. Sinha, Sr. Hydrologists, CGWB [Representing Chairman, CGWB]	Member
4.	Maheshchander Joint Advisor [Representing Adviser -W.R.],	Member
	Planning Commission, New Delhi	
5.	Dr. A.K. Saxena, Deputy Secretary [B & T], Ministry of Water Resources,	Member
	[Representing Financial Adviser]	
6.	B. K Agarwal, Chief Engineer-HPS, CEA [Representing Chairman, CEA]	Member
7.	Dr. D.K.Paul, Additional Director General (IWM), ICAR [Representing	
	Director General (ICAR).	
8.	R. C. Jha, Chief Engineer, PAO, CWC.	Member
		Secretary

# Special Invitees:

## Central Water Commission

- 1. R.Jeyaseelam, Member D&R, CWC, New Delhi.
- 2. S.C. Sud, Chief Engineer, Indus Basin, CWC, Chandigarh.
- 3. A.B.Pal, Chief Engineer (PMO), CWC
- 4. A.K.Mahana, Chief Engineer, (PPO), CWC, New Delhi.
- 5. R.S.Goel, Director (EM), CWC, New Delhi.
- 6. S.K.Banerjee, Director (PA-S), CWC.
- 7. D.S.Khangura, Director (M&A), CWC, Chandigarh.
- 8. Pradeep Kumar, Director (PA-North), CWC.
- 9. Ram Saran, Director (PP-Central), CWC.
- 10. R.R. Sharma, Superintending Engineer, (Coordination), Indus Basin, Chandigarh.
- 11. A.K.Jha, Executive Engineer (M&A), CWC, Jammu.
- 12. R.N. Ray, Deputy Director (PA-North), CWC.
- 13. D.N. Dahiya, Deputy Director (PA-C), CWC.
- 14. S.P Garg, Deputy Director, PP(C), CWC, New Delhi.

## Central Electricity Authority

1. Rajiv Grover, Director-Hydro, Room No. 426, CEA, Sewa Bhawan, R.K.Puram, New Delhi.

# Ganga Flood Control Commission - Patna

1. Bibhas Kumar, Director (MP-I), GFCC, Patna.

## Ministry of Water Resources

- 1. A.C. Gupta, Commissioner (Indus).
- 2. A.D Bhardwaj, Sr. Joint Commissioner (Projects).

## Planning Commission

1. Avinash Mishra, SRO (WR), Planning Commission, New Delhi.

# LIST OF PARTICIPANTS

# MEMBERS OF COMMITTEE:

01		
	Shri	
1.	B.N. Navalawala, Secretary, Ministry of Water Resources, New Delhi	In the Chair
2.	Suresh Chandra, Chairman, CWC, New Delhi.	Member
3.	S. K. Sinha, Sr. Hydrologists, CGWB [Representing Chairman, CGWB]	Member
4.	Maheshchander Joint Advisor [Representing Adviser -W.R.],	Member
	Planning Commission, New Delhi	
5.	Dr. A.K. Saxena, Deputy Secretary [B & T], Ministry of Water Resources,	Member
	[Representing Financial Adviser]	
6.	B. K Agarwal, Chief Engineer-HPS, CEA [Representing Chairman, CEA]	Member
7.	Dr. D.K.Paul, Additional Director General (IWM), ICAR [Representing	
	Director General (ICAR).	
8.	R. C. Jha, Chief Engineer, PAO, CWC.	Member
		Secretary

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## - Planning Commission

1. Avinash Mishra, SRO (WR), Planning Commission, New Delhi.

## State Government Officers:

- Jammu & Kashmir

1. Vinod Coswami, Superintending Engineer, Hydraulic Circle, Kathua (J&K).

· Rajasthan

WELLSON, T

1. J.S Setia, Chief Project Director, SNIP, Irrigation Department, Government of Rajasthan, Hanumangarh District.

2. H.L.Beniwal, Executive Engineer, Irrigation Department, Sidhmukh Irrigation Project, Bhadra (Rajasthan).

- Uttar Pradesh

 Anand Prakash, Chief Engineer, U.P. Irrigation, Govt. of U.P., Canal Colony, Cantt. Road, Lucknow, U.P.

- Bihar

1. S.S.Singh, Chief Engineer, W.R. Department, Government of Bihar, Patna.

- Punjab

- 1. Mrs. S.K.Sandhu, Secretary Irrigation, Room No. 314, Mini Secretariat, Government of Punjab, Sector-9, Chandigarh.
- 2. J.S.Randhawa, General Manager, Ranjit Sagar Dam Project, Shahpurkandi Township, Punjab.
- Narender Sharma, Superintending Engineer, Shahpurkandi Dam Project, Shahpurkandi, Punjab.
- Jai Raj Singh, Executive Engineer, Shahpurkandi Dam project, Shahpurkandi, Punjab.
- Ashok Malhotra, Executive Engineer Lining, Punjab Irrigation Department Chandigarh.

No. 16/27/2001-PA (N)/1526-(SS3)
Government of India
Central Water Commission
Project Appraisal (North) Directorate

407, Scwa Bhawan, R. K. Puram, New Delhi-110 066. Fax-6103561

Date: T. October 2001.

Sub: 78th meeting of the Advisory Committee for consideration of technoeconomic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 24.9.2001

Summary record of discussions of the above meeting held at New Delhi on 24th September 2001 is enclosed for information and necessary action please.

Encl.: As above.

(R. C. Jha) Chief Engineer (PAO) & Member Secretary -Advisory Committee

## Copy to:

#### MEMBERS OF THE COMMITTEE:

- 1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
- 2. Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.
- 3. Secretary, Department of Power, S. S. Bhawan, New Delhi.
- 4. Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
- Secretary, Ministry of Tribal Affairs, R. No. 603, A-Wing, Shastri Bhawan, New Delhi.
- Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi
- 7. Director General, ICAR, Krishi Bhawan, New Delhi.
- 8. Chairman, CEA, Sewa Bhawan, R. K. Puram, New Delhi.
- Chairman, Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi-110011.
- 10. Adviser (W.R.), Planning Commission, Yojana Bhawan, New Delhi.
- 11. Adviser (Power), Planning Commission, Yojana Bhawan, New Delhi.
- 12. Financial Adviser, Ministry of Water Resources, S. S. Bhawan, New Delhi.

### Special Invitees:

- 1. Member (WP&P), CWC, New Delhi.
- 2. Member (D&R), CWC, New Delhi.
- 3. Member (RM), CWC, New Delhi.
- 4. Secretary, Irrigation Deprtt., Govt. of Uttar Pradesh, Lucknow-226001 (U.P.).
- 5. Commissioner (Projects), Ministry of Water Resources, SS Bhawan, New Delhi.
- 6. Commissioner (PP), Ministry of Water Resources, SS Bhawan, New Delhi.
- 7. Commissioner (CAD), Ministry of Water Resources, Krishi Bhawan, New Delhi.
- 8: Chief Engineer (Upper Ganga Basin)/Director (Mon. & Appraisal), CWC, Lucknow.
- 9. Chief Engineer (EMO), CWC, New Delhi.
- 10. Chief Engineer (PMO), CWC, New Delhi.
- 11. Chief Engineer (PPO), CWC, New Delhi.
- 12. Engineer-in-Chief, U.P. irrigation, Govt. of U.P., Lucknow (U.P.).
- Chief Engineer (Monitoring & Co-ordination), External Aided Projects, Irrigation Dept., Govt. of U.P., Parikalp Bhawn, Alambagh, Luknow, (U.P.).
- 14. Director, Project Appraisal (North), CWC, New Delhi.
- 15. Director, PP (N&S), CWC, New Delhi.

## Copy for information to:

1. PPS to Secretary, Ministry of Water Resources, New Delhi.

SUMMARY RECORD OF DISCUSSIONS OF THE 78<sup>TH</sup> MEETING OF THE ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF IRRIGATION, FLOOD CONTROL AND MULTIPURPOSE PROJECT PROPOSALS HELD ON 24-09-2001.

The 78th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood control and Multipurpose project proposals was held on 24-09-2001 at 15.00 hours in the Committee Room of Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi under the chairmanship of Shri B.N. Navalawala, Secretary, Ministry of water resource for examination/clearance of the U.P. Water Sector Restructuring Project (UPWSRP). A list of participants is enclosed at Annexure- I

The Chairman welcomed the Members of the Committee, their representatives and other officers present. The Chairman also welcomed Shri D.P. Singh, Principal Secretary, Shri Ashok Kumar, Secretary (Irrigation), Shri N.C.Maheshwari, E&C and other officers from Government of Uttar Pradesh and requested Shri D.P. Singh to present the project proposal.

Before introducing the project proposal Shri D.P. Singh, Principal Secretary, Government of Ultar Pradesh informed the Committee that after creation of Ultaranchal, other than Ghaghra, Rapti and Saryu Barrages all Water Resource Structures are now located in Ultaranchal and present State of U.P. is more or less a dependent on Thermal Power except for a few Hydel Projects like Rihand and Obra. He further added that though Irrigation Potential of 77.4 Lac hectare has already been created through canals and 1.4 Lac hectare is under creation in Saryu Nahar Pariyojna, there is a gap between potential development and actual utilization. Further, not much improvement has so far been made in tackling the problem of water-logging/drainage congestion. When the river Ganga is in high stage of discharge, the tributaries of this river flowing through eastern UP and Bihar get backed-up and the area suffers from flood and subsequently a large part of the area suffers from water-logging/drainage congestion. Thus, there is a need of modern approach to effectively tackle the problem.

The Present restructuring Project aims at -

- (1) Increasing the water availability.
- (2) Sustainability of Irrigation and
- (3) Improving the living standard of most backward eastern districts of U.P.

He briefly discussed the backwardness of area, high population density and requirement of optimization of resources for upliftment of the standard of people living in these backward districts of U.P.

He further stated that to modernize, optimize and improve the existing system, in the UPWSRP Multi-dimensional institutional reforms in planning and management have been duly stressed in addition to the physical rehabilitation works for overall developments including development of small Hydro on Canals. Wet Land Management, Rain Water Harvesting etc.

He informed that the State Water Board (SWB) was created in 1996 and the State Water Resources Agency (SWRA) and State Water Resources Data & Analysis Centre (SWRDAC) have now been created. The State water Resources Agency is a multidisciplinary organization and officers from various disciplines like Water Resources, Agriculture, Economics, Social Science etc. shall be drawn on deputation from various State, Central Agencies. There will not be any permanent staff. This Agency will be responsible for overall planning & development of Water Sector covering every aspect of it. To optimize the water resources wet land has been identified for improvement, all low lying areas, which get flooded, will be improved, rain water harvesting will be practiced at a larger scale.

SWRDAC will be responsible for data collection and retrieval at a push button distance. The problem being faced by officers at present is that water users are not providing information about uses of water by them whenever required. This Agency will count use of every drop of water. It will help in implementing the policy of Government that "Polluters must Pay".

The Basin wise organisation will be created with the intention that the heads will be made responsible and they will ensure that the system earn anticipated revenue. The Government will allow such organisation to keep some part of revenue for running and maintenance of the system. This will make sub-basins self-sufficient. The staffing will be made from the existing staff and from retired senior officials with minimum 25 years experience.

The low productivity of the agriculture produce will also be taken care of by conducting extension programmes through Agriculture Department. Through these extension programmes Water User Association (W.U.A.) will be framed for the benefit of farmers community.

All stakeholders will be connected through computers with this department, which will help in timely attending complaints and maintenance of priorities.

Principle Secretary informed about the formation of State Water Tariff Regulatory Commission (SWTRC). On enquiry from the Chairman, it was explained that this Commission shall be independent and its recommendations will be binding in nature.

It was informed that out of total cost of Rs. 663.41 Crore for Phase-1 of UPWSRP drains parallel minor may be difficult to construct due to land acquisition problem. However, a provision of Rs 100 Crore has been made for this item.

The Chairman enquired about the procedure to be followed by U.P. Government on State Water Board's decisions. After brief discussions the Chairman suggested that Board's decision should be directly put-up to the Cabinet for approval so that decisions taken are not lost/delayed in departmental occdures.

The Principal Secretary also informed that quality control of the works is also proposed to be looked after by an independent technical auditing authority.

Director E.I.A. raised the issued of clearance of environmental aspects. The CE (PAO), CWC clarified that project does not propose any new irrigation scheme and the MOE&F has already communicated that prima facie they do not have any objection for the proposal. However, Detailed Environment Assessment Report, when prepared, shall be subsequently submitted to MOE&F.

Representatives of Planning Commission raised the following issues:

- (1) Though final expenditure on completed Sarda Sahayak Pariyojna has been noted in the Planning Commission, the clearance of Saryu Pariyojna needs be taken after complying with the observation of the Advisory Committee in respect of clearance of MOE&F;
- (2) The area being backward, installation of electronic gadgets as planned may not be successful;
- Lot of non-irrigation related activities has been included in the project;
- (4) VRS is a non-plan component and it cannot form a part of plan scheme.

CE (PAO) explained that the observation in respect of the clearance of Saryu Pariyojna has already been noted as one of the conditions subject to which the project is proposed to be cleared. He further added that one time expenditure on institutional/departmental reforms, instrumentation, etc.

should not be a problem as even when these one-time expenses when counted under Phase-1 alone, the B.C. ratio of 1.86 and IRR of 17% for the scheme are very attractive,

The Chairman emphasized on detailed studies and planning for consumptive use of Water Resources. Representative of C.G.W.B informed that by adopting consumptive use of water in these commands, water table could be considerably lowered, which would reduce waterlogging problem. State officials agreed to consult C.G.W.B at the time of execution of project.

After discussions, the project was techno-economically accepted and recommended for investment clearance subject to close attention of conditions mentioned below:

- (1) The State Government should prepare plan and suitably allocate fund for drinking water allocation under normal and drought conditions.
- (2) The state should submit annual action plan and quarterly progress report for project implementation to CWC for monitoring.
- (3) Proposal for ground water extraction for irrigation and drinking water purposes should be formulated in consultation with the Central Ground Water Board. State Government should ensure monitoring of ground water condition in project area and to plan for conjunctive utilization in consultation with the State Ground Water Board to guard against waterlogging in the command area.
- (4) The rehabilitation of Irrigation and drainage works which are reported to have been constructed before 1989 and damaged should only be considered and distribution network and drainage works, which are under construction as part of Saryu Nahar Pariyojana need not be included for rehabilitation.
- (5) Government of Uttar Pradesh should ensure that water planning on Saryu Nahar Pariyojana as approved by the TAC in January 2000, considering conjunctive use of surface and ground water with a provision of 3600 tube wells should not be altered during rehabilitation works.
- (6) The state should revise the surface water rates such that there is not much difference between the rates of surface and ground water to discourage the excessive use of surface water to avoid water logging.
- (7) The State Government shall attend to condition of clearance of MOE&F in respect of 245.28 hectare of forest land involved in Saryu Nahar Pariyojna.
  - (8) Government of Uttar Pradesh should ensure timely fund allocation to all the components under the project to ensure full and timely utilization of World Bank credit.
  - (9) The Government of Uttar Pradesh should monitor the yield vis-à-vis yield proposed for subsequent assessment of the project.
  - (10) Before implementing the project Government of Uttar Pradesh will carry out Bench Mark Studies to verify non-structural requirements and extent to which objectives of the scheme would be achieved.
  - (11) The CWC will be kept informed about the studies made by the Government of UP and consultants, changes in the scope/cost, if any.
- -7(12)Concurrence of State Finance Department for the finalized cost of the project will be obtained.
  - (13) A Project Implementation Committee shall be set-up in C.W.C with representatives from C.W.C, Water Management Wing of M.O.W.R, Planning Commission and State Government Officials to review the project status and progress from time to time.
- - (15) The State Government would pursue with the Planning Commission for according investment clearance.

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

# LIST OF PARTICIPANTS

## MEMBERS OF COMMITTEE:

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U	1501	41.4

B.N. Navalawala, Secretary, Ministry of Water Resources, New Delhi
 Suresh Chandra, Chairman, CWC, New Delhi
 Dr. S.P. Sinha Ray, Member, CGWB [Representing Chairman, CGWB]
 Member
 Member
 Member
 Member

 Maheshchander Joint Advisor [Representing Adviser –W.R.], Planning Commission, New Delhi

R.K.Grover, Director, CEA [Representing Chairman, CEA]
 R. C. Jha, Chief Engineer, PAO, CWC.

Member Member Secretary

# Special Invitees:

## - Central Water Commission

- 1. R.Jeyaseelam, Member D&R, CWC, New Delhi.
- 2. A.B.Pal, Chief Engineer (PMO), CWC
- 3. R.K.Khanna, Director (EIA), CWC.
- 4. Pradeep Kumar, Director (PA-North), CWC.
- 5. S.P.Singh, Director (PP-N&S), CWC.
- 6. Ashok Gautam, Director (Economics), CWC.
- 7. S.R. Jagwani, Director (Mon. & Appraisal), CWC, Jahnavi Sadan, 21/496, Indira Nagar, Lucknow (U.P.).

# - Ministry of Water Resources

- 1. A.C.Tyagi, Commissioner (PP).
- 2. M.K.Sharma, Commissioner (CAD).
- 3. C.S.Jha, Sr. Joint Commissioner (CAD).
- 4. Bhajan Singh, Deputy Secretary.

#### - Planning Commission

1. Avinash Mishra, SRO (WR).

# State Government Officers:

# - Uttar Pradesh

- 1. D.P.Singh, Principal Secretary, Irrigation, Government of Uttar Pradesh, Yojna Bhawan, Lucknow (U.P.).
- 2. Ashok Kumar, Secretary Irrigation, Government of Uttar Pradesh, Bapu Bhawan, U.P. Secretariat, Lucknow (U.P.).
- 3 N.C. Maheswari, Engineer-in-Chief, U.P. Irrigation Department, Lucknow (U.P.).
- Ramesh Kumar Jain, Chief Engineer, Parikalp Bhavan, U.P. Irrigation Department, Lucknow (U.P.).
- 5. Jag Roshan Lal, Adviser, U.P. Irrigation Department, Lucknow (U.P.).
- Deep Kumar Gupta, Superintending Engineer, Water Sector, Rest. Circle, Irrigation Department, Pakri Ka Pul, Alaribagh, Lucknow (U.P.).
- V.K. Verma, Superi tending Engineer, Office of the Engineer-in-Chief, UPID, Lucknow (U.P.).
- 8. -Prashant Kumar, Senior Agronomist, P.P.U., Parikalp Bhawan, Lucknow (U.P.).
- K.S. Tomar, Executive Engineer, Purchase & Liaison Office, Okhla, New Delhi.

# No. 16/27/2002-PA (N)/ 956 - 1007 Government of India Central Water Commission

Project Appraisal (North) Directorate

407, Sewa Bhawan, R. K. Puram, New Delhi-110 066. Fax-6103561

Date: Jot June 2002.

Sub: 79th meeting of the Advisory Committee for consideration of technoeconomic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 24.05.2002

Summary record of discussions of the above meeting held at New Delhi on 24th May 2002 is enclosed for information and necessary action please.

Encl.: As above.

(R. C. Jha)
Chief Engineer (PAO) &
Member Secretary Advisory Committee

#### Copy to:

#### MEMBERS OF THE COMMITTEE:

- 1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
- 2. Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.
- 3. Secretary, Department of Power, ShramShakti. Bhawan, New Delhi.
- 4. Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
- 5. Secretary, Ministry of Tribal Affairs, R. No. 603, A-Wing, Shastri Bhawan, New Delhi.
- Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
- 7. Director General, ICAR, Krishi Bhawan, New Delhi.
- 8. Chairman, CEA, Sewa Bhawan, R. K. Puram, New Delhi.
- 9. Chairman, Central Ground Water Board, Jam Nagar House, Man Singh Road, New Delhi-110011.
- 10. Adviser (W.R.), Planning Commission, Yojana Bhawan, New Delhi.
- 11. Adviser (Power), Planning Commission, Yojana Bhawan, New Delhi.
- 12. Financial Adviser, Ministry of Water Resources Shram Shakti Bhawan, New Delhi.

#### Special Invitees:

- 1. Member (WP&P), CWC, New Delhi.
- 2. Member (D&R), CWC, New Delhi.
- 3. Member (RM), CWC, New Delhi.
- 4. Commissioner (Projects), Ministry of Water Resources, New Delhi.
- Commissioner (ER), Ministry of Water Resources, CGO Complex, Block-11, 8<sup>th</sup> floor, Lodhi Road, New Delhi.
- 6. General Manager. Brahmaputra Board, Basistha, Guwahati-781 029.
- Chief Engineer flood control Department Govt. of Assam, Chandmari, Guwahati-781003.
- 8. Chief Engineer (Upper Ganga Basin)/Director (Mon. & Appraisal), CWC,Janhavi Bhawan,21/496,Indera Nagar, Lucknow.UP-2260616.
- 9. Chief Engineer (Ganga), Irrigation Department, Govt of U.P., Victoria Park, Meerut, Uttar Pradesh.
- Chief Engineer (C&SR), Cauvery & Southern Rivers, CWC, N-10, R.K.Nagar, Singhanallu, P.O. Coimbatore-641005 (Tamil Nadu).
- 11. Chief Engineer (MER), Mahanadi & Eastern Rivers, CWC, Plot No. 655, Sahid Nagar, Bhubneshwar-751007 (Orissa).
- 12. Chief Engineer (Mon-S), CWC, F-Wing, 3<sup>rd</sup> floor, Kendriya Sadan, 17<sup>th</sup> Main-II Block, Koramamgala, Banglore-560034.
- 13. Chief Engineer (B&BB), Brahmaputra & Barak Basin, CWC, Maranatha Pohkseh, P.O. Umpling, Shillong-793006.
- 14. Chief Engineer (EMO), CWC, New Delhi.
- 15. Chief Engineer (PMO), CWC, New Delhi.
- 16. Chief Engineer (Monitoring (C))/Director (M&A), CWC, Nagpur.
- 17. Chief Engineer (FMO),/Director FM-2, CWC, New Delhi.
- 18. Chief Engineer, Public Works Department, Water Resourses Organisation, Govt of Tamil Nadu, Madurai Region, Madurai-2
- Chief Engineer, Mahi Bajaj sagar project, Govt of Rajasthan, Post & Dist Banswara, Rajasthan.
- 20. Director (Tech). OSD(ISM), ID&R, Govt of Rajasthan Sinchai Bhawan JLN Marg Jaipur.
- Chief Engineer &Basin Manager, Lower Mahanadi Basin, Sechai Sadan, Ministry of Water Resourses, Govt of Orissa, Bhubaneshwar, Orissa.
- 22. Chief Engineer, Irrigation (N), Club Road, Belgaum, Karnataka-590001.
- 23. Chief Engineer, KNNL Upper Tunga Project Zone, Near Circuit House, Sagar Road, Shimoga, Karnataka-577202
- 24. Chief Engineer, Sinchan Sewa Bavan, Shivaji. Nagar, Amravati, Pune, Maharashtra-444603
- 25. Chief Engineer (Sone), Irrigation Dept., Govt. of U.P., Varanasi (U.P.).
- 26. Director, Project Appraisal (North), CWC, New Delhi.
- 27. Director, Project Appraisal (south), CWC, New Delhi.
- 28. Director, Project Appraisal (Central), CWC, New Delhi.
- 29. PS to Chief Engineer, PAO, CWC, New Delhi.

#### Copy for information to:

- Secretary, Department of Flood Control, Government of Assam, Chandmari, Guwahati-781003
- Secretary, Irrigation Department, Govt. of Karnataka, MS Building, Dr Ambedkar Veedhi, Bangalore-560001
- Commissioner & Secretary, Irrigation Department, Govt. of Orrissa, Bhubaneshwar-751001
- Secretary, Irrigation Department, Government of Uttar Pradesh, Lucknow-226 001 (U.P.).
- 5. Secretary, PWD &Irrigation, Government of Tamil Nadu, Chennai-600009.
- 6. Secretary (Irrigation ), Government of Maharashtra Mantralaya, Mumbai-400032...
- Principal Secretary, Govt of Rajasthan, Irrigation, CAD& WU Department, Secretariat Jaipur, Rajasthan.
- Managing Director, KNNL, 4<sup>th</sup> Floor, Coffee Board Building, Ambedakar Veedhi, Bangalore-1
- 9. OSD to Minister, Ministry of Water Resources, Shram Shakti Bhawan New Delhi.
- 10. PPS to Secretary, Ministry of Water Resources, Shram Shakti Bhawan New Delhi.

# ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF IRRIGATION, FLOOD CONTROL AND MULTI-PURPOSE PROJECT PROPOSALS

SUMMARY RECORD OF DISCUSSIONS OF THE 79<sup>TH</sup> MEETING HELD ON 24<sup>th</sup> May, 2002.

The 79<sup>th</sup> meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals was held on 24.5.2002 at 1500 hrs in the Committee Room of Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi under the Chairmanship of Shri B.N. Navalawala, Secretary, Ministry of Water Resources. A list of participants is enclosed at Annexure-I

The Chairman welcomed the members of the Committee, their representatives and other officers present and intimated that techno-economic viability of 14 projects (Medium-6, Major-5 and Flood Control-3) are to be considered in the meeting. He then requested Member-Secretary to put up the projects in agenda. Discussions held and decisions taken by the Committee on the agenda items are summarised below:

# 1. PROVIDING LINK CHANNEL FOR EASTERN YAMUNA CANAL, i.e. HATHNIKUND LINK CHANNEL (REVISED MAJOR), UTTAR PRADESH

Estimated Cost

Rs.36.43 Crore (June 2000 Price Level)

The Chief Engineer (PAO), CWC briefly explained the project proposal. Advisor (WR), Planning Commission wished to know the reasons for increase in cost from Rs.22.44 crore to 36.43 crore within one or two years. The concerned Chief Engineer, Government of UP explained that the increase in the estimated cost of the project is due to changes in design parameters on the basis of model studies, changes in schedule of rates and the project would be completed within this cost.

The Advisory Committee accepted the project proposal subject to concurrence of the State Finance Department.

## 2. BHUPALI PUMP CANAL (NEW MAJOR)- ERM - UTTAR PRADESH

**Estimated Cost** 

Rs.60.53 Crore (2001 Price Level)

CCA
Annual Irrigation

22475 ha 34605 ha

The Chief Engineer (PAO) briefly introduced the project proposal. Recalling the discussions held on the same project in 77<sup>th</sup> meeting, the Chairman desired to know the position regarding compliance of the observation of the Advisory Committee. The CE(PAO) explained that in the 77<sup>th</sup> meeting, the Advisory Committee had suggested to examine a few alternatives to the proposal and the same has been attended to while resubmitting the proposal. The Advisor, Planning Commission expressed his doubt about the high figure of IRR i.e. 34% when BC ratio is 1.56. In his opinion, the IRR has been calculated on erroneous phasing out of expenditure. The project authority agreed to recheck calculation for IRR.

The Committee accepted the project proposal subject to submission of revised calculation for IRR and concurrence of the State Finance Department.

### 3. PATHRAI DAM PROJECT (REVISED MEDIUM)- UTTAR PRADESH

Estimated Cost : Rs.31.66 Crore (2001 Price Level)

CCA : 3509 ha Annual Irrigation : 2998 ha

The Chief Engineer (PAO) briefly introduced the project proposal and explained that though the BC ratio and IRR are 1.12 and 9% respectively, the benefited area being drought prone, the project can be accepted. The Chairman wished to know whether any tribal population is displaced. The concerned Chief Engineer, Government of UP confirmed that there is no tribal displacement in the project.

The Committee accepted the project proposal subject to concurrence of State Finance Department.

### 4. LAL NALLA IRRIGATION PROJECT (MEDIUM) - MAHARASHTRA

43.61

Estimated Cost : Rs.44.22 Crore (1999-2000 Price Level)

CCA : 6850 ha Annual Irrigation : 7020 ha

The Chief Engineer (PAO) briefly explained the project proposal. The Chairman desired to know the extent of tribal families likely to be affected from the project. The representative of Government of Maharashtra informed that 43 tribal families involving 224 persons are likely to be displaced.

After brief discussions, the Committee accepted the project proposal subject to the conditions mentioned below:

- (i) Approval of R&R Plan by Ministry of Tribal Affairs.
- (ii) Concurrence of State Finance Department.
- (iii) Conjunctive use of ground water and monitoring of ground water levels in consultation with GSDA.

## TAJNAPUR LIFT IRRIGATION PROJECT PHASE-1 (MEDIUM) – MAHARASHTRA

Estimated Cost : Rs 23.46 Crore (1997 Price Level)

CCA : 2744 ha Annual Irrigation : 3622 ha

The Chief Engineer (PAO) introduced the project and intimated that the works on the project are already in progress and about 46% works have been completed till March 2001 after obtaining concurrence of State Finance Department. The Advisor(WR), Planning Commission opined that the proposed lifting of water would further reduce the water availability in the irrigation command of Jayakwadi reservoir. The CE(PAO) explained that the proposed lifting of water for the Tajnapur Lift Irrigation Project is in fulfilment of a commitment to supply water to the oustees displaced during construction of Jayakwadi reservoir. The representative of Government of Maharashtra explained that a storage of 109.8 hm<sup>3</sup> had already been earmarked for this Lift Irrigation Scheme in the Jayakwadi reservoir, out of which 43.11 hm<sup>3</sup> is to be lifted under phase-I. The Chairman advised that the concern about shortage of water availability in Jayakwadi reservoir should be considered while finalising phase-II of the scheme.

## After discussions, the Advisory Committee accepted the project proposal.

# 6. HARANG SUB-BASIN DRAINAGE DEVELOPMENT SCHEME (REVISED MAJOR) – ASSAM

Estimated Cost : Rs.30.49 Crore (2001 Price Level)

The Chief Engineer (PAO) explained that the project was first formulated by Brahmaputra Board in 1989 for an estimated cost of Rs 4.9 crore which was first revised to Rs 10.81 crore in 1995-96 and the present proposal at an estimated cost of Rs.30.49 crore is at 2001 Price Level. He further informed that the scheme was cleared by MoEF as a Pilot proposal in June 1990. Shri M.L. Goyal, Commissioner (ER), MoWR intimated that the project was scheduled to be completed in August 2002 but the same would now be completed by December 2003. The representative of the Government of Assam intimated that the main reasons for increase in cost are changes in design parameters, increase in the cost of land acquisition and price escalation. The Commissioner(ER) intimated that the project is under Central Sector.

The Advisory Committee considered and accepted the project proposal with following two observations:

- (i) In future, the central sector scheme should be routed through SFC/EFC memo and no separate investment clearance from Planning Commission should be sought.
- (ii) No further time and cost over run should be allowed for this project.

## SALANDI SANSKAR PROJECT – ORISSA

Estimated Cost : Rs.99.14 Crore (1999-2000 Price Level)

CCA : 7111 ha

The Chief Engineer (PAO) explained that the Salandi Sanskar Project is basically a flood protection scheme for raising and strengthening of embankment along two branches of the Salandi river but the area under command of two natural canals emanating from the river are also expected to stabilise. The Advisor(WR), Planning Commission wished to know the sector under which the project will be considered. The concerned Chief Engineer, Government of Orissa explained that the project has been considered under flood sector but it is going to stabilise irrigation in 7111 ha of CCA. By virtue of this feature, in his opinion, the project is multipurpose in nature. The Chief Engineer (PAO) informed that in case, the project is considered under flood sector alone, the project cannot qualify for exemption from environmental clearance as intimated by MoEF. However, since irrigation benefits are also accruing, MoEF can be reapproached for reconsideration. The Chairman, Advisory Committee was of the view that this issue can be sorted out by the project authorities with MoEF and the project can be accepted subject to environment clearance.

Accordingly, the Advisory Committee accepted the project proposal subject to the conditions given below:

- Concurrence of State Finance Department, Technical Advisory/Flood Control Board.
- (ii) Environmental clearance of MoEF,

# 8. PURNA RIVER PROJECT (MEDIUM) - MAHARASHTRA

Estimated Cost : Rs.123.79 Crore (2000-2001 Price Level)

CCA : 7843 ha Annual Irrigation : 7530 ha

The main features of the scheme were explained by the Chief Engineer (PAO). Advisor(WR), Planning Commission observed that the inter-state aspect has not been clearly spelt out and wanted to know the extent of submergence. The representative of the Government of Maharashtra explained that the area under submergence falls both in Maharashtra and MP and the inter-state issues between these states have been sorted out by the Inter-State Control Board.

After discussions, the Advisory Committee accepted the project proposal subject to the following conditions:

Concurrence of the State Finance Department for the updated cost.

(ii) Monitoring of ground water levels in the pre and post irrigation condition and conjunctive use of surface and ground water.

## 9. IRUKKANGUDI RESERVOIR PROJECT (MEDIUM) - TAMIL NADU

Estimated Cost : Rs.72.00 Crore (2000-01 Price Level)

CCA : 4229 ha
Annual Irrigation : 4229 ha

The Chief Engineer (PAO) introduced the Project and explained that the proposal is benefiting drought prone area. Advisor(WR), Planning Commission observed that the irrigation efficiency of 75% adopted for the project is too high. While expressing similar views on the irrigation efficiency, Chairman, Advisory Committee also felt that the irrigation should be more extensive than intensive, particularly considering that the area being drought prone. Both the above aspects were discussed at length in which the State Officials and representative from Ministry of Agriculture also expressed their views.

It was then decided that the project may be deferred and resubmitted by the State Government after review of irrigation efficiency and cropping pattern with a view to provide extensive irrigation.

## 10. MAHENDRATANAYA IRRIGATION PROJECT (NEW MEDIUM) - ORISSA

Estimated Cost : Rs.100.98 Crore (2000-01 Price Level)

CCA : 7940 ha Annual Irrigation : 9504 ha

The Chief Engineer (PAO) introduced the Project. The Project features were discussed including submergence and inter-state aspects. Finally, the Advisory Committee accepted the project proposal subject to following conditions:

- (i) Submission and approval of RR Plan from Ministry of Tribal Affairs.
- (ii) Forest clearance from MoEF for submergence of 192 ha, of forest land.

- (iii) Monitoring of ground water levels in the post-irrigation stage, preparation of ground water utilization plan in consultation with the State Ground Water Department and conjunctive use of ground and surface water.
- (iv) Concurrence of the State Finance Department for the revised cost.
- (v) Establishment of hydrological observation stations at dam site and collection of hydrological data to firm up hydrological parameters at construction stage.

## 11. MARKANDEYA RESERVOIR PROJECT (NEW-MAJOR) - KARNATAKA

Estimated Cost : Rs. 209.85 Crore (1999-2000 Price Level)

CCA : 19105 ha
Annual Irrigation : 19105 ha

The Chief Engineer (PAO) explained the project proposal. The Chairman, Advisory Committee enquired about the status of clearance of the Project from MoEF. State Officials indicated that this has been taken up with the MoEF and is being pursued. Since some Tribal population is affected, it was discussed and agreed that R&R plan has to be prepared and got cleared from the Ministry of Tribal Affairs. When queried regarding State Finance Concurrence, the State Officials clarified that this is yet to be obtained for the estimated cost of Rs 209.85 crore. Chairman, CWC suggested that possibility of Hydro Power Development may also be looked into. This was agreed to by the State Officials.

After discussion, the project proposal was accepted subject to the following conditions.

- (i) Environmental and Forest Clearance from MoEF.
- (ii) Submission and approval of RR Plan from Ministry of Tribal Affairs.
- (iii) Study to explore possibility of hydropower generation.
- (iv) Observations of CGWB to be complied with.
- (v) Concurrence of State Finance Department for the estimated cost.

## 12. UPPER TUNGA PROJECT (NEW-MAJOR) - KARNATAKA

Estimated Cost : Rs. 1052.33 Crore (2000-01 Price Level)

CCA : 94698 ha Annual Irrigation : 80494 ha

The Chief Engineer (PAO) gave the background of technical aspects of the project and explained that the proposal is benefiting drought prone areas and has been found to be techno-economically viable. However, while introducing the project, he drew specific attention to the following constraints in environmental clearance to the project as communicated by the Ministry of Environment and Forests vide their letter No. J-15012/14/99-IA-I dated 13.5.2002

- (i) 49.26 hectare area of Shettihalli Sanctuary is involved.
- (ii) Likely complete submergence of Mandagadde sanctuary
- (iii) A study by Asian elephant Conservation Centre had indicated drastic effects on wildlife due to canal excavation.

The Managing Director, KNNL submitted that as regards diversion of forest lands for UTP, the said letter of MoEF does not give the full picture. He submitted that the State

Government had sent a detailed report long back allaying the fears regarding adverse effects on flora & Fauna and had requested Central Government for reconsideration. In response there the Central Government had already referred the matter to the Indian Board for Wild Lite (IBWL) and based upon the directions of IBWL, a high level team comprising Secretary to Government of India, MoEF and others had already inspected the said area recently. The Managing Director, KNNL mentioned that the matter was under review by the Central Government and State Government was confident of resolution of the issues with the MoEF and sought techno-economic clearance of the project subject to resolution of the same. Representative of MoEF was not present to clarify the status.

On the basis of the above letter of MoEF dated 13.5.2002, the Chairman, Advisory Committee observed that the project is not being considered for Environmental Clearance by MoEF at all and the matter has to be sorted out first by the Project Authorities with MoEF.

In view of the above, it was decided to defer the project proposal till the matter regarding environmental clearance is sorted out with MOEF. While resubmitting the project proposal, the project authorities should also attempt to increase the intensity of irrigation.

## 13. AVULSION OF BRAHMAPUTRA AT DHOLLA HATIGHULI - ASSAM

Estimated Cost : Rs 13.71Crore

The Chief Engineer (PAO) introduced the project proposal and intimated that the problem of avulsion and related problem of erosion of tea gardens, villages, fertile land, etc were studied by an Expert Committee, which suggested various ancillary anti-erosion measures to be implemented in four phases. He further clarified that in the present proposal, works under Phase-I have been considered on the basis of recommendations of the Expert Committee and the recommendations of the 32<sup>nd</sup> Special TAC of Assam Flood Control Department and main provisions are for Pilot channels, Permeable spurs, Temporary guide bund to anchor these spurs and construction of Saikhowa Retirement bund near Hatighuli village. The Commissioner (ER), MoWR informed the Advisory Committee that the Expert Committee had suggested all these phase-I works to be completed in one working season. The concerned Chief Engineer, Government of Assam confirmed that the works would be completed in one working season as advised.

After discussions, the scheme was accepted by the Advisory Committee.

# 14. MAHI BAJAJ SAGAR PROJECT, UNIT-II : CANAL (REVISED MAJOR) - RAJASTHAN

Estimated Cost : Rs 538.58 Crore (2000 Price Level)

CCA : 80,000 ha Annual Irrigation : 71,200 ha

The Chief Engineer (PAO) introduced the revised proposal of Unit-II of the project. He intimated that the construction of this project was started in Pre-Fourth Five Year Plan and works pertaining to Unit-I and Unit-III have already been completed long back and about 80 to 90% of the works of Unit-II: Canals have also been completed. The Chairman, Advisory Committee wished to know the final schedule of completion. The concerned Chief Engineer, Government of Rajasthan informed that the balance works are likely to be completed by March 2005.

After discussions, the Advisory Committee accepted the project proposal subject to:

- (i) Concurrence of the State Finance Department for the estimated cost.
- (ii) Completion of remaining work by 2005, failing which TAC clearance would automatically lapse.
- (iii) Establishment of a Joint Inter-State Control Mechanism for regulation of uses of Mahi water in the co-basin states.
- (iv) Concurrence of State Agriculture Department for the proposed cropping pattern.

\*\*\*

# LIST OF PARTICIPANTS

# MEMBERS OF COMMITTEE:

S/Shri	
1. B.N.Na alawala, Secretary, Ministry of Water Resources, New Delhi.	In the Chair
2. Suresh Chandra, Chairman, CWC, New Delhi.	Member
3. A. Sekhar, Advisor (WR), Planning Commission, New Delhi	Member
4. A.D.Joseph, Suptdg. Hydro geologist, CGWB [Representing	Member
Chairman, CGWB).	
5. Niranjan Pant, JS & FA, Ministry of Water Resources, New Delhi.	Member
6. Dr. D.K.Paul, Principal Scientist (WM), ICAR [Representing Director	Member
General (ICAR).	
7. R. C. Jha, Chief Engineer, PAO, CWC.	Member
·	Secretary

# Special Invitees:

## - Ministry of Water Resources

- 1. M.L.Goyal, Commissioner (ER), MOWR, New Delhi.
- 2. A.K.Saxena, Deputy Secretary, MOWR, New Delhi.

# - Planning Commission

1. Mahesh Chander, Joint Advisor, Planning Commission, New Delbi.

## - Central Water Commission

- 1. R.N.P.Singh, Chief Engineer, CWC, Bhubneshwar.
- 2. A.B.Pal, Chief Engineer (PMO), CWC
- 3. B.S.Ahuja, Chief Engineer, (EMO), CWC, New Delhi.
- 4. V.R.Shastry, Chief Engineer (HSO), CWC, New Delhi.
- 5. Manohar Singh, Chief Engineer (MCO), CWC, Nagpur.
- 6. S.K.Banerjee, Director (PA-S), CWC.
- 7. W.M.Temburney, Director (PA-C), CWC.
- 8. S.K.Srivastava, Director (PA-N), CWC.
- 9. C.P.Singh, Director (FM II), CWC.
- 10. R.D. Yadav, Director (FFM), CWC.
- 11.A. Mahendran, Director (Appraisal), Nagpur.
- 12.T.M. Venugoplan, Director (Mon), CWC.
- 13. S.R. Jagwani, Director (M&A), CWC, Lucknow.
- 14.B.S. Varshney, Director (R&R), CWC.
- 15. Pradeep Kumar, SE (Planning Circle), CWC, Faridabad.
- 16. D.N. Dahia, Deputy Director (PA-C), CWC.
- 17. R.N.Roy, Dy. Director, (PA-N), CWC.
- 18.T.D.Sharma, Dy. Director (PA-S), CWC.
- 19.B. Lenka, Dy. Director (M&A), CWC, Bhubneshwar.
- 20. A.K. Mukherjee, Dy. Director (FFM), CWC.
- 21. D. Prabhakar, Dy. Director (Hyd-S), CWC.
- 22. Sher Singh, Dy. Director (FFM), CWC.
- 23. R.P.S. Verma, Asstt. Director (PA-N), CWC.

# Central Electricity Authority

1. M.P.Singh, Director (CEA), HPA Division, Sewa Bhawan, R.K.Puram, New Delhi.

## State Government Officers:

#### - Assam

- 1. N.N.Goswami, Chief Engineer (Assam Engg. Deptt.), Govt. of Assam, Gauhati.
- 2. P.C Yadav, Consultant to Assam Govt., C/o CE, Assam FC Deptt., Assam.

#### - Brahmputra Board

- 1. A.Barkataki, General Manager, Brahmaputra Board, Basistha, Assam.
- 2. K.K.Sarma, EE, LO.Brahmaputra Board, Palika Bhawan, R.K.Puram, New Delhi.
- 3. Trilochan Baruah, SE, Brahmputra Board, Silchar, Assam

#### - Karnataka

- 1. A.P.Joshi, MD, KNNL, Bangalore.
- 2. D.Subramanya, SE, Upper Tunga Project Circle, Shimoga.
- 3. J.R.K.Karadi, SE, Markandeya Project.
- 4. D.S.Nagraj, AE, O/O CE UTP Zone, Shimoga, Karnataka

#### Maharashtra

- 1. D.D.Rewatkar, SE, Upper Wardha Project Circle, Amravati.
- 2. L.K.Khade, Ex.Engineer, Ahmednagar Medium Project Div., Maharashtra.
- 3. R.G.Dantulker, AE II, M.I.Division, Wardha.
- 4. T.Mandalappa, SDO, M.I Division, Wardha.
- 5. N.H.Kabra, SDE, Ahmednagar, Maharashtra.

#### - Orissa

- 1. J.P.Basa, Engineer-in-Chief, (P&D), Secha Sadan, Kesari Nagar, Bhubneshwar.
- 2. R.N.Rajfguru, Liason Officer, Government of Orissa.
- 3. K.C.Patvari, Chief Engineer (Planning), Deptt. of Water Resources, Orissa.

## · Rajasthan

- 1. J.S Chhajerh, Chief Engineer, Mahi Bajaj Sagar Project, Rajasthan.
- 2. M.S.Joshi, SE, Mahi Project Banswara, Rajasthan.

## - Tamilnadu

- I. A.Syed Jaffer Hussain, Joint Chief Engineer WRD(P), Government of Tamilnadu, PWD, Chennai -5.
- 2. K.Sakthwel, EE, Irrukkangudi Reservoir Project Division, Tanhadi, Tamilnadu.

#### - Uttar Pradesh

- 1. R.K.Dewan, Chief Engineer, Ganga, IDUP, Merrut, U.P.
- 2. A.K.Jain, Chief Enginner (Betwa Pariyojna), U.P. Irrigation Deptt., Jhansi.
- 3. J.S.Chauhan, Chief Engineer (Sone ID), Varanasi.
- 4. A.K.Jindal, SE& Senior Staff Officer CE (Son) Varanasi, U.P.
- 5. Sheo Pujan Singh, SE, Irrigation Construction Circle, Jhansi (U.P.).
- 6. K.K.Jain.EE, Irrigation Constn.Division, Jhansi.
- 7. S.K.Sharma, EE, Irrigation Constn.Div., Ghazipur (U.P.)
- 8. B.K.Mangal, EE, Yamuna Link Channel Const. Division, Saharanpur (U.P.)
- 9. R.K.Gaur, AE, Yamuna Link Channel Const. Division, Saharanpur (U.P.)

No. 16/27/2002-PA (N)/383-443 Government of India Central Water Commission Project Appraisal Organization

> 407, Sewa Bhawan, R. K. Puram, New Delhi-110 066. <u>Fax-6103561</u>

Date: 121h March 2003.

Sub: 80<sup>th</sup> meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 07.02.2003.

Enclosed please find a copy of the summary record of discussions of the above meeting held at New Delhi on 07<sup>th</sup> February 2003 for information and necessary action.

Encl.: As above.

(R. C. Jha) Chief Engineer (PAO) & Member Secretary - Advisory Committee

#### COPY TO:

#### MEMBERS OF COMMITTEE:

- 1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
- 2. Secretary (Expenditure), Ministry of Finance, North Block, New Delhi.
- 3. Secretary, Department of Power, S.S. Bhawan, New Delhi.
- 4. Secretary, Ministry of Environment & Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
- 5. Secretary, Ministry of Tribal Affairs, R. No. 603, A-Wing, Shastri Bhawan, New Delhi.
- 6. Secretary, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
- 7. Director General, ICAR, Krishi Bhawan, New Delhi.
- 8. Chairman, CEA, Sewa Bhawan, R. K. Puram, New Delhi.
- 9. Chairman, Central Ground Water Board, NH-4, Faridabad, Haryana.
- 10. Adviser (WR), Planning Commission, Yojana Bhawan, New Delhi.
- 11. Adviser (Power), Planning Commission, Yojana Bhawan, New Delhi.
- 12. Financial Adviser, Ministry of Water Resources, S.S. Bhawan, New Delhi.

#### Special Invitees:

- 1. Member (WP&P), CWC, New Delhi.
- 2. Member (D&R), CWC, New Delhi.
- 3. Member (RM), CWC, New Delhi.
- Chairman. Ganga Flood Control Commission, (GFCC), Sinchai Bhawan, Patna-800015 (FAX No. 0612-2222294).
  - 5. Commissioner (Projects), Ministry of Water Resources, New Delhi.
  - 6. Commissioner (ER), Ministry of Water Resources, CGO Complex, Block-11, 8<sup>th</sup> floor, Lodhi Road, New Delhi
  - 7. Special Secretary-PWD. Government of Tamil Nadu, Chennai.
  - 8. Engineer-in-chief, Madhya Pradesh Water Resources Department, Vallabh Bhawan, Bhopal, Madhya Pradesh.
  - 9. Engineer-in-chief (Planning & Design), Water Resources Department, Government of Orissa, Bhubaneshwar.
- (5)—10. Engineer-in-chief, Irrigation Department, Government of Uttar Pradesh, Lucknow.

11. Shri S.K.Singh, Chief Engineer, Water Resources Department, Dehri, Bihar. 12. Chief Engineer, Mahanadi Godavari Basin, Water Resources Department, Shankar Nagar, Raipur-492001, Chhattisgarh (FAX No. 0771-2424036). 🖏—13. Shri G.H.Shah, Chief Engineer, Irrigation & Flood Control Department, Government of J&K, Jammu. 14. Shri A.P.Joshi, Managing Director, Karnataka Neeravari Nigam Limited (KNNL), Coffee Board Building, Bangalore. 15. Chief Engineer (Ganga), Water Resources Department, Government of Madhya Pradesh, Rewa, Madhya Pradesh. -16. Shri P.R.Maahanandani, Chief Engineer-IDR, Irrigation Department, Rajasthan, Jaipur. ₹ 17. Shri B.P.Sharma, Additional Chief Engineer, Irrigation Zone, Government of Rajasthan, Jaipur. 18. Shri S.Rajagopalan, Commissioner (WRCD), Office of Engineer-in-chief, Government of Tamil Nadu, Chennai. 19. Chief Engineer (Bansagar Organization, Irrigation Department, Government of Uttar Pradesh, Allahabad. 20. Chief Engineer (Baswa Reservoir), Irrigation Department, Govt. of U.P., Jhansi. -21. Chief Engineer (MER), Mahanadi & Eastern Rivers Organization, CWC, Plot No. 655, Sahid Nagar, Bhubneshwar-751007 (Orissa) (FAX No. 0674-2522217). 22. Chief Engineer, Narmada Basin, Błock-3, Ground Floor, Paryaras Bhawan, Arena Hills, Bhopał (Madhya Pradesh). 23. Shri Y.C.Agrawal, Director (Minor Irrigation), Irrigation Department, Jaipur. 24. Shri S.E.Vedpatak, Asstt. Chief Engineer, Irrigation department, Aurangabad, Maharashtra. 25. Shri G.Sahu, Executie Enigneer, Rukura irrigation Division, Rourkela, Orissa-751001. 26. Chief Engineer (EMO), CWC, New Delhi.

29. Chief Engineer (Monitoring (C))/Director (M&A), CWC, Nagpur. 29. Chief Engineer (FMO), CWC, New Delhi. 30. Chief Engineer (PPO), CWC, New Delhi.

27. Chief Engineer (PMO), CWC, New Delhi.

-31. Superintendent Engineer, Circle-V, Station Road, Bareilly, Uttar Pradesh (FAX No. 0581-22427119).

32. Shri S.M.Kansal, Superintending Engineer (Coord.), CWC, Janhavi Bhawan, 21/496, Indera Nagar, Lucknow, U.P.

33. Director (M&A), Gool House, Indira Colony, Timber Road, Janipur, Jammu Tawi-180007 (FAX No. 0191-2530675).

34. Shri A. Mahendran, Director (Appraisal), CWC, Block-C, 3<sup>rd</sup> floor, CGO Complex, Seminary Hills, Nagpur-440006.

35. Shri S.K.Haldar, Director (M&A), CWC, Block-3, Ground Floor, Paryawas, Jail Road, Bhopal-462011.

36. Director, Project Appraisal (North), CWC, New Delhi.

37. Director, Project Appraisal (south), CWC, New Delhi.

38. Director, Project Appraisal (Central), CWC, New Delhi.

39. Director, PP (Central), CWC, New Delhi.

40. Director, EIA, CWC, New Delhi.

Copy for information to:

1. Commissioner & Secretary, Water Resources Department, Government of Bihar, Sinchai Bhawan, Patna-800015 (FAX No. 0612-2225942).

2. Commissioner & Secretary, Irrigation Department, Govt. of Orissa, Bhubaneshwar-751001

3. Principal Secretary, Irrigation Department, Government of Uttar Pradesh, Bapu Bhawan, Łucknow-226 001 (U.P.).

 Secretary, Water Resources Department, Government of Madhya Pradesh, Ballabh Bhawan, Bhopal-462001 (FAX No. 0755-2551781).

5. Secretary (Irrigation), Government of Maharashtra Mantralaya, Mumbai-400032.

 Secretary, Water Resources Department, Government of Chhattisgarh, Mantralaya Bhawan, Raipur-492001, Chhattisgarh.

. Secretary, Irrigation Department, Government of Rajasthan, Jaipur.

 Secretary, Irrigation Department, Government of Karnataka, M.S. Building, Dr. Ambedkar Veedhi, Bangalore-560001.

9. PPS to Secretary, Ministry of Water Resources, New Delhi.

# ADVISORY COMMITTEE FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF IRRIGATION, FLOOD CONTROL AND MULTI-PURPOSE PROJECT PROPOSALS.

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# SUMMARY RECORD OF DISCUSSIONS OF THE 80<sup>TH</sup> MEETING HELD ON 7<sup>TH</sup> FEBRUARY, 2003.

The 80<sup>th</sup> meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals was held on 7.2.2003 at 1500 hrs. in the Committee Room of Central Water Commission, Sewa Bhavan, R.K.Puram, New Delhi under the Chairmanship of Shri A.K. Goswamy, Secretary(WR), Ministry of Water Resources. A list of participants is enclosed as Annexure-I.

The Chairman welcomed the members of the Committee, their representatives and other officers present and intimated that techno-economic viability of 15 projects (New Medium-4, Flood Control-1, New Major-9 and Revised Major-1) are to be considered in the meeting. He then requested Member-Secretary to put up the project proposals on agenda. Discussions held and decisions taken by the Committee on the agenda items have been summarized below:

## 1. MODERNISATION OF DADI CANAL (NEW MEDIUM) - J&K

Estimated Cost : Rs.11.10 crore (2000 PL)

CCA : 3,069 ha. Annual Irrigation : 4,526 ha.

The Chief Engineer (PAO), CWC briefly explained the project proposal. The Advisor (WR), Planning Commission enquired whether any hydropower project existing on the down stream of the project site would be affected with the implementation of this project. The Chairman requested the representative of CEA to give a brief account of the existing power projects on river Jhelum. Director (HPA), CEA mentioned names of the existing Hydro Power Projects on River Jhelum and confirmed that there is no power project existing on downstream of the Dadi Canal Headworks. This was also endorsed by Chief Engineer (I&FCD), J&K.

After discussions on various components of modernization, particularly lining of canal and design discharge in canal, the Advisory Committee accepted the project proposal subject to concurrence of the State Finance Department.

## 2. WAKOD MEDIUM IRRIGATION PROJECT (NEW MEDIUM) - MAHARASHTRA

Estimated Cost : Rs.34.36 Crore (2000-01 PL)

CCA : 2,565 ha. Annual Irrigation : 2,217 ha.

The Chief Engineer (PAO), CWC introduced the project proposal and explained that though the BC ratio and IRR are 1.073 and 9.41% respectively, the benefited area being drought prone, the project can be accepted. The Advisor (WR), Planning Commission pointed out that a large number of Irrigation Projects of Maharashtra i.e. 54 Major and 44 Medium are already on-going and are still to be completed and raised the issue of availability of fund and timely completion of this project. The Chairman desired to know whether Government of Maharashtra is serious to take up this project or not. On this, the representative of Government of Maharashtra clarified that the project proposal is included in the X Plan and assured that the same would be completed as scheduled. Issues pertaining to Irrigation intensity were also raised, discussed and clarified.

Finally the Committee accepted the Project proposal subject to:

- Concurrence of the State Finance Department; and i)
- Monitoring of ground water level in post irrigation stage and implementation of ii) conjunctive utilization of ground water, as found necessary/feasible.

# 3. SUTIAPAT MEDIUM IRRIGATION PROJECT (NEW MEDIUM) - CHHATTISGARH

**Estimated Cost** 

Rs.46.95 Crore (2002-2003 PL)

CCA

6.571 ha.

Annual Irrigation :

6,960 ha.

The Chief Engineer (PAO), CWC briefly introduced the project proposal and stated that the proposal was earlier discussed in 45th TAC meeting held on 16.11.1989 and was deferred mainly due to inadequate provision of RR Plan in respect of Tribal population and clearance by M/o Tribal Affairs. He further informed that these observations have now been complied with and the proposal is techno-economically viable. The Advisor (WR), Planning Commission clarified that though there is no water sharing agreement between basin States in Mahanadi basin, the anticipated utilization being 34.78 hm<sup>3</sup> only, the proposal can be accepted. The Chairman also endorsed the need for comprehensive agreement for sharing available water of Mahanadi.

After discussions, the Advisory Committee accepted the project proposal.

## 4. IRUKKANGUDI RESERVOIR PROJECT (NEW MEDIUM) - TAMIL NADU

**Estimated Cost** 

Rs. 72 crore (2000-01 P.L.)

CCA

4,229 ha.

4,229 ha. Annual Irrigation :

The Chief Engineer, PAO, CWC briefly explained the Project and indicated that the project proposal was put up to the Advisory Committee in its 79th meeting held on 24.5.02 wherein Committee decided that the project may be deferred and resubmitted by the State Govt, after review of irrigation efficiency and cropping pattern with a view to provide extensive irrigation. He further explained that since there is no more area available within gross command which could be brought under irrigation so as to achieve extensive irrigation, the project could be considered by the Advisory Committee. Advisor, (WR), Planning Commission emphasized that the Project Authorities may ensure the high irrigation efficiency as indicated in the project proposal. The Special Secretary, PWD, Tamil Nadu mentioned that the project authorities are approaching NABARD for financing the project and by some modifications such as in river training, the cost of the project may come down to the tune of Rs. 62 crore.

The Advisory Committee accepted the project proposal subject to:

- i) Concurrence of the State Finance Department; and
- 11) Preference to be given to drinking water requirement particularly in the deficit years before providing water for irrigation.

 PROJECT FOR CONSTRUCTION OF MARGINAL EMBANKMENT/RIGHT BANK OF RIVER GHAGRA AND LEFT BANK OF RIVER SARDA (FLOOD CONTROL) — UTTAR PRADESH.

Estimated Cost : Rs.18.82 crore

The Chief Engineer (PAO), CWC introduced the project proposal and intimated that the scheme was recommended by the TAC of UP State Flood Control Board in its 115<sup>th</sup> meeting held at Lucknow on 13<sup>th</sup> July, 1999 and also found technically viable by Ganga Flood Control Commission (GFCC), Patna. The Chairman desired to know the type of crops being cultivated in the doab. The Chairman, GFCC informed that sugarcane is mainly cultivated in the doab area. The Member, GFCC gave an account of the population affected by flood. Representative from ICAR expressed that with marginal embankments the area may become more susceptible to waterlogging. Member (WP&P) explained that the land between the embankments is sloping towards the river and is proposed to be drained through embankment sluices, such that there would be no waterlogging. CE (PAO) suggested that the drainage courses may preferably be provided with maintenance free type gates to ensure sluices are operational when required or else the gates would have to be periodically maintained and kept in good condition.

After a brief discussion, the scheme was accepted by the Advisory Committee with a suggestion to take care of the drainage aspects appropriately.

 MAHAN (GULAB SAGAR) IRRIGATION PROJECT STAGE-I (NEW MAJOR) - MADHYA PRADESH

Estimated Cost : Rs.146.51 Crore (2002 PL)

CCA (Net) : 14,000 ha. Annual Irrigation : 19,470 ha.

The Chief Engineer (PAO), CWC explained the project proposal and stated that earlier the project was considered and accepted by TAC in the meeting held on 7.6.1983 subject to certain conditions, but Investment clearance could not be accorded by the Planning Commission mainly as cost towards Catchment Area Treatment was not included in the estimate. He further intimated that the aspects of Catchment Area Treatment have now been included and accordingly the cost estimate of the project has been finalised. The Chairman desired to know the provision made in the estimate for Catchment Area Treatment. The concerned Chief Engineer intimated that an amount of Rs.49.50 lakh has been kept in the estimate for this purpose. The Engineer-in-Chief, Govt. of M.P. stated that the concurrence of State Finance Department for Rs.140.86 crore has been obtained. Director (PAC) pointed out that the revised concurrence for the estimated cost of Rs.146.51 crore would be required. The representative of M/o Tribal Affairs raised the issue of compensation and fishing rights to be given to tribal people in the project area. The Engineer-in-Chief, Govt. of Madhya Pradesh stated that proposal regarding fishing right is already under consideration within the R&R Policy of the State Govt. He further added that necessary compensation has already been suggested for resettlement of ST population in the revised RR Plan, recently submitted to the State Govt. for concurrence.

In light of the above discussions, the Advisory Committee accepted the project proposal subject to:

(i) Revised concurrence of the State Finance Deptt. for estimated cost of Rs.146.51crore; and

(ii) Clearance of the RR Plans in respect of Tribal population from M/o Tribal Affairs, Govt. of India.

# 7. IB IRRIGATION PROJECT (NEW MAJOR) - ORISSA

Estimated Cost : Rs. 1140 crore (2000 PL)

CCA : 1,06,279 ha. Annual Irrigation : 1,06,279 ha.

The Chief Engineer, PAO introduced the project proposal in brief and mentioned that in pursuance of the Agreement between Orissa and Madhya Pradesh (now Chhattisgarh) dated 28.4.1983, the State of Chhattisgarh may generate Hydro Power at the Head Works (Canal Heads) of Ib Irrigation Project for which they will prepare a separate Project Report. He further explained that the Planning for Irrigation component of the project is in order with FRL at 266 m but on the basis of 1983 Agreement, FRL has been kept at 272.5 m for which Orissa has agreed to keep necessary provision in the design of the dam. The Chairman wished to know the extent of submergence and forest area affected in the State of Chhattisgarh. The Engineer-in-Chief, Govt. of Orissa informed that at FRL 272.5 m an area of 110.91 hectare is likely to be submerged in Chhattisgarh including 67.38 ha of forest land and that there is no submergence in Chhattisgarh at FRL 270 m. The Chief Engineer (PAO) opined that higher FRL at 272.5 m is required to be studied in respect of power generation vis-à-vis submergence. The Representative officer from Electricity Board, Govt. of Chhattisgarh mentioned that working table of the project incrementally upto FRL of 266 m has been supplied to them by Govt, of Orissa but they need working table upto RL 272.5 m so that power potential studies for the project could be made and finalized. The Engineer-in-Chief, Govt. of Orissa explained that since Orissa has to bear full cost of the dam and Chhattisgarh will bear the full cost of all civil and electrical works required for generation of Hydro Power and also to make its own arrangement for operation and transmission of power generated. Govt, of Orissa would extend all co-operation to Chhattisgarh in preparation of combined working table. The Advisor (WR), Planning Commission suggested that till finalization of combined working table and proposal for power generation, the Govt. of Orissa may construct the dam assuming FRL at 272.5 m but would fill up the dam only upto a height say 270 m ensuring that there is no submergence in the territory of Chhattisgarh. The Representative of ICAR suggested that high yielding varieties of crops consuming less water could have been adopted in the proposal. The Engineer-in-Chief, Govt. of Orissa stated that the cropping pattern has been proposed on the recommendations of the State Agriculture Department.

After discussions, the project was accepted by the Advisory Committee subject to the following conditions:

- (i) The dam may be constructed assuming FRL at 272.5 m but Govt. of Orissa would fill up the reservoir upto RL 270 m to avoid submergence in the State of Chhattisgarh till power generation aspect is finalized by the Govt. of Chhattisgarh and their concurrence is obtained for raising the reservoir level upto 272.5 m;
- (ii) Clearance for use of forest-land and environmental clearance from MOEF;
- (iii) Clearance of R &R Plans from Ministry of Tribal Affairs; and
- (iv) Concurrence of State Finance Department for the finalized cost of the project.

## 8. MAHANADI RESERVOIR PROJECT (NEW MAJOR) - CHHATTISGARH

Estimated cost : Rs 566.88 (1998 PL)

CCA : 3,01,000 ha
Annual Irrigation : 2,64,000 ha

The Chief Engineer (PAO), CWC explained the project proposal of consolidating irrigation benefits from three existing reservoirs, New Rudri Barrage and Canal systems by developing entire network as a complex. He also stated that a similar proposal for developing complex for six reservoirs was earlier deferred in the 57<sup>th</sup> TAC meeting held in 1994 for want of MOE&F clearance of one on-going Sondur Dam and other proposed Pairy High Dam. Since the present proposal of MRP does not include Sondur, Sikasar and Pairy dams, MOEF has exempted the project considering no extension of canal. Advisor (WR), Planning commission pointed out the discrepancies in the Ground water utilization needed to be sorted out. The concerned Chief Engineer clarified that the State Government is providing subsidy to encourage installation of tube wells. Representative of ICAR also suggested to include provision for adequate drainage and proper utilization of ground water potential. Representative of CGWB clarified that there is no over exploitation of ground water resources in the region so far and thus there is considerable scope for ground water utilization. The Project Authorities were also advised to explore possibility of implementation of participatory Irrigation Management on completion of the project.

After discussions, the Advisory Committee accepted the project proposal subject to:

- (i) Concurrence of the State Finance Department for the updated cost;
- (ii) Planning of conjunctive use of surface and ground water in consultation with State/Central ground Water Board;
- (iii) Clearance of Rehabilitation & Resettlement Plan for Tribal population by the Ministry of Tribal Affairs; and
- (iv) Monitoring of Command Area Development Programme by the Project Authorities to ensure effective utilization of provisions made for the purpose.

#### 9. SONE CANAL MODERNISATION SCHEME (REVISED MAJOR) - BIHAR

Estimated Cost : Rs.493.17 crore (at 2000 PL)

CCA : 6,99,000 ha. Annual Irrigation : 9,00,000 ha

Main features of the scheme were explained by the Chief Engineer (PAO), CWC. The Advisor (WR), Planning Commission raised the issue of availability of small residual amount for meeting expenses of establishment after adjusting the expenditure so far incurred under the Head II-Establishment. The Chairman and the Advisor desired to know whether establishment cost of the project can be reduced and the project can be completed in scheduled time and at estimated cost. The concerned Chief Engineer and the Superintending Engineer, Water Resources Department, Bihar confirmed that the Govt. of Bihar has considerably reduced the strength and cost of establishment and hence the allocation towards establishment is sufficient to complete the project within the stipulated time and cost.

The scheme was accepted by the Advisory Committee subject to:

- Concurrence of the State Finance Department;
- (ii) Monitoring of Ground Water Level in post irrigation stage and conjunctive utilization of surface and ground water;
- (iii) Provision of drinking water facilities in the command, as required;
- (iv) Implementation of environmental safeguards stipulated by M/o Environment & Forests; and
- (v) The present approval is for balance works taken up under AIBP and other new works as proposed.

# IMPROVING WATER MANAGEMENT ON EXISTING SARDA CANAL SYSTEM (NEW MAJOR) – UTTAR PRADESH.

Estimated cost : Rs.102.41 (December 2000 PL)

CCA : 16,12,600 ha. Annual Irrigation : 8,06,300 ha.

The Chief Engineer (PAO), CWC narrated the background and the need for improving around 9677 km long Sarda Canal System. The Advisor (WR), Planning Commission wished to know whether this project was also considered while framing the Uttar Pradesh Water Sector Restructuring Project (UPWSRP) and the reason for small provision of cost of Rs.102.41 crore only to achieve the annual irrigation to the extent of 8.063 lakh ha. The Chief Engineer (PAO), CWC clarified that in UPWSRP, apart from institutional reforms, only options for reform of irrigation and drainage system in Ghagra-Gomti doab was considered. The Engineer-in-Chief, Govt. of Uttar Pradesh informed that works on Sarda Canal System were partly attended under NWMP with World Bank assistance and the present proposal is for the completion of the balance works, which when completed, would ensure stipulated irrigation benefits. The Advisor (WR) also desired elaboration of the benefits derived while there is no change in the area under irrigation after the project. The representative of ICAR explained that by improving water management and thus by increased availability of water, crop water requirements would be met and it would be possible to adopt high yielding varieties of seeds and higher irrigation intensity, thus increased production. In his opinion, such projects should be given priority for getting higher yields with less investment.

After discussions, the scheme was accepted by the Advisory Committee subject to:

- (i) Concurrence of the State Finance Department;
- (ii) Conjunctive use of surface and ground water in the post construction stage:
- (iii) Provision of drinking water facilities in the command if not provided; and
- (iv) The approval is for balance of works taken up under NWMP.

# 11. BAN SAGAR CANAL PROJECT (NEW MAJOR) - UTTAR PRADESH

Estimated cost : Rs.620.80 crore (2001 PL)

CCA : 2,32,441 ha. Annual Irrigation : 1,50,132 ha.

The Chief Engineer (PAO), CWC briefly described the project proposal and stated that the project was earlier accepted by the TAC in its 57<sup>th</sup> meeting held in January, 1994 for Rs.190.27 crore subject to environment and forest clearance and concurrence of the State Finance Department. He further added that the present proposal is basically an updated estimate, by and large, without any change in the overall scope. The Advisor (WR), Planning Commission desired to know the status of Environment and Forest clearance. The Engineer-in-Chief, Govt. of UP explained that the State level actions are in advanced stage, but formal approval is required to be issued by the Central Govt.

After brief discussions, the project was accepted by the Advisory Committee subject to:

- (i) Concurrence of the State Finance Department for updated cost; and
- (ii) Environment and Forest clearances from MOE&F.

## 12. MODERNISATION OF LAHCHURA DAM (NEW MAJAOR) - UTTAR PRADESH

Estimated Cost : Rs.94.18 crore (2001 PL)

CCA : 97,169 ha. Annual Irrigation : 46,485 ha.

The project proposal was briefly introduced by the Chief Engineer (PAO), CWC. He further added that the modernisation proposal contemplating replacement of old existing Lahchura dam was earlier cleared and accepted by the TAC of the Planning Commission in April, 1980 for Rs.8.52 crore. The present proposal is revised project estimate with the provision of enhanced design floods of 18000 cumec. The Advisor (WR), Planning Commission wished to know the status of hydrological studies conducted so far. The Chief Engineer (PAO) clarified that the hydrological parameters have been finalized based on the synthetic data but improvement is always possible with availability of site-specific data.

After brief discussions, the project proposal was accepted by the Advisory Committee subject to:

- (i) Concurrence of the State Finance Department for updated cost; and
- (ii) Forest clearance for 73 ha of forest land by MOE&F, Govt. of India.

# 13. UTILISATION OF YAMUNA WATER IN BHARATPUR DISTRICT - YAMUNA WATER IRRIGATION PROJECT IN THE DISTRICT OF BHARATPUR (NEW MAJOR) - RAJASTHAN

Estimated cost : Rs 175.44 Crore (2000 PL)

CCA : 65,208 ha
Annual Irrigation : 76,681 ha

The CE (PAO), CWC explained the project proposal. The Chairman desired to know the status of concurrence of Govt. of Haryana. The Chief Engineer & Addl. Secretary to the Govt. of Rajasthan clarified that the matter has already been discussed at Chief Minister's level and agreed to, but agreement in this regard is yet to be signed. Since the project has been planned on the basis of average availability, the Advisor (WR), Planning Commission desired to know the success rate of proposed irrigation. The Commissioner (PR) clarified that with the available data, the required success rate has already been established, but the same needs to be reconfirmed with updated data available at Tajewala & Okhla duly accommodating utilization of UP, Haryana and Delhi.

After discussions, the committee accepted the project proposal subject to:

- Concurrence of Govt. of Haryana of the cost of works to be carried out in their territory and taking up the construction in Haryana and Rajasthan simultaneously;
- (ii) Concurrence of State Finance Department;
- (iii) The Monitoring of ground water level in the post irrigation stage and conjunctive utilization of surface and ground water in consultation with CGWB;
   and
- (iv) Confirmation of success of irrigation as well as drinking water supply on ten daily basis at source before taking up the construction of the project.

# 14. UTILISATION OF YAMUNA WATER IN JHUNJHUNU & CHURU DISTRICTS (NEW MAJOR) - RAJASTHAN.

Estimated cost : Rs 934.70 Crore (2000 PL)

CCA : 1,95,860 ha Annual Irrigation : 1,76,274 ha

The CE (PAO), CWC introduced the project proposal and stated that the project is contemplating to provide drinking water and irrigation to drought prone areas in Jhunjhunu and Churu District of Rajasthan. The Advisor (WR), Planning Commission suggested to implement the project in phased manner in view of the large outlay for the same.

After brief discussion, the Advisory Committee accepted the project proposal subject to:

- (i) Concurrence of Govt. of Haryana for the cost of Works to be carried out in their territory and taking up the construction in Haryana and Rajasthan simultaneously;
- (ii) Concurrence of State Finance Department;
- (iii) Monitoring of ground water level in the post irrigation stage and conjunctive utilization of surface and ground water in consultation with CGWB;
- (iv) Confirmation of success of irrigation as well as drinking water supply on tendaily basis at source before taking up the construction of the project; and
- (v) Environmental clearance from the MOE&F, Government of India.

# 15. UPPER TUNGA PROJECT (NEW MAJOR) - KARNATAKA

Estimated Cost : Rs. 1052.33 crore (2001 PL)

CCA : 94,698 ha. Annual Irrigation : 80,494 ha.

The Chief Engineer, PAO, CWC briefly explained the project proposal and intimated that the proposal was put up to the Advisory Committee in its 79<sup>th</sup> meeting held on 24.05.02 wherein Committee decided to defer the project till the matter regarding environmental clearance is sorted out with MOEF and suggested that while resubmitting the project proposal the project authorities may attempt to increase the intensity of irrigation. The Chairman wished to know the status of clearance of the project by MOEF. The Managing Director, KNNL stated that the project proposal has already been cleared by the Indian Board of Wild life (IBWL) subject to certain conditions and also has been considered by the Central Empowered Committee constituted by the Hon'ble Supreme Court of India for diversion of the forest area within the Shettihalli Sanctuary in Karnataka for construction of the Upper Tunga Irrigation Project. As regards the intensity of irrigation, he explained that the irrigation through this project is in Kharif season only for which the Agriculture Department has already suggested the cropping pattern suitable for the area and thus increase in intensity is not practically possible.

After brief discussions, the Advisory Committee accepted the Project proposal subject to:

- (i) Clearance of the project from MO&EF;
- (ii) Concurrence of the State Finance Department;
- (iii) Yield series at project site beyond 1990 to be revalidated after applying consistency checks to the observed data and inflow data at the existing Tunga anicut to be checked with the updated yield series;
- (iv) Design Flood to be validated on the basis of latest observed flood data at Shimoga G&D site and concurrent short duration rainfall data; and
- (v) Considering the advanced stage of construction of dam and that COT of dam has been placed on loamy soil without curtain grouting and on fractured rock strata, suitable treatment of foundation is required to be carried out.

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

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## LIST OF PARTICIPANTS

#### MEMBERS OF COMMITTEE:

### S/Shri

-11-	5/5/111			
1.	A.K. Goswami, Secretary (WR), Ministry of Water Resources.	In the Chair		
2.	R.Jeyaseelan, Chairman, CWC.	Member		
3.	A. Sekhar, Adviser-WR, Planning Commission.	Member		
4.	Niranjan Pant, Joint Secretary & Financial Adviser, MOWR.	Member		
5.	Dr. D.K.Paul, Principal Scientist (WM), ICAR [Representing Director General,	Member		
	ICAR1			

	10/11/	
6.	S.Shiva Kumar, Director, MOEF [Representing Secretary, MOEF]	Member
7.	Tanmoy Das, Director, HPA, CEA [Representing Chairman, CEA]	Member
8.	Dr. N.K. Ghatak, Joint Director, MOTA, [Representing Secretary, MOTA)	Member
9.	Dr. Arijit Dey, Scientist, CGWB Representing Chairman, CGWB	Member

10. R. C. Jha, Chief Engineer, PAO, CWC. Member Secretary

# Special Invitees:

## - Central Water Commission

- 1. S.K. Das, Member-WP&P, CWC.
- 2. A.B.Pal, Chief Engineer (PMO), CWC.
- 3. R.N.P.Singh, Chief Engineer (M&ERO), CWC, Bhubaneshwar.
- 4. V.R.Sastry, Chief Engineer-Hydrology, CWC.
- 5. S.P.Kakran, Chief Engineer, CWC, Bhopal.
- 6. R.K.Khanna, Director (EIA), CWC.
- 7. T.M. Venugopalan, Director, CWC, Coimbatore.
- 8. A.Mahendran, Director (Appriasal), CWC, Nagpur.
- 9. S.K.Banerjee, Director (PA-South), CWC.
- 10. S.K. Srivastava, Director (PA-North), CWC.
- 11. S.M.Kansal, Superintending Engineer (Coord), CWC, Lucknow.
- 12. H.R.Bhagat, Director (M&A), CWC, Jammu.
- 13. S.K. Haldar, Director, CWC, Bhopal.
- 14. W.M.Tembhurney, Director (PA-C), CWC.
- 15. Ashok K Gautam, Director (Economics), CWC.
- 16. Munni Ram, Director (PP-C), CWC.
- 17. Rakesh Kashyap, Deputy Director, M&A Dte., CWC, Jammu.
- 18. D.N.Dahiya, Deputy Director, PA-Central, CWC.
- 19. R.N.Ray, Deputy Director, PA-North, CWC.
- 20. Rajiv Kumar, Deputy Director, Env. Management, CWC.
- 21. T.D.Sharma, Deputy Director, PA-South, CWC.

#### - Ministry of Water Resources

1. R.K.Sharma, Commissioner (Project).

### - Ganga Flood Control Commission

- 1. C.B. Vashista, Chairman.
- 2. S.K.Sinha, Member.

#### - Planning Commission

1. Mahesh Chander Chawla, Jt. Advisor (WR).

# - Central Electric Authority

1. M.P.Singh, Director-HPA.

# State Government Officers:

## - Bihar

- 1. S.K. Singh, Chief Engineer, WR Department, Dehri Bihar.
- 2. D.N.Jha, Superintending Engineer, NRD, Dehri Bihar.
- 3. R.P.Singh, Ex. Engineer, WR Department, Patna, Bihar.

# - Chhattisgarh

- 1. Y.K.Chellani, Chief engineer, MRP, Raipur.
- 2. V.K.Srivastava, Chief Engineer (C), CSEB, Raipur.
- 3. S.K. Sarkar, Superintending Engineer, WRD, Raipur.

#### - Jammu & Kashmir

1. G.H.Shah, Chief Engineer, I&FCD.

#### - Karnataka

1. A.P.Joshi, M.D. Karnataka Neeravari Nigam Limited (KNNL), Bangalore.

## - Madhya Pradesh

- 1. B.D. Joshi, Engineer-in-chief, MPWRD, Bhopal.
- 2. L.K. Srivastava, Chief Engineer, Ganga Basin, Rewa.
- 3. P.K.Nijhawan, Ex. Engineer, Ganga Basin, Rewa.
- 4. S.K.Tiwari, Ex. Engineer, WRD Division, Kawardha.

#### - Maharashtra

1. S.E. Vedpa hak, Asstt. Chief Engineer-ID, Aurangabad.

#### - Orissa

- 1. J.P.Basa, Engineer-in-Chief (Planning & Design), WR, Bhubaneshwar.
- 2. G.Sahu, Executive Engineer, Rukura Irrigation Division, Rourkela.
- 3. R.N.Rajguru, Liasion Officer, Govt. of Orissa, New Delhi.
- 4. K.R.Acharya, Deputy Director-Planning, O/o CE-PP&A, WRD, Bhubaneshwar.

#### - Rajasthan

- 1. P.D.Mahanandani, Chief Engineer-IDR, Irrigation Rajasthan Jaipur.
- 2. B.P.Sharma, Additional Chief Engineer, Irrigation Zone, Jaipur.
- 3. Y.C.Agrawal, Director, Minor Irrigation Schemes, Jaipur.
- 4. Hanuman Singh, Executive Engineer, Irrigation Division, Sikar-Rajasthan.

#### - Tamil Nadu

- 1. M.Deena Dhayalan, Special Secretary-PWD, Chennai.
- 2. S.Rajagopalan, Commissioner (WRCP), O/o Engineer-in-Chief, Chennai.

#### - Uttar Pradesh

- 1. Ananci Prakash, Engineer-in-Chief, U.P. Irrigation, Lucknow.
- 2. Jai Prakash, Chief Engineer, Bansagar Organization, Allahabad.
- 3. A.K.Jaln, Chief Engineer, Belwa Pariyojana, Jhansi.
- 4. P.N.Gupta, Superintending Engineer, I.C.C. Mahoba-U.P.
- 5. Harpal Singh, Superintending Engineer, Fifth Circle Irrigation Works, Bareily.
- 6. Dhoom Singh Sharma, Superintending Engineer, Bansagar Nehar Nirman Mandal-I, Mirzapur.
- 7. S.K.Roy, Executive Engineer, Bansagar Canal Construction Division-2, Mirzapur.