

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

**SUMMARY RECORD OF DISCUSSIONS OF THE 81ST MEETING
HELD ON 4TH AUGUST, 2003.**

The 81st meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals was held on 4th August, 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 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 (New Medium 5, Flood Control-2, New Major-7) 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 summarised below:

I. THOTAPALLI BARRAGE SCHEME (NEW MAJOR) – ANDHRA PRADESH

Estimated Cost	: Rs.415.87 Crore (2001-02 PL)
CCA –Existing	: 25,900 ha
New	: 48,563 ha
Total	: 74,463 ha

Chief Engineer (PAO), CWC introduced the project proposal in brief. Responding to the inquiries of the Advisor (WR), Planning Commission regarding higher utilisation as compared to storage and displacement of tribal population, CE (PAO) clarified that in the project proposal apart from utilisation of surface water from barrage and existing tanks, conjunctive utilisation of ground water has also been planned. He further clarified that a few tribal families are also affected. Likely displacement of some tribal families was also confirmed by the concerned Chief Engineer of the project. Chief Engineer (IMO), CWC stated that inter-state aspect has been examined and accepted.

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

- (i) Concurrence of State Finance Department,
- (ii) Environmental clearance from M/ O Environment and Forests ,
- (iii) Approval of R&R Plan by M/ O Tribal Affairs, and

(iv) Review of Hydrology before finalisation of designs.

2. PEDDAGEDDA RESERVOIR PROJECT (NEW MEDIUM) – ANDHRA PRADESH

Estimated Cost	: Rs.32.117 Crore (2001-02 PL)
CCA	: 4858 ha
Annual Irrigation	: 4858 ha

Chief Engineer (PAO), CWC briefly introduced the project proposal. Advisor (WR), Planning Commission desired to know whether tribal population are affected due to construction of this project and whether concurrence of Orissa Govt. has been obtained. The concerned Chief Engineer from Andhra Pradesh explained that about 37 Scheduled Tribe families are affected and the matter is under correspondence with the M/o Tribal Affairs for their concurrence. Chief Engineer (KGB), CWC clarified that the yield calculation has been worked out based on the catchment area of Andhra Pradesh itself in accordance with the Inter-state Agreement between Orissa and Andhra Pradesh dated 15.12.1978. However, formal request for taking up this project was made vide Govt. of A.P. letter dated 28.10.2002 and necessary concurrence of Government of Orissa has been obtained. As such, there is no inter-state aspect involved.

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

- (i) Concurrence of State Finance Department,
- (ii) Forest clearance from M/ O Environment and Forests,
- (iii) Approval of R&R Plan by Ministry of Tribal Affairs, and
- (iv) Review of design flood at the time of construction.

3. MONGRA IRRIGATION PROJECT (NEW MEDIUM) – CHHATISGARH.

Estimated Cost	:	Rs. 83.46 Crore (2002-03 PL)
CCA	:	9000 ha
Annual Irrigation	:	9431 ha

Chief Engineer (PAO), CWC introduced the project proposal and explained that out of the total 712.25 sq.km. catchment of Sheonath river, about 310.80 sq.km. lies in the state of Maharashtra and the Maharashtra Government has already conveyed their concurrence vide their letter dated 15.6.1984 for the utilisation of water leaving 25 % of 75% dependable yield from Maharashtra catchment for upstream utilisation. As such, no inter-state aspect is involved. However, as per conditions given in their concurrence letter, the information related to hydrology, submergence, project proposal, etc. are to be submitted to the Government of Maharashtra for information/reference. The concerned Chief Engineer of Chhattisgarh mentioned that related information were sent to Govt. of Maharashtra. He further informed that in the present proposal, scope has been reduced for which the requisite details are being sent.

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

- (i) Revised concurrence of the State Finance Deptt.
- (ii) Forest clearance from M/ O Environment and Forests, and
- (iii) Monitoring of ground water level in post irrigation stage.

4. TARALI IRRIGATION PROJECT (NEW MAJOR) – MAHARASHTRA

Estimated Cost	: Rs. 504.96crore (2000-01 PL)
CCA	: 18131 ha
Annual Irrigation	: 19498 ha

Chief Engineer (PAO) introduced the project proposal and stated that 75% dependable yield at dam site is 207.11 hm³ (7.31 TMC) and gross utilisation proposed is 233.43 hm³ (8.24 TMC), which includes 48.18 hm³ (1.7 TMC) of direct utilisation of river waters through KT weirs/localised LIS.

Advisor (WR), Planning Commission mentioned that the utilisation is more than 75% dependable yield. He further stated that most of the Maharashtra projects, now under consideration of TAC, are planned on lower dependability i.e. 50%-75% with carry over storages. As such, it may not be possible to consider these projects for investment clearance. He emphasised that overall planning should be done on 75% dependability. On this Secretary (Irr.), Government of Maharashtra stated that in accordance with the Supreme Court's judgement of 1999/2000 allocation of Krishna water is en-block and subject to the conditions and restrictions put by the KWDT, the state of Maharashtra have the right to make beneficial use of water allocated to them in any manner the State think it proper. Further, he added that Govt. of Maharashtra has utilised only 520 TMC out of its share of water in Krishna Basin.

Chairman of the Committee stated that although there is a flexibility in the utilisation of water by the co-basin states, the project planning should be based on the 75% dependability as per the existing norms. Chairman wished to know the views of the Chief Engineer (IMO). Chief Engineer (IMO) stated that, since Tarali project is cleared from inter-state angle the project could be accepted by the Committee. Chief Engineer (IMO), CWC further stated that their views on the issues regarding dependability etc. have already been indicated in their note dated 26.12.02, enclosed as annexures in the respective TAC notes. Chairman, CWC desired to know whether the Government of Maharashtra is permitted to change, increase or decrease the protected utilization as stipulated in the KWDT Award as there are variations in the utilisation figures. Secretary (Irr.), Government of Maharashtra clarified that as per Clause VII of the KWDT Award, utilisations have been recast taking utilization 100% for irrigation, 20% for drinking water components and 2.5 % for industrial use. As such, there are modifications in the figures for protected utilisation. Chief Engineer, Irrigation Deptt., Pune stated that the matter related to dependability was discussed with CWC on several occasions.

Advisor (WR), Planning Commission pointed out that in most of the projects irrigation success is more than 75%. As such, the storage planning needs to be revised to avoid carry-over storage. He further stated that since 2nd KWDT Tribunal is to be constituted shortly, Govt. of Maharashtra may represent their stand to the Tribunal for decision in the matter. Chairman decided to first complete techno-economic evaluation of projects other than those in Krishna basin and stated that a meeting can be convened shortly to discuss the projects of Maharashtra if they are modified to meet the criteria of 75% dependability. *pending resolution of larger issues involved, the*
~~However, Subsequently~~ at the end, proposals of Tarali Project and Chilhewadi Project were discussed ~~at the initiative of the Advisor (WR), Planning Commission.~~ *desired* However, Advisor (WR), Planning Commission ~~insisted~~ that in Tarali Project balance utilisation from the run-off of the river should be clearly explained and got approved by the Irrigation Planning Directorate of CWC.

Subsequently, the project Authorities have furnished clarifications in respect of Annual Utilisation under the Tarali Project (copy enclosed at Annex -II). The project authorities have clarified that the utilization proposed from storage of Tarali Dam is 6.54 TMC which is less than the 75% dependable yield at dam site. Balance utilization of 1.70 TMC ($8.24 - 6.54 = 1.70$ TMC) will be met with from the yield available between Tarali Dam and G.D. site, 5km downstream of the dam and this yield is a part of Tarali river. It has also been clarified that there is no existing / under construction or contemplated project for the additional yield available between Tarali Dam and G.D. site at Awarde - Ambale.

In view of above clarification/commitment, the project was considered acceptable by Irrigation Planning (S) Dte. (Copy enclosed at Annex-III).

Keeping in view the above Project proposal is accepted subject to the following conditions:

- (i) Environmental clearance from M/ O Environment and Forests ,
- (ii) Review of design flood studies based on the sites specific short interval observed data, and
- (iii) Monitoring of ground water level in post irrigation stage.

5. DHOM BALAKWADI TUNNEL PROJECT (NEW MAJOR) – MAHARASHTRA.

Estimated Cost	: Rs.475.29 crore (2000 P L)
CCA	: 28,110 ha
Annual Irrigation	: 12,620 ha

Advisor (WR) Planning Commission stated that the irrigation success rate is 82%, which is more than 75% as such it involves higher storage than 75% dependability. The project proposal was not discussed further and was deferred.

6. KIRMIRI DARUR LIS (NEW MEDIUM) - MAHARASHTRA

Estimated Cost	:	Rs.27.29 Crore (1999 -2000 PL)
CCA	:	2261 ha
Annual Irrigation	:	2443 ha

Chief Engineer (PAO) introduced briefly the project proposal. Advisor (WR), Planning Commission mentioned that the cost of annual irrigation @ Rs. 1,14,169 per ha is on higher side mainly due to the electricity charges for lifting water etc. Secretary (Irrigation), Govt. of Maharashtra explained that due to revised water rates in Maharashtra, it is possible to recover the O&M cost of the project and as such, there should not be any problem in taking up the scheme.

After discussions, the Advisory Committee accepted the project proposal.

7. SONAPUR TOMTA LIS (NEW MEDIUM) - MAHARASHTRA

Estimated Cost	:	Rs.32.18 Crore (1999-2000 PL)
CCA	:	2264 ha
Annual Irrigation	:	2441 ha

Advisor (WR), Planning Commission stated that the project is similar to the Krimiri Darur LIS.

After discussions, the Advisory Committee accepted the project proposal.

8. CHILHEWADI IRRIGATION PROJECT (NEW MEDIUM) - MAHARASHTRA

Estimated Cost	:	Rs.146.24 Crore (2000-01 PL)
CCA (Net)	:	7165 ha
Annual Irrigation	:	7138 ha

Proposal of Chilhewadi Irrigation Project was discussed at the end. Advisor (WR), Planning Commission desired to know the irrigation success rate of this project. Director (Appraisal), CWC, Nagpur explained that the live storage is 23.13 hm³, which is 76.51% of the proposed utilisation of 30.23 hm³ and 30.71% of 75% dependable yield of 75.3 hm³ and hence irrigation success rate would be almost 100%. He further added that for medium projects only proforma reports are examined and as such detailed working tables are not insisted. Advisor (WR), Planning Commission advised to obtain irrigation success rate from the project authorities. Subsequently, the Project Authorities submitted monthly working tables, which showed irrigation success rate as 97.44%. On review of the working table in CWC, it is observed that there is a possibility of reducing the gross/live storage capacity of the dam by about 3 hm³ and still achieving success rate of more than 75%.

The project proposal is accepted by the Advisory Committee subject to the following conditions.

- (i) The storage contemplated is reduced as above and revised parameters are submitted to CWC,
- (ii) Concurrence of State Finance Deptt., and
- (iii) Forest clearance from M/o Environment & Forests.

9. PROJECT ESTIMATE FOR CONSTRUCTION OF AMWA KHAS RETIRE RING BUND FROM KM. 0.10 TO 1.10 – UTTAR PRADESH

The Chief Engineer (PAO) explained the project proposal. Chairman, Ganga Flood Control Commission, Patna stated that this scheme has been found viable from techno-economic angle for an estimated cost of Rs.10.368 crore.

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

10. PROJECT ESTIMATE FOR CONSTRUCTION OF AMWA KHAS RETIRE BUND FROM KM. 5.40 TO KM. 7.80 – UTTAR PRADESH

The Chief Engineer (PAO) stated that Govt. of U.P. have requested for temporary withdrawal of the project proposal. Chairman, Ganga Flood Control Commission, Patna stated that some changes are to be incorporated in the proposal. As such, the proposal was not discussed further and deferred.

11. NIRA DEOGHAR IRRIGATION PROJECT (NEW MAJOR) - MAHARASHTRA

Estimated cost	: Rs 870.04 Crore (2000-01 Price level)
CCA	: 62,706 ha
Annual Irrigation	: 40,418 ha

The project was not discussed and deferred.

12. BHAMA ASKHED IRRIGATION PROJECT (NEW MAJOR) – MAHARASHTRA

Estimated cost	: Rs 455.05 Crore (2000-01 Price level)
CCA	: 29,007 ha
Annual Irrigation	: 20,465 ha

The project was not discussed and deferred.

13. URMUDI IRRIGATION PROJECT (NEW MAJOR) - MAHARASHTRA

Estimated cost	: Rs 866.59 Crore (2000-01 Price level)
CCA	: 37,000 ha
Annual Irrigation	: 37,199 ha

The project was not discussed and deferred.

14. GUNJAWANI IRRIGATION PROJECT (NEW MAJOR) – MAHARASHTRA

Estimated cost	: Rs 364.63 Crore (2000-01 Price level)
CCA	: 19,484 ha
Annual Irrigation	: 16,500 ha

The project was not discussed and deferred.

The meeting ended with vote of thanks to the Chair.

LIST OF PARTICIPANTS**MEMBERS OF COMMITTEE:**

S/Shri

- | | |
|--|------------------|
| 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. R.M.Dubey, Director, MOTA, [Representing Secretary, MOTA] | Member |
| 5. Tanmoy Das, Director, HPA, CEA [Representing Chairman, CEA] | Member |
| 6. A.K.Saxena, Deputy Secretary (Finance), MOWR [Representing Finance Advisor, MOWR] | Member |
| 7. R. C. Jha, Chief Engineer, PAO, CWC. | Member Secretary |

Special Invitees:**- Central Water Commission**

1. M.K.Sharma, Member-RM, CWC.
2. V.K.Jyothi, Chief Engineer, KGBO, CWC Hyderabad.
3. S.P.Kakran, Chief Engineer, NBO, CWC, Block-3, Paryavas, Jail Road, Bhopal.
4. Bhagwan Das Pateria, Chief Engineer (IMO), CWC.
5. A. Mahendran, Director, Appraisal Directorate, CWC, CGO Complex, Block-C, 3rd floor, Suninog Hills, Nagpur-440006.
6. S.K.Banerjee, Director (PA-South), CWC.
7. V.K.Chawla, Director (IP-S), CWC.
8. S.K.Srivastava, Director (PA-North), CWC.
9. W.M.Tembhurney, Director (PA-Central), CWC.
10. S.P.Singh, Director (PP-N&S), CWC.
11. S.C.Batra, Deputy Director (PP-N&S), CWC.
12. R.N.Ray, Deputy Director, PA-North, CWC.
13. D.M. Raipyre, Deputy Director, Appraisal Directorate, CWC, CGO Complex, Block-C, 3rd floor, Seminary Hills, Nagpur-440006.
14. Yogesh Paithankar, Deputy Director, CWC, NBO, Block-3, Paryavas, Jail Road, Bhopal.

- Ganga Flood Control Commission – Patna.

1. C.B.Vashista, Chairman.
2. A.K.Ganju, Member (Coord.).

- Planning Commission

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

- Central Electric Authority

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

State Government Officers:**- Andhra Pradesh**

1. T.S. Prakash Rao, Chief Engineer (Investigation), I&CAD Department, Government of Andhra Pradesh, Errum Manzil, Hyderabad-500 482.
2. V.Y.Badarie Narayana, Consultant, Government of Andhra Pradesh, H-203, Naraina Vihar, New Delhi-110 028.
3. N.N.Subramanyam, Executive Engineer, TRTS Division, Vizianagaram (A.P.).

4. A.P.S.Prakasa Rao, Executive Engineer, Peddagdda Reservoir Project Division, Salur, District Vizianagaram.
5. C.G.Sankar Rao, Liaison Officer, No-1 Ashoka Road, A.P.Bhawan, New Delhi.

- Chhattisgarh

1. V.K.Chellani, Chief Engineer, Government of Chhattisgarh, F-5, Irrigation Colony, Katara Talab, Raipur, Chhattisgarh.
2. R.C.Dwivedi, Executive Engineer, W.R. Department, Mongra Project, Raipur.

- Maharashtra

1. S.V.Sodel, Secretary (Irrigation), Government of Maharashtra, Mantralaya, Mumbai-400 032.
2. K.D.Shinde, Executive Director, Maharashtra Krishna Valley Development Corporation, Sinchai Bhawan, Burne Road, Pune, Maharashtra.
3. R.M.Landge, Chief Engineer, Irrigation Department, Pune.
4. E.B.Patil, Chief Engineer (SP), MKVDC, Pune.
5. A.V.Surve, Superintending Engineer, Pune Irrigation Project, Circle, Pune, Maharashtra.
6. P.C. Zapke, Superintending Engineer, Kukadi Project circle, Sinchan Bhawan, Pune, Maharashtra.
7. S.D.Kamble, Superintending Engineer, Satara Irrigation Project Circle, Satara, Maharashtra.
8. S.M.Upase, Superintending Engineer, IPWRI Circle, Central Building, Pune, Maharashtra.
9. D.S. Gaikwad, Superintending Engineer, Nagpur Irrigation Circle, Nagpur.
10. S.S. Dhamdhere, Executive Engineer, Pimpalgaon, Joge Dam Division, Narayangaon, District Pune, Maharashtra.
11. G.K.Hatwar, Executive Engineer, Chandrapur Medium Project Division-1, Chandrapur.
12. K.S.Vemulakonda, Executive Engineer, Medium Irrigation Division, Ghandarpur.
13. Dr. P.K.Pawar, Executive Engineer, Urmodi Dam Division, Satara, Maharashtra.
14. P.V.Deshpande, Executive Engineer, Kanhar Canal Division No.2, Karawadi, Talkarad District, Satara.
15. R.R.Shah, Executive Engineer, Dhoni Balkwadi Project Division, Wai District, Satara.
16. K.G.Devali, Executive Engineer, Designs Division, IP&WRIC, Pune.
17. V.S.Ghogare, Executive Engineer, Nira Deoghar Project Division, Bhore, District Pune.
18. S.D.Rajade, Executive Engineer, Bhama Askhed Dam Division, Sawargate, Pune.
19. B.R.Pawar, Executive Engineer, Chaskaman Project Division, Pune.

- Uttar Pradesh

1. J.S.Chauhan, Chief Engineer (Gandak), U.P. Irrigation Department, Gorakhpur, Uttar Pradesh.
2. K.D.Shukla, Superintending Engineer, Gandak Irrigation Work Circle-II, Gorakhpur, Uttar Pradesh.

Annex - II

NO. camp/cwc office/seva Bhavan/
New Delhi

Satara Irrigation Project Circle, Satara

Dated: 4th Aug. 2003.

To,
The Director,
Irrigation Planning Directorate,
R.No. 226, Seva Bhavan.
New Delhi.

Subject:- Tarali Irrigation Project (Maharashtra).
CWC clearance from your Directorate.

Reference:- TAC note for Tarali Project.

Sir,
With reference to page no. 23 of the above
referred note it is further clarified that:-

- The 75% dependable yield at Tarali Dam site
(C.A. 81.45 sq.km) is 7.31 TMC and G.D. site at
5km D/s of Dam at Awarde-Ambale (C.A. 132 sq.km)
is 9.48 TMC.
- The utilisation of 2.07 TMC for Karad and Patan
talukas is through existing 10 KTweirs D/s of dam
and 7 localised Lift Irrigation Schemes.
- The utilisation proposed from storage of Tarali Dam
is 6.54 TMC. The utilisation of 1.70 TMC shown as
utilisation from Krishna river is actually the yield
of Tarali River but lifted from Krishna river after
the confluence i.e. total utilisation proposed is 8.24
TMC.
- The utilisation in excess of 6.54 TMC i.e. 1.70 TMC
($8.24 - 6.54 = 1.70$ TMC) will be met with from
the yield available between Dam and G.D. site which
is 5km D/s of Dam, but is a part of Tarali River.

"It is clarified that there is no
existing, under construction or contemplated project for the
additional yield available between Tarali Dam and G.D. site
at Awarde-Ambale.

This is submitted for clearance from
your Directorate please.

DA - Index plan.


(S.D. Kamble)

Superintending Engineer.

Copy submitted to:-

Chief Engineer (S.P.), Sinchan Bhavan, Pune for inf. please.

The Director PA (C), CWC New Delhi for information please

Recd by hand
27/8/03
Pl examine on priority

DD-II

29
5/8

भारत सरकार
केन्द्रीय जल आयोग
सिंचाई आयोजन । दक्षिण । निदेशालय


203 (द), सेवा भवन रामकृष्णपुरम्
नई दिल्ली 110066

विषय: Tarali Irrigation Project, Maharashtra.

संदर्भ: State Govt. letter no. C&mp 1/C.W.C office/Sewa Bhawan/ New Delhi,

Dated 4/5th Aug, 2003.

उपरोक्त परियोजना रपट की सिंचाई आयोजन । दक्षिण । निदेशालय । द्वारा जाँच कर ली गई है तथा टिपणियाँ संलग्न हैं ।


का० प्र० (विजय कुमार वावला)
निदेशक सिंचाई आयोजन । दक्षिण ।

निदेशक परियोजना मूल्यांकन । मध्य । (PA-C), केन्द्रीय जल आयोग

क्र. ज. आ. आइ. डी. सं. 2/1245/IP(S)/98³⁵² दि. 6/8/03

Central Water Commission
Irrigation Planning (S) Directorate

Sub: 81st meeting of TAC – Tarali Irrigation Project, Maharashtra – Regarding.

Ref: State Govt. letter no. Comp 1/C.W.C office/Sewa Bhawan/ New Delhi,

Dated 4/5th Aug, 2003.

TAC note of Tarali Irrigation Project was considered in its 81st meeting held on 4.8.03 under the Chairmanship of Secretary, MOWR. As desired during deliberation of the meeting, the Project Authorities have furnished some clarifications in respect of annual utilization under the Tarali project, vide their letter under reference above.

It has been stated that the 75% dependable yield at Tarali dam site and at G.D. site 5 km downstream of dam at Awarde-Ambale is 7.31 TMC and 9.48 TMC respectively. The utilization of 2.07 TMC for Karad and Patan talukas is through existing 10 nos. of K.T. weirs downstream of dam and 7 localised lift irrigation schemes. The utilization proposed from storage of Tarali Dam is 6.54 TMC. The total utilization proposed is 8.24 TMC. The utilization in excess of 6.54 TMC i.e. 1.70 TMC ($8.24 - 6.54 = 1.70$ TMC) will be met with from the yield available between Tarali Dam and G.D. site, 5 km downstream of the dam and this yield is a part of Tarali river. The utilization of 1.70 TMC shown as utilization from Krishna river is actually the yield of Tarali river but lifted from Krishna river after its confluence with Krishna river. Project Authorities have also clarified that there is no existing under construction or contemplated project for the additional yield available between Tarali Dam and G.D. site at Awarde- Ambale.

In view of above clarifications/commitment, the irrigation planning aspects may be considered acceptable.

स्पीड पोस्ट द्वारा / दस्ती
सं० 16/27/2003-परि० मू० (उ०)/303-37

भारत सरकार
केन्द्रीय जल आयोग
परियोजना मूल्यांकन संगठन

सेवा भवन,
रामकृष्णपुरम्
नई दिल्ली-110066
दिनांक : 23 फरवरी, 2004

विषय : सिंचाई, बाढ़ नियंत्रण एवं बहुउद्देश्यीय परियोजनाओं पर सलाहकार समिति की 82वीं बैठक का कार्यवृत्त।

सचिव, भारत सरकार, जल संसाधन मंत्रालय की अध्यक्षता में 19 फरवरी, 2004 को नई दिल्ली में आयोजित सलाहकार समिति की 82 वीं बैठक का कार्यवृत्त सूचनार्थ एवं आवश्यक कार्रवाई हेतु इसके साथ संलग्न किया जाता है।

संलग्नक : यथोपरि (7 पृष्ठ)

भगवान दास पटैरया
23-204
(भगवान दास पटैरया)
मुख्य अभियन्ता (पी.ए.ओ.) एवं
सदस्य-सचिव
फोन/फैक्स नं० 26101593

प्रतिलिपि :

समिति के सदस्य:

1. अध्यक्ष, केन्द्रीय जल आयोग, रामकृष्णपुरम्, नई दिल्ली
2. सचिव (व्यय), वित्त मंत्रालय, नॉर्थ ब्लॉक, नई दिल्ली
3. सचिव, विद्युत विभाग, श्रमशक्ति भवन, नई दिल्ली
4. सचिव, पर्यावरण एवं वन मंत्रालय, पर्यावरण भवन, सी.जी.ओ. कॉम्प्लेक्स, नई दिल्ली
5. सचिव, जनजातीय मामले मंत्रालय, कमरा नं० 603, ए-विंग, शास्त्री भवन, नई दिल्ली
6. सचिव, कृषि एवं सहकारिता विभाग, कृषि भवन, नई दिल्ली
7. महानिदेशक, आई सी ए आर, कृषि भवन, नई दिल्ली
8. अध्यक्ष, केन्द्रीय विद्युत प्राधिकरण, सेवा भवन, रामकृष्णपुरम्, नई दिल्ली
9. अध्यक्ष, केन्द्रीय भू-जल बोर्ड, जाम नगर हाउस, मान सिंह रोड, नई दिल्ली
10. सलाहकार (जल संसाधन), योजना आयोग, योजना भवन, नई दिल्ली
11. सलाहकार (विद्युत), योजना आयोग, योजना भवन, नई दिल्ली
12. वित्तीय सलाहकार, जल संसाधन मंत्रालय, श्रमशक्ति भवन, नई दिल्ली

विशेष आमंत्रित :

13. सदस्य (जल आयोजन एवं परियोजना), केन्द्रीय जल आयोग, नई दिल्ली
14. सदस्य (अभिकल्प एवं अनुसंधान), केन्द्रीय जल आयोग, नई दिल्ली
15. सदस्य (नदी प्रबन्ध), केन्द्रीय जल आयोग, नई दिल्ली
16. आयुक्त (परियोजना), जल संसाधन मंत्रालय, नई दिल्ली
17. आयुक्त (पूर्वी नदियाँ), जल संसाधन मंत्रालय, सी जी ओ कॉम्पलेक्स, ब्लॉक-11, 8वीं मंजिल, लोधी रोड, नई दिल्ली
18. श्री डी. दत्ता, अध्यक्ष एवं प्रबन्ध निदेशक, वाष्कोस, कैलाश, पांचवी मंजिल, 26, कस्तूरबा गांधी मार्ग, नई दिल्ली-110001
19. मुख्य अभियन्ता, सिंचाई विभाग, सिंचन भवन, पुराना सचिवालय कम्पाउण्ड, सिविल लाइन्स, नागपुर-440001
20. मुख्य अभियन्ता (गंगा), उ०प्र० सिंचाई विभाग, साकेत, विक्टोरिया पार्क, मेरठ उ० प्र०
21. मुख्य अभियन्ता, (बेतवा परियोजना), उ० प्र० सिंचाई विभाग, बेतवा भवन, झांसी, उ०प्र०
22. मुख्य अभियन्ता (उपरी गंगा बेसिन), केन्द्रीय जल आयोग, जाहनवी सदन, 21/496, इंदिरा नगर, लखनऊ -226016 (उ०प्र०)
23. मुख्य अभियन्ता (बाढ़ प्रबन्ध संगठन), केन्द्रीय जल आयोग, नई दिल्ली
24. मुख्य अभियन्ता (प्रबोधन-मध्य), केन्द्रीय जल आयोग, सी जी ओ कॉम्पलेक्स, ब्लॉक-सी, तीसरी मंजिल, सेमिनरी हिल्स, नागपुर-440006
25. अभियन्ता प्रमुख, जल संसाधन विभाग, छत्तीसगढ़ सरकार, रायपुर
26. मुख्य अभियन्ता, हसदेव-बांगो परियोजना, जल संसाधन विभाग, नेहरू नगर स्क्वायर के समीप, बिलासपुर, छत्तीसगढ़
27. श्री अजय कुमार अग्रवाल, अतिरिक्त मुख्य अभियन्ता, वाष्कोस, 76-सी, सेक्टर-18, गुडगांव, हरियाणा-122015
28. निदेशक, बाढ़ प्रबन्ध-2, केन्द्रीय जल आयोग, नई दिल्ली
29. निदेशक, परियोजना मूल्यांकन (उ०), केन्द्रीय जल आयोग, नई दिल्ली
30. निदेशक, परियोजना मूल्यांकन (मध्य), केन्द्रीय जल आयोग, नई दिल्ली

प्रतिलिपि सूचनार्थ :

31. आयुक्त एवं सचिव, जल संसाधन विभाग, बिहार सरकार, सिंचाई भवन, पटना-800015 (फैक्स नं० 0612-2225942)
32. सचिव, सिंचाई विभाग, उत्तर प्रदेश सरकार, बापू भवन, लखनऊ-226001(उ०प्र०)
33. सचिव (सिंचाई), महाराष्ट्र सरकार, मंत्रालय, मुम्बई-400032
34. सचिव (जल संसाधन), छत्तीसगढ़ सरकार, रायपुर
35. सचिव, जल संसाधन मंत्रालय के वरिष्ठ प्रधान निजी सचिव, श्रमशक्ति भवन, नई दिल्ली

**ADVISORY COMMITTEE OF MINISTRY OF WATER RESOURCES
FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF IRRIGATION,
FLOOD CONTROL AND MULTI-PURPOSE PROJECT PROPOSALS**

**SUMMARY RECORD OF DISCUSSIONS OF
THE 82nd MEETING HELD ON 19TH FEBRUARY 2004**

The 82nd meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals was held on 19.2.2004 at 1130 hrs. in the Committee Room of Central Water Commission, Sewa Bhavan, R.K.Puram, New Delhi under the Chairmanship of Shri V.K.Duggal, 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 6 projects (New Medium-1, Revised Medium-1, Flood Control-1, New-ERM Major-1 and Revised Major-2) are to be considered in the meeting. He then requested Member-Secretary to put up the project proposals as per agenda. Discussions held and decisions taken by the Committee on the agenda items are summarized as given below:

1. PATHRAI DAM MEDIUM PROJECT - (REVISED-MEDIUM) – UTTAR PRADESH

Estimated Cost	:	Rs.53.53 crore (11/2002 PL)
CCA	:	3,509 ha.
Annual Irrigation	:	2,998 ha.

The Member-Secretary & Chief Engineer (PAO), CWC briefly explained the project proposal. The Advisor (WR), Planning Commission stated that the state Govt. had recently submitted the project completion report for Rs.42.48 crore. As such, how a revised project estimate for Rs.53.53 crore has again been submitted. He also stated that as Jhansi is not covered in the list of districts, which are declared as drought prone areas, B.C. ratio of less than 1.5 can not be considered as acceptable. Engineer-in-Chief, Irrigation Department, Uttar Pradesh clarified that the construction of main works of the project were almost completed and only the R & R plan are to be executed for which cost has been updated keeping the escalation and inadequate provision in the previous estimate.

As regards B.C. Ratio, the project was cleared in the 51st TAC meeting held on 4.12.1991 for B.C. Ratio as 1.43 and accordingly investment clearance was accorded by the Planning Commission in July, 1992. Subsequently, the revised estimate was accepted and cleared by Advisory Committee in its 79th meeting held on 24th May 2002 for B.C. Ratio as 1.12. Since the project is almost nearing completion, B.C. ratio as 1.02 was accepted by Advisory Committee as a special case and the project was cleared by the Advisory Committee **subject to concurrence of State Finance Department.**

2. PROVIDING KHARIF CHANNELS IN HINDON-KRISHNI DOAB (REVISED- MAJOR) - UTTAR PRADESH

Estimated Cost : Rs.92.52 Crore (6/2002 PL)
CCA : 31,420 ha.
Annual Irrigation : 11,600 ha.

The Chief Engineer (PAO), CWC introduced the project proposal. Secretary (WR), enquired about the reasons for increase in the cost of the project since its clearance in previous TAC meeting. The Engineer-in-Chief of the state Govt. clarified that the increase is mainly due to escalation and inadequate provisions in the previous estimates. He further stated that the project is in advance stage of completion. Advisor (WR), Planning Commission desired to know why the earlier cost estimate of Rs.66.34 crore has not been cleared by the State EFC. He further asked the reasons for provision of 78 numbers of new bridges in the present estimate loading this project cost. Engineer-in-Chief, Government of Uttar Pradesh clarified that this provision has been kept after detailed survey and keeping the actual requirements in view at later stage. After detailed discussions, **the Committee accepted the Project proposal subject to the Concurrence of the State Finance Department.**

3. MINIMATA (HASDEO) BANGO MULTIPURPOSE PROJECT (REVISED- MAJOR) - CHHATTISGARH

Estimated Cost : Rs. 1312.32 crore (2002-03 P.L.)
CCA : 2,85,000 ha.
Annual Irrigation : 4,33,500 ha.
Power : 120 MW (3x40 MW)

Chief Engineer (PAO), CWC introduced briefly the project proposal and explained the reasons for variation in cost estimate with reference to approved cost. Adviser (WR), Planning Commission desired to know whether 170% intensity of irrigation is possible to achieve since it is on higher side. The Engineer-in-Chief, Water Resources Deptt., Govt. of Chhattisgarh stated that earlier 157% intensity of irrigation was considered in the approved project proposal of March 1980. The additional 13% intensity was proposed on account of water saving due to canal lining and modifying cropping pattern and this was included while posing the project to World Bank Assistance in 1980. Further, the State Govt. has discouraging paddy crops in summer season.

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

- (1) Concurrence of State Finance Department for Rs.1312.32 crore;**
- (2) Forest clearance for 5.0 ha of forest land required for construction of canal; and**
- (3) Monitoring of ground water level in post irrigation stage for planning conjunctive utilization of ground water is necessary.**

4. MOKAMA TAL DRAINAGE, RAISING AND STRENGTHENING OF JAMINDARI BANDH (74 NOS.) - (NEW - FLOOD CONTROL) - BIHAR

Estimated Cost : Rs. 28.1668 crore

Member-Secretary of the committee briefly explained the Project proposal. Advisor (WR), Planning Commission enquired how the State Govt. would execute and manage the project in the absence of any provision towards establishment. The Secretary (WR), Government of Bihar confirmed that they would execute the project with the existing establishment. The Chairman of the Advisory Committee specially requested the officers of Bihar Government to implement this project successfully so as to set an example for other states. In view of the fact that being the first drainage project, the administrative approval accorded and fully financed by the Government of India.

The Advisory Committee accepted the project proposals.

5. RESTORATION WORKS OF EASTERN GANDAK CANAL (NEW MAJOR - ERM) – BIHAR

Estimated Cost : Rs. 294 crore (2001 PL)
CCA : 480,000 ha.
Annual Irrigation : 662,000 ha.

The Chief Engineer (PAO), CWC introduced the project proposal. The chairman of the Advisory Committee enquired about the background of the project. Advisor (WR), Planning Commission briefly gave the background informations on the project and informed that work of preparation of DPR was awarded to WAPCOS. Secretary (WR), Government of Bihar informed that over 1.5 lakhs cross sections were taken to work out the quantity of earth work and in all Rs. 17 lakhs were spent in bringing out the DPR through WAPCOS. He emphasized the need for automated Gates for smooth operation.

After a brief discussion, the Advisory Committee accepted the scheme subject to the following conditions:

- (i) The quantities of the earth works are subject to correctness as explained by the Secretary, Government of Bihar.**
- (ii) The present approval should be for incomplete works lying in the existing canal system, restoration of canal section and structures as per originally conceived section.**
- (iii) Conjunctive use of surface and ground water in post construction stage of the project in consultation with the State Ground Water Board.**

As regards, automation of the Gates, it was considered to take this item in the second phase of the project.

6. POTHRA NALLA MEDIUM IRRIGATION PROJECT – (NEW-MEIDUM) – MAHARSHTRA.

Estimated Cost : Rs.63.08 crore (1999-2000 price level)
CCA : 8183 ha
Annual Irrigation : 9380 ha

Chief Engineer (PAO), CWC introduced the project proposal in brief. Chairman of the Committee stated that the estimated cost is based on 1999-2000 price level and desired to know whether it is possible to complete the project with this cost since the cost may increase further at current price level. The Secretary (Irrigation), Govt. of Maharashtra clarified that the works are in progress and the project will be completed within this cost. The representative from M/o Tribal Affairs desired to know whether detailed survey for ST Population has been carried out or not. The concerned Project Authorities replied that this has been carried out and detailed RR Plan has already been submitted to the M/o Tribal Affairs, Govt. of India for approval. During the discussions, CE (PAO) stated that the formal Forest clearance has been submitted by the Project Authorities recently.

After brief discussions the project was accepted by the Advisory Committee subject to approval of RR Plan from M/o Tribal Affairs, Govt. of India.

Subsequent upon the discussions on the above six projects, at the request of the Secretary (Irrigation), Government of Maharashtra, one more project namely Dhom Balakwadi Tunnel Irrigation Project (New-Major), Maharashtra, which was earlier deferred in the 81st Advisory Committee and was not included in the present agenda was also taken up for discussion.

7. DHOM BALAKWADI TUNNEL IRRIGATION PROJECT (NEW MAJOR) – MAHARASHTRA

Estimated Cost : Rs.475.29 crore (2000 price level)
CCA : 28110 ha
Annual Irrigation : 12620 ha

Chief Engineer (PAO) explained that the project has been planned on 75% dependable yield and overall utilization is within 75% dependability. However, the success rate is 82%, which is more than 75%, as it involves carry over storage. The Secretary, Government of Maharashtra clarified that the FRL has been kept keeping the power generation in view.

Adviser (WR), Planning Commission agreed to consider this project. Chairman of the Committee categorically mentioned that this project is being considered as an exception and not as a special case.

After brief discussions it was decided to accept the project subject to following observations:

- (i) FRL may be restricted to achieve the irrigation success rate of 75% till such time the Hydro Power generation starts. Moreover, the utilisation should be restricted to 2.79 TMC as planned.
- (ii) Formal forest clearance for diversion of forest from MOEF,
- (iii) Environmental clearance from MOEF,
- (iv) Review of design flood studies based on site specific short interval observed data for the corresponding flood event and submission to CWC for validation, and
- (v) Monitoring of ground water level in post irrigation stage and implementation of conjunctive utilization of ground water as found necessary/feasible.

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

Annexure - I

LIST OF PARTICIPANTS

MEMBERS OF COMMITTEE:

S/Shri

- | | |
|--|------------------|
| 1. V.K.Duggal, Secretary (WR), Ministry of Water Resources. | In the Chair |
| 2. R.Jeyaseelan, Chairman, CWC. | Member |
| 3. A. Sekhar, Adviser-WR, Planning Commission. | Member |
| 4. Niranjana Pant, Jt. Secretary & Financial Adviser, MOWR, New Delhi | Member |
| 5. Dr. Ramesh Chandra, Director, Ministry of Tribal Affairs [Representing Secretary, Ministry of Tribal Affairs] | Member |
| 6. Dr. Arjit Dey, Scientist-D, [Representing Chairman, CGWB] | Member |
| 7. P.C. Jiloha, Deputy Director, CEA [Representing Chairman, CEA] | Member |
| 8. B.D.Pateria, Chief Engineer (PAO), PAO, CWC. | Member Secretary |

Special Invitees:

- Central Water Commission

1. C.B.Vashista, Member (WP&P), CWC, New Delhi.
2. M.K. Sharma, Member (RM), CWC, New Delhi.
3. S.K.Agrawal, Chief Engineer (FM), CWC.
4. V.Saithanyamurthy, Director (ISM), CWC, New Delhi.
5. A.Mahendran, Director (Appraisal), CWC, Nagpur.
6. P.S.Mandal, Director (CA-I), CWC, New Delhi.
7. S.K.Srivastava, Director (PA-N), CWC, New Delhi.
8. W.M. Tembhurney, Director (PA-C), New Delhi.
9. C.L.Wadhawan, Director (FM-II), CWC, New Delhi.
10. S.R.Jagwani, Director (M&A), CWC, Lucknow.
11. R.N. Ray, Deputy Director (PA-N), CWC, New Delhi.
12. R.P.S. Verma, Assistant Director (PA-N), CWC, New Delhi.

- Planning Commission

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

- Ministry of Water Resources

1. K.K.Gupta, Sr. Joint Commissioner (ER), M/o Water Resources, CGO Complex, New Delhi.
2. Bhajan Singh, Director (Finance), M/o Water Resources, S.S.Bhawan, New Delhi.
3. A.D.Chawla, US (B&T), M/o Water Resources, S.S.Bhawan, New Delhi.

- Ganga Flood Control Commission

1. A.K.Ganju, Member (Coordination), GFCC, Patna

- Water & Power Consultancy Services (India) Ltd.

1. A.K.Agarwal, Additional Chief Engineer, WAPCOS, 76-C, Sector-18, Gurgaon, Haryana.
2. P.K.Agrawal, Engineer, WAPCOS, 76-C, Sector-18, Gurgaon, Haryana.
3. Rewati Raman Kumar, STE, Consultant, WAPCOS, Patna.

State Government Officers:

- Bihar

1. V.Jayashankar, Commissioner and Secretary, WRD, Government of Bihar, Sinchai Bhawan, Patna (Bihar.)
2. P.K. Singh, Resident Engineer, WRD, Government of Bihar, B-7 Ext./115, Safdarjung Enclave, New Delhi-29.

- Chhattisgarh

1. N.S.Bhadauria, Engineer-in-Chief, WRD, Government of Chhattisgarh, Shihawa Bhawan, Civil Lines, Raipur.
2. S.K.Sarkar, Chief Engineer, Hasdeo Bango Project, Nehru Chowk, Bilaspur, Chhattisgarh.

- Maharashtra

1. N.D.Vadhere, Secretary, Irrigation Department, Government of Maharashtra, Mantralaya, Mumbai-32.
2. S.V.Sodal, Secretary, CAD, Irrigation Department, Government of Maharashtra, Mantralaya, Mumbai-32.
3. R.M.Landge, CE & Jt. Secretary, Irrigation Department, Government of Maharashtra, Mantralaya, Mumbai-32.
4. E.B.Patil, CE (Sp.), Pune, MKVDC, Irrigation Department, Maharashtra.
5. R.M.Chauhan, Superintending Engineer, Chandrapur Irrigation Project Circle, Chandrapur, Maharashtra.
6. R.R.Shah, Executive Engineer, Dhoni Balkawadi Project Division, At-Wai, District Satara, Maharashtra.
7. K.S.Vemuakonda, Executive Engineer, Minor Irrigation Division, Chandrapur, Maharashtra.
8. A.D. Kadom, Sub Divisional Engineer, Dhoni Balkawadi Project, Sub Division NO.5, Wai, Maharashtra.

- Uttar Pradesh

1. Anand Prakash, Engineer-in-Chief (DR), Irrigation Department, U.P. Cantt Road, Lucknow.
2. L.R.Bansal, Chief Engineer (Ganga), Ganga Bhawan, Saket, Victoria Park, Meerut.
3. U.K.Siddhanta, Superintending Engineer, ICC, Betwa Bhawan, Jhansi.
4. Jay Vilash, Superintending Engineer, Drainage Circle, U.P. Irrigation, Meerut.
5. K.P.Singh, Executive Engineer, Irrigation Construction Division, Meerut.

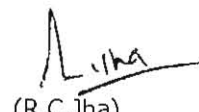
No. 16/27/2004-PA (N)/ 1196 - 1218
GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION
PROJECT APPRAISAL ORGANIZATION
407, SEWA BHAWAN, R. K. PURAM, NEW DELHI-110 066

Date: 16th July 2004

Sub: 83rd meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 18.06.2004.

Enclosed please find a copy of the summary record of discussions of the above meeting held at New Delhi on 18th June 2004 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, 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. Member (RM), CWC, New Delhi.
4. Commissioner (Projects), Ministry of Water Resources, New Delhi.
5. Commissioner (ER), Ministry of Water Resources, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
6. Chairman, Ganga Flood Control Commission, (GFCC), Sinchai Bhawan, Patna-800015 (FAX No. 0612-2222294).
7. Chief Engineer (FMO), CWC, New Delhi.
8. Director, Project Appraisal (North), CWC, New Delhi.
9. Director, FM-II, CWC, New Delhi.

Copy for information to:

10. Secretary, Irrigation & Waterways Department, Government of West Bengal, Jalasampad Bhawan, Bidhan Nagar, Salt Lakes, Kolkata-700 091.
11. Sr. PPS to Secretary, Ministry of Water Resources, New Delhi.

**ADVISORY COMMITTEE OF MINISTRY OF WATER RESOURCES
FOR CONSIDERATION OF TECHNO-ECONOMIC VIABILITY OF IRRIGATION,
FLOOD CONTROL AND MULTI-PURPOSE PROJECT PROPOSALS**

**SUMMARY RECORD OF DISCUSSIONS OF
THE 83rd MEETING HELD ON 18TH JUNE 2004**

The 83rd meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals was held on 18.06.2004 at 16-30 hrs. in the Committee Room of Central Water Commission, Sewa Bhavan, R.K.Puram, New Delhi under the Chairmanship of Shri V.K.Duggal, Secretary(WR), Ministry of Water Resources. A list of participants is enclosed as Annexure-I. The Chairman enquired about the participation by the Government of West Bengal. He was apprised that due to some urgent preoccupation, no senior level officer from Government of West Bengal could attend this meeting. He desired that the Secretary, Government of West Bengal may be informed about the absence of their representation in the meeting and that in specific circumstances at least some junior level officer should have attended the meeting.

The Chairman welcomed the members of the Committee, their representatives and other officers present and intimated that techno-economic viability of an Anti-erosion Scheme **"Protection work on the Left Bank of River Ganga u/s of Farakka Barrage from Spur No.17 in Village Panchanandpur, P.S. Kaliachak, District Malda of West Bengal (Major)-Estimated Cost - Rs 24.05 Cr"** is to be considered in the meeting.

He then requested Member-Secretary to put up the project proposal. Discussions held and decisions taken by the Committee are summarized as given below:

1. PROTECTION WORK ON THE LEFT BANK OF RIVER GANGA U/S OF FARAKKA BARRAGE FROM SPUR NO. 17 IN VILLAGE PANCHANANDPUR, P.S. KALIACHAK, DISTRICT MALDA OF WEST BENGAL - (MAJOR)

Estimated Cost : Rs.24.05 crore

The Member-Secretary & Chief Engineer (PAO), CWC requested Member GFCC to briefly explain the project proposal. Feasibility of under water laying of apron was discussed and explained citing example of similar works executed by the Farakka Barrage Authorities. In response to the queries of the Deputy Secretary (Finance), M/o Water Resources, the Member, GFCC, Patna explained the benefit, Cost and B.C. Ratio of the project proposal. It was agreed that such computations would also be included in TAC notes in future. This was also clarified that no tribal population is affected due to project proposal and no bio-drainage is possible due to inhabitation.

The Adviser (WR), Planning Commission suggested that concurrence of the State Finance Department and a certificate regarding non-involvement of forest land from Forest Department need to be obtained. He also opined that the Government of West Bengal should ensure post project maintenance of the anti-erosion works.

LIST OF PARTICIPANTS

MEMBERS OF COMMITTEE:

S/Shri

- | | |
|---|------------------|
| 1. V.K.Duggal, Secretary (WR), Ministry of Water Resources. | In the Chair |
| 2. R.Jeyaseelan, Chairman, CWC. | Member |
| 3. A. Sekhar, Adviser-WR, Planning Commission. | Member |
| 4. A.N. Das, Deputy Secretary (Finance), MOWR
[Representing Financial Adviser – MOWR] | Member |
| 5. Dr. Ramesh Chandra, Director, Ministry of Tribal Affairs
[Representing Secretary, Ministry of Tribal Affairs] | Member |
| 6. Dr. K.R. Solanki, Assistant Director General (AF), ICAR
[Representing Director General – ICAR] | Member |
| 7. B.D.Pateria, Chief Engineer, PAO, CWC. | Member Secretary |

Special Invitees:

(a) Central Water Commission

1. C.B.Vashista, Member (WP&P), CWC, New Delhi.
2. S.K.Das, Member (D&R), CWC, New Delhi.
3. S.K.Srivastava, Director (PA-N), CWC, New Delhi.
4. C.L.Wadhawan, Director (FM-II), CWC, New Delhi.
5. Sher Singh, Deputy Director (FM-II), CWC, New Delhi.
6. R.N. Ray, Deputy Director (PA-N), CWC, New Delhi.
7. R.P.S. Verma, Assistant Director (PA-N), CWC, New Delhi.

(b) Ministry of Water Resources

1. P.Padmanabhan, Sr. Joint Commissioner (Projects), M/o Water Resources, S.S. Bhawan, New Delhi.

(c) Ganqa Flood Control Commission

1. R.N.P.Singh, Member, GFCC, Patna

(d) State Government Officers:

- West Bengal

No one attended.


No. 16/27/2005-PA (N)/ 779-823
GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION
PROJECT APPRAISAL ORGANIZATION
407, SEWA BHAWAN, R. K. PURAM, NEW DELHI-110 066

Date: 27th May 2005

Sub: 84th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 12.05.2005.

Enclosed please find a copy of the summary record of discussions of the above meeting held at New Delhi on 12th May 2005 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, Jam Nagar House, Man Singh Road, New Delhi-11.
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:

13. Member (WP&P), CWC, New Delhi.
14. Member (D&R), CWC, New Delhi.
15. Member (RM), CWC, New Delhi.
16. Commissioner (Projects), Ministry of Water Resources, New Delhi.
17. Commissioner (PP), Ministry of Water Resources, New Delhi.
18. Commissioner (Indus), Ministry of Water Resources, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
19. Engineer-in-Chief (WRD), Amarkantak Bhawan, Press Complex, Bhopal, Madhya Pradesh.
20. Member (Engineering), Narmada Valley Development Authority, Narmada Bhawan, 59, Area Hills, Bhopal, Madhya Pradesh.
21. Chief Engineer (FMO), CWC, New Delhi.
22. Chief Engineer, Indus Basin, Central Water Commission, Block-4, 6th Floor, Kendriya Sadan, Sector-9, Chandigarh-160 017.
23. Chief Engineer (Monitoring Central), Central Water Commission, CGO Complex, Block-C, 3rd floor, Seminary Hills, Nagpur-440 006 (Maharashtra).
24. Chief Engineer, Irrigation & Flood Control Board, Civil Secretariat, Srinagar-190 001, J&K.
25. Chief Engineer, Irrigation Department, Govt. of Assam, Chandmari, Guwahati-781 003.
26. Chief Engineer, Indira Sagar Project (Canals), Sanawad, Madhya Pradesh.
27. Chief Engineer, Rani Avanti Bai Lodhi Sagar Project, Bargi Hills, Jabalpur, M.P.
28. Chief Engineer, Lower Narmada Projects, D-4, Shopping Complex, A.B.Road, Indore-452 008, Madhya Pradesh.
29. Chief Engineer (North), Irrigation & Public Health Department, Government of Himachal Pradesh, Dharamsala, District Kangra (H.P.)
30. Executive Director, Tapi Irrigation Development Corporation, Sinchan Bhawan, Akashwani Chowk, Jalgaon-425 001 (Maharashtra).
31. Executive Director, MKVDC, Sinchan Bhawan, Barnar Road, Pune, Maharashtra.
32. Chief Engineer, Irrigation Department, Sinchan Bhawan, Barnar Road, Pune, Maharashtra.
33. Chief Engineer, Tapi Irrigation Development Corporation, Sinchan Bhawan, Akashwani Chowk, Jalgaon-425 001 (Maharashtra).
34. Chief Engineer, Water Resources Department, Sinchan Bhawan, Civil Lines, Nagpur-440 001 (Maharashtra).
35. Director (Appraisal), Central Water Commission, CGO Complex, Block-B, 6th floor, Seminary Hills, Nagpur-440 006 (Maharashtra).
36. Director (Mon. & Appraisal), Central Water Commission, Gool House, Timber Road, Indira Colony, Janipur, Jammu-180 007.
37. Director, Project Appraisal (North), CWC, New Delhi.
38. Director, Project Appraisal (Central), CWC, New Delhi.
39. Director (FM-I), CWC, New Delhi.

Copy for information to:

40. Secretary, Irrigation & Flood Control, Government of J&K, Civil Secretariat, Srinagar-190 001, J&K.
41. Secretary, Government of Assam, Irrigation Department, Chandmari, Guwahati-781 003.
42. Principal Secretary, Water Resources Department, Government of Maharashtra, Mantralaya, Mumbai-400 032.
43. Principal Secretary, Narmada Valley Development Authority, Mantralaya, Vallabh Bhawan Bhopal, Madhya Pradesh.
44. Principal Secretary, Irrigation and Public Health Department, Government of Himachal Pradesh, H.P. Secretariat, Simla-171 002.
45. PPS to Secretary, Ministry of Water Resources, New Delhi

CENTRAL WATER COMMISSION PROJECT APPRAISAL ORGANISATION

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

Summary record of discussions of the 84th Meeting of the Advisory Committee of Ministry of Water Resources held on 12th May, 2005.

The 84th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals was held on 12th May, 2005 in the Conference Room of Central Water Commission, Sewa Bhavan, R.K.Puram, New Delhi under the Chairmanship of Shri J. Hari Narayan, Secretary (WR), 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 mentioned that techno-economic viability of 18 projects (New Medium-10, Flood Control -1, New Major - 5 and Revised - 2) are to be considered in the meeting. He then requested the Member-Secretary to take up the project proposals as per agenda. Discussions held and the decisions taken by the Committee on the agenda items have been summarized below:

1. Dhansiri Irrigation Project (Revised Major)-Assam

Chief Engineer, PAO, CWC and Member Secretary, Advisory Committee, explained the project and stated that there is no change in the scope of the project and the cost estimate of the project has been revised (enhanced) mainly due to escalation in price. The Committee was requested to consider the project. The Advisor (WR), Planning Commission requested the project authorities to indicate the completion schedule for the project, to which the project authorities replied that it would be completed by 2006-07 provided adequate funds are made available. The representative, CGWB, mentioned that about 50% of the command area is prone to water logging and no comprehensive planning for conjunctive use of ground water has been made in the project. This needs to be addressed properly in view of the prevailing conditions of waterlogged area and also the fluctuating ground water levels.

After a brief discussion, it was decided to defer the project so that a comprehensive planning for conjunctive use of ground water could be made for the project in consultation with CGWB and included before clearance.

2. Champamati Irrigation Project (Revised Major)- Assam

Member Secretary, Advisory Committee, explained the project and added that since there is no change in the scope of the project, the cost estimate of the project has been revised (enhanced) mainly due to escalation in the price. The Committee may consider the project. The representative, CGWB, pointed out that planning for conjunctive use of ground water has not been made in the project at the planning stage itself, which needs to be considered.

After a brief discussion, it was decided to defer the project till a comprehensive planning for conjunctive use of ground water has been made for the project in consultation with CGWB.

3. Swan River Flood Management and Integrated Land Development project Phase-II (New – Flood Control) – Himachal Pradesh

Member Secretary, Advisory Committee, explained that the project. Phase-I of the project has already been approved by the Planning Commission for investment clearance. Subsequently, the Government of Himachal Pradesh has proposed the 2nd phase. Chairman (Advisory Committee) queried about the environmental considerations involved in the project particularly with regard to the financial burden, if any, that may accrue due to such considerations. The representative of Government of Himachal Pradesh explained that no environmental concerns were there even in the phase -I and as such, it may have no implications in this phase also. With the above explanation, the project was considered acceptable by the Committee.

4. Modernization of Mav Khul (New – Medium) –J & K

Member Secretary, Advisory Committee, explained the project. The Advisor (WR), Planning Commission mentioned that the increased capacity of the canal needs to match with the increased irrigated command area proposed in the project. After a brief discussion on the project, it was decided that fresh note may be prepared following the CWC guidelines for modernization projects for consideration of the Advisory Committee indicating and reflecting proper technical and economic parameters and till such time, the project may be considered as deferred by the Committee.

5. Modernization of Nandi Canal (New – Medium) –J & K

Member Secretary, Advisory Committee, introduced the project. While discussing about the project, a need was felt to prepare a fresh note for this project also for consideration of the Advisory Committee in line with that for Mav Khul Project. Till such time the project may be considered as deferred by the Committee.

6 Lower Goi Irrigation Project (New – Major) Madhya Pradesh

Member Secretary, Advisory Committee, explained the project. On a query by Chairman (Advisory Committee) regarding para 7 of the TAC note pertaining to "Water Accounting and Inter-State aspects", the Advisor (WR) Planning Commission explained about the water allocated by Narmada Water Disputes Tribunal Award to Madhya Pradesh. The representative, CGWB, pointed out that although ground water exploitation in the region amounts to about 83 to 85%, even then, proper conjunctive use planning for surface and ground water needs to be introduced for the project in the planning stage itself starting with the 10% of the command area of the project, to which Chairman (Advisory Committee) pointed out that as parts of the area have already been critically exploited, such approach has to be judiciously applied. CE (PAO) added that the project will lead to the recharging of aquifers of the area. Joint Secretary & Financial Advisor (WR) stressed the need for adopting the Single Window Clearance of the project proposals. Since the Ministry of Tribal Affairs has not yet cleared the project and the revised R&R Plan is yet to be submitted by the State Govt. to MOTA, it was decided to defer the project.

7 Punasa Lift Irrigation Scheme (New Major) – Madhya Pradesh

Member Secretary, Advisory Committee, explained the project. After a brief discussion on the project, Chairman (Advisory Committee) opined that the project may be considered acceptable only after para 14 of the TAC note is properly addressed by CWC.

8 Halon Irrigation Project (New – Major)- Madhya Pradesh

Member Secretary, Advisory Committee, explained the project. Secretary (WR) requested the representative of the M/o Tribal Affairs to inform the status of the project, to which it was replied that the State Govt. recently submitted the R&R plan to them, which needs to be examined by MOTA. As 149.33 ha of forestland is involved in the project, Chairman (Advisory Committee) requested the project authorities to intimate about the provisions for compensatory afforestation. The State authorities clarified that adequate provision for compensation for forestland has been kept in "B-Land" in the estimate. Summing-up the discussions on the project, the Chairman (Advisory Committee) concluded that the State authorities need to expedite the environmental and forest clearance from MOE&F and the project may be treated as deferred.

9 Upper Narmada Irrigation Project (New – Major)- Madhya Pradesh

Member Secretary, Advisory Committee, explained the project. Since the project involves rehabilitation of 1382 families, the R&R plan for the project needs to be examined and cleared by MOTA. After a brief discussion on the project, Chairman (Advisory Committee) remarked that para 12 of the TAC note needs to be properly

addressed by CWC/project authorities and clearance of R&R Plan needs to be expedited. It was decided to defer the project.

10 Punand Irrigation Project (Revised – Major)- Maharashtra.

Member Secretary, Advisory Committee, explained the project and mentioned that Punand Irrigation Project was earlier considered by the Advisory Committee in its 44th meeting held on 22nd Sept 1989 and was found acceptable subject to certain conditions. Subsequently, the state Govt. submitted requisite compliances. State Govt. submitted the updated Cost Estimate, which has been examined in C.W.C. and finalized for Rs 157.78 crore (PL 2004-05). Advisor (WR), Planning Commission pointed out that, although yields vary for all projects in Tapi basin, it appears that sufficient water is available for this project as mentioned in the TAC note and the hydrology for the project appears to be in order. As regards the yields and hydrology for the projects of Tapi basin under consideration by the Advisory Committee, the State authorities explained that 191.4 TMC of Tapi water has been allocated to Maharashtra. Secretary (WR) pointed out to para (i) of Annexure IV of the TAC note regarding Catchment Area treatment programme and enquired the state authorities regarding its status. The state authorities mentioned that about 50% of the Catchment area treatment work has already been completed. Further, regarding the rehabilitation programme, the state authorities mentioned that about 1100 families have already been rehabilitated.

After brief discussions on the project, the project was found acceptable by the Advisory Committee.

11 Sapan River Medium Irrigation Project (New – Medium) Maharashtra

Member Secretary, Advisory Committee, explained the project. Since the project involves rehabilitation of 1108 persons, Secretary (WR) requested the representative of MOTA and also the State authorities to indicate the status of the project. The State authorities replied that they have submitted the R&R Plan to their State authorities on Tribal Affairs, which in turn will be submitting to MOTA, Govt. of India with the recommendations of State Govt. Chairman, CWC mentioned that hydrology of the project, particularly yield as calculated for the project does not appear to be in order. Specific yield per sq. km of catchment varied widely to the extent of seven times in the projects put up to the TAC. This needs to be rechecked and rectified. The State authorities explained that yield has been calculated based on experience. However, concluding discussions on the project, Chairman (Advisory Committee) mentioned that the project may be treated as deferred in view of the hydrology review, para 13 of the TAC note and the clearance of MOTA, which is still awaited.

12 Sulwade Barrage Project (New – Medium)- Maharashtra

Member Secretary, Advisory Committee, explained the project. The Advisor (WR), Planning Commission mentioned that since it is a lift irrigation scheme, it is proposed that beneficiaries should also contribute to the project. The project authorities

clarified that as regards the charging from beneficiaries for lifting the water, requisite provision has been made and the cooperative societies have already been working on this.

Chairman, CWC mentioned that the yield calculated for the project needs to be rechecked in an integrated manner comparing with other projects in view of large variations in specific yields of different catchments to the extent of seven times among each other. Moreover, for projects in main river, hydrology cannot be taken as contributed from local free catchment only. Overall hydrologic site-specific assessment needs to be made for the basin. Chairman (Advisory Committee) while concluding discussions on the project mentioned that as hydrology for the project needs to be reviewed, also para 13 of the TAC note needs to be properly addressed, as such, the project may be treated as deferred.

13 Prakasha Barrage Project (New – Medium) Maharashtra

Member Secretary, Advisory Committee, explained the project. Discussions on the above project proceeded in the same manner as for Sulwade Barrage and it was concluded that as the hydrology for the project needs to be reviewed/revised, the project was deferred by the Advisory Committee.

14 Kamani Tanda Project (New – Medium)- Maharashtra

Member Secretary, Advisory Committee, explained the project. Secretary (WR) draw attention to the fact that success of downstream Waghur project is linked with this Project as per point 3 under para 13 of the TAC note, and also the yield for the project needs to be properly established, the project was deferred by the Committee.

15 Sarangkhedda Barrage Project (New – Medium) Maharashtra

Member Secretary, Advisory Committee, explained the project. It was observed that for this project also hydrology needs to be reviewed keeping in view the suggestions given by Chairman, CWC as in the case of other two barrages on main river Tapi discussed earlier in this meeting. As the hydrology for the project needs to be reviewed/revised, the project was deferred by the Advisory Committee.

16 Gul River Medium Irrigation Project (New – Medium) Maharashtra

Member Secretary, Advisory Committee, explained the project. Chairman, CWC enquired about the location of the main canal of Hatnur project which crosses this river, to which the project authorities clarified that the canal of Hatnur project passes down stream of the proposed Gul project and the command area of Gul project does not cross or overlap Hatnur command.

After brief discussions, the project proposal was found to be acceptable by the Advisory Committee.

17 Haranghat (LIS) Project (New – Medium) Maharashtra

Member Secretary, Advisory Committee, explained the project. Commissioner (PR), MOWR pointed out whether the project authorities could not make adjustments in Gosikhurd project itself for the overlapping area of 1233 ha instead of Haranghat project. The project authorities explained that since the command area of Gosikhurd Project is more than 2.5 lakh ha, it would be possible to make such adjustments in Gosikhurd project. But as the Gosikhurd project may take 25 to 30 years for implementation, Haranghat project has been proposed by the Govt. of Maharashtra for meeting the immediate requirement.

After brief discussions, the project proposal was found to be techno-economically viable by the Advisory Committee.

18. Wang Irrigation Project (New – Medium) Maharashtra

Member Secretary, Advisory Committee, explained the project. Chairman (Advisory Committee) pointed out that since 2nd KWDT has already been constituted, it would not be appropriate to consider this project for clearance, as it is located in Krishna basin. However, the project authorities requested that technical clearance to the project may be accorded by the Advisory Committee, as the utilization was within the KWDT Award for Maharashtra. The Advisory Committee could not accept this contention and decided to defer this project.

Advisor (WR), Planning Commission gave a general suggestion that financial return may be worked out for all projects. Irrigation planning for the projects should take into account the agro climatic zone demarcation in vogue as per guidelines issued earlier. Also the per hectare maintenance cost may be taken as Rs.600/ha in line with the recommendations of the Twelfth Finance Commission.

LIST OF PARTICIPANTS

MEMBERS OF COMMITTEE:

S/Shri

1. J. Hari Narayan, Secretary (WR), MOWR, New Delhi.	In the Chair
2. R.Jeyaseelan, Chairman, CWC, New Delhi.	Member
3. A. Sekhar, Adviser (WR), Planning Commission, New Delhi.	Member
4. Niranjan Pant, Financial Adviser – MOWR, New Delhi.	Member
5. Dr. R.M.Dubey, Director, Ministry of Tribal Affairs , New Delhi. [Representing Secretary, Ministry of Tribal Affairs]	Member
6. Dr.D.K.Paul, Principal Scientist, ICAR, New Delhi. [Representing Director General – ICAR]	Member
7. R.C .Jain, Superintending Hydrologist, New Delhi. [Representing Chairman, CGWB]	Member
8. R.K. Rustagi, Director, (H.P.A), CEA, New Delhi. [Representing Chairman, CEA]	Member
9. C.M. Pandey, Dy Commissioner, Ministry of Agricultural, New Delhi [Representing Secretary, Ministry of Agricultural]	Member
10. R.C. Jha, Chief Engineer, PAO, CWC. , New Delhi.	Member Secretary

Special Invitees:

(a) Central Water Commission.

1. S.K.Das, Member (WP&P), CWC, New Delhi.
2. M.K.Sharma, Member (RM), CWC, New Delhi.
3. S.K.Agarwal, Chief Engineer (FM), CWC, New Delhi.
4. M. Ilangovan, Chief Engineer (MCO), CWC, Nagpur.
5. S.C.Gupta, Chief Engineer (IB), CWC, Chandigarh.
6. A.Mahendran, Director (M&A), CWC, Nagpur.
7. Sanjiv Aggarwal, Director (FM-I), CWC, New Delhi.
8. V.N.Wakpanjar, Director (PA-N), CWC, New Delhi.
9. S.R.Jagwani, Director (PA-C), CWC, New Delhi.
10. K.K.Singh, Director (M&A), CWC,Jammu.
11. R.N. Ray, Deputy Director (PA-N), CWC, New Delhi.
12. S.P.Abraham, Deputy Director (PA-N), CWC, New Delhi.
13. T.D.Sharma, Deputy Director (PA-C), CWC, New Delhi.
14. R.P.S. Verma, Assistant Director (PA-N), CWC, New Delhi.

(b) Ministry of Water Resources

1. A.D.Bhardwaj, Commissioner, (Projects), M/o Water Resources, New Delhi.
2. P.Padmanabhan, Sr. Joint Commissioner (Projects), M/o Water Resources, , New Delhi.

(c) Central Electricity Authority.

1. P K.Garg, Dy Director, (HPA), New Delhi.

(d) State Government Officers:

- Assam

1. H.K.Hazarika, Chief Engineer, Irrigation Dptt. Gauhati, Assam
2. A.H.Khan, Executive Engineer, Chakpanali Canal Dn-1., Dhaligar, Assam.

- Himachal Pradesh

1. D.K. Gupta, Chief Engineer, North (I&PH), Dharamsala,
2. R. K. Dogra, Superintending Engineer, IPH Circle, Una.
3. C.L. Sood, , Superintending Engineer, IPH Circle-II, Shimla.
4. Abinder.S.Chadha, Executive Engineer, Flood Forcating Division, Gagreat, Una

- Jammu & Kashmir

1. R.A.Kamili, Chief Engineer, Irrigation & FC, Srinagar.
2. Z.A. Bandy, Executive Engineer, Irrigation & Flood Control Division, Srinagar.

- Madhya Pradesh

1. Ramcharan , Chief Engineer, R.A.BLS, Project, Bagrihills, Jabalpur.
2. M.L.Raghuwanshi, Chief Engineer, ISP, Sanawad, Khargone.
3. R.K. Choudhay, Chief Engineer, L.N.Z, Indoor.
4. K.C.Prajapati, Superintending Engineer, R.A.B S, Canal Cell, Bagrihills, Jabalpur.
5. P.C Diwan, Executive Engineer, N.D.Div No-12 Rajpur.

- Maharashtra

1. S. N.Huddar, Chief Engineer(WR) & Jt. Secy. WR Deptt. Mantralaya, Mumbai.
2. A.A. Jawaalekar, Ex. Director, Tapi Irri.Dev. Corp. Jalga. V.
3. A.B. Patil, Chief Engineer, Tapi Irri.Dev. Corp. Jalga. V.
4. E.B. Patil, Chief Engineer(SP) , MKVDC, Pune.
5. R.W. Nikum, S Superintending Engineer, Nashik Irr. Proj. Circle, Dhulea.
6. P.C Gholap, Superintending Engineer, Satara Irri. Proj. Circle, Satara.
7. Mukesh Rane, Superintending Engineer, Chandrapur Irri.Proj. Circle, Chandrapur.
8. D.R.Kandi, Superintending Engineer, Akola Irrigation Circle, Akola.
9. V.D. Patili, Superintending Engineer, J.I.P.C, Jalga. V.
10. U.V. Siddermal, Executive Engineer, Minor Irri. Div. Satara.
11. R.A. Katpalliwari, Executive Engineer, Minor Irri. Div. Chandrapur.
12. S.S.Pagarl, Executive Engineer, DMPD-2, Sinchan Bhawan, Dhule.
13. A.N. Pawar, Executive Engineer, U.G.P.Nagpur.
14. S.R. Borse, Executive Engineer, DMPD.NO-1.Dhule.
15. N.J.Bambal, Executive Engineer, A.I. Div. Amaravati..
16. R. N. Patel, Dy- Engineer, DMP.Dn-2, Dhule.

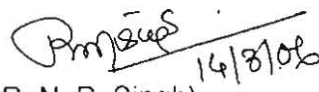
No. 16/27/2006-PA (N)/ 454 - 89
GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION
PROJECT APPRAISAL ORGANIZATION
407, SEWA BHAWAN, R. K. PURAM, NEW DELHI-110 066

Date: 14th March, 2006

Sub: 85th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 22.02.2006.

Enclosed please find a copy of the summary record of discussions of the above meeting held at New Delhi on 22nd February 2006 for information and necessary action.

Encl.: As above.


(R. N. P. Singh)
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, Jam Nagar House, Man Singh Road, New Delhi-11.
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.

Copy to :-

- 13) Commissioner (Projects), Ministry of Water Resources, New Delhi.
- 14) Commissioner (Indus), MOWR, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
- 15) Chief Engineer (PPO), CWC, New Delhi.
- 16) Chief Engineer (FMO), CWC, New Delhi.
- 17) Chief Engineer (PMO), CWC, New Delhi.
- 18) Chief Engineer, (NBO), Central Water Commission, Block-3, Ground Floor, Paryawas Bhawan, Mother Teresa Marg, Arera Hill, Bhopal-462 011.
- 19) Chief Engineer, Indus Basin, Central Water Commission, Block-4, 6th Floor, Kendriya Sadan, Sector-9, Chandigarh-160 017.
- 20) Chief Engineer, Irrigation & Flood Control Board, Civil Secretariat, Srinagar-190 001, J&K.
- 21) Chief Engineer, Irrigation Department, Govt. of Assam, Chandmari, Guwahati-781 003.
- 22) Chief Engineer, Sriram Sagar Project (Stage-II & FFC), Warangal, A.P.
- 23) Chief Engineer, (Drainage), Irrigation Works, Sector 18 B, Hydrel Building, Chandigarh-160018.
- 24) Chief Engineer, Tapi Irrigation Development Corporation, Sinchan Bhawan, Akashwani Chowk, Jalgaon-425 001 (Maharashtra).
- 25) Chief Engineer, Wain Ganga Basin, WRD, Govt of M.P, Seoni, M.P.
- 26) Director (Mon. & Appraisal), Central Water Commission, Gool House, Timber Road, Indira Colony, Janipur, Jammu-180 007.
- 27) Director, Project Appraisal (Central), CWC, New Delhi.
- 28) Director, Project Appraisal (South), CWC, New Delhi.
- 29) Director, Appraisal), CWC, CGO Complex, Block-B, 6th floor, Seminary Hills, Nagpur-440006.
- 30) Secretary, Irrigation & Flood Control, Government of J&K, Civil Secretariat, Srinagar-190 001, J&K.
- 31) Secretary, Government of Assam, Irrigation Department, Block B, 2nd Floor, Assam Secretariate, Dispur, Guwahati-781 006.
- 32) Secretary, Water Resources Department, Government of Maharashtra, Mantralaya, Mumbai-400 032.
- 33) Principal Secretary, WRD, Mantralaya, Vallabh Bhawan, Bhopal, Madhya Pradesh.
- 34) Secretary (Projects), Irrigation & CAD Dept, Secretariate, Govt of A.P, Hyderabad-500001.
- 35) PPS to Secretary, Ministry of Water Resources, New Delhi.

**SUMMARY RECORD OF DISCUSSIONS OF THE 85TH MEETING OF THE
ADVISORY COMMITTEE OF MINISTRY OF WATER RESOURCES HELD
ON 22.02. 2006**

The 85th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Projects proposals was held on 22nd February, 2006 at 1500 Hrs. in the Conference Room of Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi under the Chairmanship of Secretary (WR), Ministry of Water Resources. A list of participants is enclosed at Annexure-I.

The Chairman welcomed the members of the Committee, and other officers present and mentioned that techno-economic viability of 9 projects (Flood Control - 1, New Major - 3 and Revised - 2, ERM - 3) is to be considered in the meeting.

Thereafter, the Chairman requested the Members to express their views/opinion regarding obtaining concurrence of State Finance Departments and other clearances such as Environment & Forest from MOEF and R&R Plan from MOTA, prior to consideration of project by the Advisory Committee.

Discussions held and the decisions taken by the Committee on the agenda items are summarized below.

(a) Concurrence of State Finance Department (CSFD)

On the issue whether the CSFD for a Project is required prior to its consideration by the Advisory Committee, Advisor (WR) mentioned that the Projects are normally considered first by the TAC and CSFD obtained subsequently after TAC acceptance of cost, although as per guidelines this is to be obtained before TAC. Advisor-WR and some other TAC members said that often the State Finance Departments wanted their respective Irrigation Departments to get the clearance of TAC before they incorporated the related projects in their scheme of things. Member-Secretary & CE-PAO pointed out that the CSFD is required for the finalised cost which is available only after the appraisal of the Project by CWC is complete.

JS & FA of MOWR said that: TAC was considering the proposal of the State Government, and not that of its Finance Department. TAC itself is a high level an inter-ministry committee, which brings to bear on the techno-economic clearance the unified, and not sectoral wisdom of the Central Government. The guidelines, therefore, rightly and expressly provide that *'CWC would finalise the cost, BC ratio, internal rate of return, etc and the State Government will obtain concurrence of the State Finance Department for this finalized cost. The project proposal will thereafter be put up to the advisory committee for clearance, which would be, by and large, like single*

window clearance'. He said that obtaining required clearances was not just a matter of procedure. It has, especially in the context of thin spreading of fiscal resources by States in their Irrigation projects, a substantive import. TAC must therefore have an equivocal and unified commitment of the State Government as regards their acceptance of cost estimates as proposed including CSFD. He mentioned that Chairman-TAC & Secretary-WR had advised Chairman-CWC on the same lines accordingly through a letter after last (84th) meeting of TAC. He pointed out that none of the 9 proposals before TAC had CSFD; and, were therefore, not ripe for TAC's consideration. He requested that his views, made in his capacity as JS-FA & member TAC as well as a nominated representative of Secretary-Expenditure should be formally brought on record.

Secretary pointed out that State Governments do not accord their administrative approval to Projects requiring the clearance from the Central Water Commission unless such clearance is in place. Hence, an insistence, that the clearance by the Finance Department of a State Government prior to the TAC clearance, would place the Projects in a circular situation. In this view of the matter, therefore, the Advisor, Planning Commission agreed that the financial aspects would be examined while considering investment clearance of the Project.

After further deliberation Committee decided that this aspect may not be linked with the meeting of the Committee.

(b) Clearance by Ministry of Environment & Forests and/or by Ministry of Tribal Affairs

The above issues were discussed in the light of the provisions in para 2.5 of "Guidelines for submission, appraisal and clearance of irrigation and multipurpose projects – 2002 by CWC, MOWR" which reads as "The Project Authorities shall ensure that all necessary actions are taken to obtain clearances from the above mentioned Ministries well in time after due appraisal and DPR is submitted along with these clearances, whenever required". Accordingly, it was decided that the Project Authorities should obtain the clearances from the above mentioned Ministries before the Project is considered by the Advisory Committee.

Thereafter Project-wise discussions were taken up which is summarized below:

1. Dhansiri Irrigation Project (Major), Assam – Revised Estimate

C.E., PAO briefly introduced the Project and mentioned that the Project was considered in the 84th Advisory Committee meeting and was deferred for want of conjunctive use planning. Subsequently, the Project Authorities have submitted clarifications and intimated that the aspect of conjunctive use would

be considered under the State CAD Programme on completion of the project, which has also been concurred by CGWB. After brief discussion, the Project was found acceptable by the Committee.

2. Champamati Irrigation Project (Major), Assam – Revised Estimate

C.E., PAO intimated that the Project was also considered in the 84th meeting of the Advisory Committee and was deferred for want of conjunctive use planning. Subsequently, the Project Authorities submitted clarifications and intimated that the aspect of conjunctive use would be considered under the State CAD Programme on completion of the project, which has also been concurred by CGWB. After brief discussion, the Project was found acceptable by the Committee.

3. Mav Khul Irrigation Project (Medium), J&K - ERM

C.E., PAO briefly introduced the Project and indicated that it is basically an ERM Scheme. As regards the environment clearance by the MOEF, Advisor (WR), Planning Commission mentioned that since it is an ERM Project and its additional CCA is less than 10,000 ha environmental clearance is not required. After brief discussions, the Project was found acceptable. It was also suggested that the para-9 of the TAC note, regarding environment clearance, may be modified as under "Further since the scheme being ERM and its additional CCA is less than 10000 ha and also cost less than Rs. 100 crore the environment clearance from MOEF is not required".

4. Nandi Canal Irrigation Project (Medium), J&K - ERM

Discussions on the above project proceeded in line with the previous Project and after a brief discussion, the project was found acceptable. Similar to Mav Khul Irrigation Project, it was also suggested that the para-9 of the TAC note, regarding environment clearance, may be modified as under "Further since the scheme being ERM and its additional CCA is less than 10000 ha and also cost less than Rs. 100 crore the environment clearance from MOEF is not required".

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This scheme was also discussed and was found acceptable. Similar to Mav Khul Irrigation Project, it was also suggested that the para-9 of the TAC note, regarding environment clearance, may be modified as under "Further since the scheme being ERM and its additional CCA is less than 10000 ha and also cost less than Rs. 100 crore the environment clearance from MOEF is not required".

6. Sriram Sagar Project Stage-II (Major), AP - New

C.E., PAO introduced the above project indicating that, SRSP Stage-II, AP was earlier accepted by the TAC subject to certain observations in its meeting held on 3.4. 1996. Subsequently, the State Government modified the project proposal and this proposal has been examined in CWC/MOWR and found techno-economically viable. Advisor (WR), Planning Commission pointed out that the proposal is in order, however, a brief detail in respect of calculations for BC ratio for the Ground water development may be supplied by the Project Authorities. Also, the Project Authorities should ensure that the provision for drinking water supply to the tune of 5.5 TMC as approved for SRSP Stage-I and 0.244 TMC as proposed in SRSP Stage-II is sufficient to meet the drinking water requirements for the towns/cities and the rural drinking water supply covered in the above project proposals, especially Karim Nagar water supply where 1.76 TMC is proposed to be drawn from SRSP reservoir, JS-FA, MoWR pointed out that the Project was already under implementation, and was being presented for post-facto acceptance by TAC. He said whether it would be in order to do so in the light of decision taken in the 30th meeting of TAC which had categorically stated: *'Where unapproved projects have been taken up for implementation by the States and substantial expenditure have been incurred or commitments made on such projects, or where the original sanctioned cost of an approved project has been substantially exceeded without approval, and the cases came before the TAC at a very late stage when no real examination is possible and what is sought is merely the formality of an ex-post-facto approval, as such the committee need not accord such an approval but could leave the irregularity un-regularised, and might request the Planning Commission to convey the irregularity to the State'*.

After brief discussions, since the project does not fall in above category it was found acceptable for clearance.

7. Sulwade-Jamphal-Kanoli Lift Irrigation Scheme (Major), Maharashtra - New

C.E., PAO briefly described the Project proposals. During discussions Chairman indicated that since the above project is in Tapi Basin, it would be appropriate to consider this project along with other projects of Maharashtra in Tapi Basin in the next TAC meeting.

In view of above, the Project was deferred.

8. Pench Diversion Project (Major), MP - New

C.E., PAO briefly described about the Project proposals and mentioned that the Project has been considered earlier and found acceptable by the

Advisory Committee in its 41st meeting held on 25.10.1988 for an estimated cost of Rs.184.04 crore subject to concurrence of State Finance Department and approval of Rehabilitation and Resettlement from Ministry of Welfare. However, Planning Commission did not recommend this project for inclusion in the VIII Five Year Plan in view of the strategy to first complete the ongoing schemes. Subsequently, the modified Project Report received from State Government has been examined in CWC/MOWR and found techno-economically viable.

During discussion on the project, Advisor (WR), Planning Commission mentioned that as per the TAC note of the present proposal the R&R Plan of the project was cleared by Ministry of Tribal Affairs in November, 1990, and the revised R&R Plan is not required to be got cleared again from Ministry of Tribal Affairs. The Project Authorities were also requested to confirm the aspects of earlier clearance by MOTA to the above project, to which the Project Authorities supplied necessary clarifications. Then, the Project was accepted by the Committee for investment clearance as all clearances including environment have been obtained.

9. Canalisation Sakki-Kiran Nalla (Flood Management) - Punjab

C.E., PAO introduced the project proposal to the Committee. Initiating discussions on the project proposal, the Advisor (WR), Planning Commission requested the Project Authorities to clarify whether the above proposal may be considered as "Drainage Scheme" or as an Irrigation cum Drainage Scheme, to which the Project Authorities confirmed that the above scheme may be considered as a Drainage Scheme in the Flood Sector.

After brief discussion, the Project proposal was found acceptable by the Committee and recommended for investment clearance as environment clearance has already been obtained.

After discussions on the Projects, the Chairman of the committee initiated discussions on the other items as per the Agenda which basically related to Benefit Cost Ratio computation. After discussions, it was decided that a Note on the issues may be prepared in consultation with the other concerned agencies and brought up before Advisory Committee.

The meeting ended with vote of thanks to the Chair.

LIST OF PARTICIPANTS

MEMBERS OF COMMITTEE:

S/Shri

- | | |
|---|------------------|
| 1. J. Hari Narayan, Secretary (WR), MOWR, New Delhi. | In the Chair |
| 2. R.Jeyaseelan, Chairman, CWC, New Delhi. | Member |
| 3. A. Sekhar, Adviser (WR), Planning Commission, New Delhi. | Member |
| 4. Niranjana Pant, Financial Adviser – MOWR, New Delhi. | Member |
| 5. R.C. Jain, Superintending Hydrologist, New Delhi.
[Representing Chairman, CGWB] | Member |
| 6. R.K. Rustagi, Director, (H.P.A), CEA, New Delhi.
[Representing Chairman, CEA] | Member |
| 7. R.N.P. Singh, Chief Engineer, PAO, CWC. , New Delhi. | Member Secretary |

Special Invitees:

(a) Central Water Commission.

1. S.K.Das, Member (D&R), CWC, New Delhi.
2. B.S Ahuja, Member (WP&P), CWC, New Delhi.
3. S.K. Agarwal, Member (RM), CWC, New Delhi.
4. B.P. Singh, Chief Engineer (FM), CWC, New Delhi.
5. V. K. Jyoti, Chief Engineer (KGB), CWC, Hyderabad.
6. S.C.Gupta, Chief Engineer (IB), CWC, Chandigarh.
7. R.K. Khanna, Chief Engineer (PPO), CWC, New Delhi.
8. C.P. Singh, Director (FM-I), CWC, New Delhi.
9. V.N.Wakpanjar, Director (PA-N), CWC, New Delhi.
10. S.R.Jagwani, Director (PA-C), CWC, New Delhi.
11. N.M. Saha, Director (PA-S), CWC, New Delhi.
12. A.K. Gautam, Director (Eco.), CWC, New Delhi.
13. K.K.Singh, Director (M&A), CWC,Jammu.
14. R.N. Ray, Deputy Director (PA-N), CWC, New Delhi.
15. T.D.Sharma, Deputy Director (PA-C), CWC, New Delhi.
16. R.P.S. Verma, Deputy Director (PA-N), CWC, New Delhi.
17. Yogesh Paithankar, Deputy Director (M&A), CWC,Bhopal.

(b) Ministry of Water Resources

1. Indra Raj, Commissioner (Projects), M/o Water Resources, New Delhi.
2. D.K. Mehta, Commissioner (Indus), M/o Water Resources, , New Delhi.

(c) Central Electricity Authority.

1. R.K.Garg, Dy Director, (HPA), New Delhi.


No. 16/27/2006-PA (N)/ 454 - 89
GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION
PROJECT APPRAISAL ORGANIZATION
407, SEWA BHAWAN, R. K. PURAM, NEW DELHI-110 066

Date: 14th March, 2006

Sub: 85th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 22.02.2006.

Enclosed please find a copy of the summary record of discussions of the above meeting held at New Delhi on 22nd February 2006 for information and necessary action.

Encl.: As above.


(R. N. P. Singh)
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, Jam Nagar House, Man Singh Road, New Delhi-11.
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.

Copy to :-

- 13) Commissioner (Projects), Ministry of Water Resources, New Delhi.
- 14) Commissioner (Indus), MOWR, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
- 15) Chief Engineer (PPO), CWC, New Delhi.
- 16) Chief Engineer (FMO), CWC, New Delhi.
- 17) Chief Engineer (PMO), CWC, New Delhi.
- 18) Chief Engineer, (NBO), Central Water Commission, Block-3, Ground Floor, Paryawas Bhawan, Mother Teresa Marg, Arera Hill, Bhopal-462 011
- 19) Chief Engineer, Indus Basin, Central Water Commission, Block-4, 6th Floor, Kendriya Sadan, Sector-9, Chandigarh-160 017.
- 20) Chief Engineer, Irrigation & Flood Control Board, Civil Secretariat, Srinagar-190 001, J&K.
- 21) Chief Engineer, Irrigation Department, Govt. of Assam, Chandmari, Guwahati-781 003.
- 22) Chief Engineer, Sriram Sagar Project (Stage-II & FFC), Warangal, A P
- 23) Chief Engineer, (Drainage), Irrigation Works, Sector 18 B, Hydrel Building, Chandigarh-160018.
- 24) Chief Engineer, Tapi Irrigation Development Corporation, Sinchan Bhawan, Akashwani Chowk, Jalgaon-425 001 (Maharashtra).
- 25) Chief Engineer, Wain Ganga Basin, WRD, Govt of M.P, Seoni, M.P.
- 26) Director (Mon. & Appraisal), Central Water Commission, Gool House, Timber Road, Indira Colony, Janipur, Jammu-180 007.
- 27) Director, Project Appraisal (Central), CWC, New Delhi.
- 28) Director, Project Appraisal (South), CWC, New Delhi.
- 29) Director, Appraisal), CWC, CGO Complex, Block-B, 6th floor, Seminary Hills, Nagpur-440006.
- 30) Secretary, Irrigation & Flood Control, Government of J&K, Civil Secretariat, Srinagar-190 001, J&K.
- 31) Secretary, Government of Assam, Irrigation Department, Block B, 2nd Floor, Assam Secretariate, Dispur, Guwahati-781 006.
- 32) Secretary, Water Resources Department, Government of Maharashtra, Mantralaya, Mumbai-400 032.
- 33) Principal Secretary, WRD, Mantralaya, Vallabh Bhawan, Bhopal, Madhya Pradesh.
- 34) Secretary (Projects), Irrigation & CAD Dept, Secretariate, Govt of A.P, Hyderabad-500001.
- 35) PPS to Secretary, Ministry of Water Resources, New Delhi.

**SUMMARY RECORD OF DISCUSSIONS OF THE 85TH MEETING OF THE
ADVISORY COMMITTEE OF MINISTRY OF WATER RESOURCES HELD
ON 22.02. 2006**

The 85th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Projects proposals was held on 22nd February, 2006 at 1500 Hrs. in the Conference Room of Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi under the Chairmanship of Secretary (WR), Ministry of Water Resources. A list of participants is enclosed at Annexure-I.

The Chairman welcomed the members of the Committee, and other officers present and mentioned that techno-economic viability of 9 projects (Flood Control - 1, New Major - 3 and Revised - 2, ERM - 3) is to be considered in the meeting.

Thereafter, the Chairman requested the Members to express their views/opinion regarding obtaining concurrence of State Finance Departments and other clearances such as Environment & Forest from MOEF and R&R Plan from MOTA, prior to consideration of project by the Advisory Committee.

Discussions held and the decisions taken by the Committee on the agenda items are summarized below.

(a) Concurrence of State Finance Department (CSFD)

On the issue whether the CSFD for a Project is required prior to its consideration by the Advisory Committee, Advisor (WR) mentioned that the Projects are normally considered first by the TAC and CSFD obtained subsequently after TAC acceptance of cost, although as per guidelines this is to be obtained before TAC. Advisor-WR and some other TAC members said that often the State Finance Departments wanted their respective Irrigation Departments to get the clearance of TAC before they incorporated the related projects in their scheme of things. Member-Secretary & CE-PAO pointed out that the CSFD is required for the finalised cost which is available only after the appraisal of the Project by CWC is complete.

JS & FA of MOWR said that: TAC was considering the proposal of the State Government, and not that of its Finance Department. TAC itself is a high level an inter-ministry committee, which brings to bear on the techno-economic clearance the unified, and not sectoral wisdom of the Central Government. The guidelines, therefore, rightly and expressly provide that *'CWC would finalise the cost, BC ratio, internal rate of return, etc and the State Government will obtain concurrence of the State Finance Department for this finalized cost. The project proposal will thereafter be put up to the advisory committee for clearance, which would be, by and large, like single*

window clearance'. He said that obtaining required clearances was not just a matter of procedure. It has, especially in the context of thin spreading of fiscal resources by States in their Irrigation projects, a substantive import. TAC must therefore have an equivocal and unified commitment of the State Government as regards their acceptance of cost estimates as proposed including CSFD. He mentioned that Chairman-TAC & Secretary-WR had advised Chairman-CWC on the same lines accordingly through a letter after last (84th) meeting of TAC. He pointed out that none of the 9 proposals before TAC had CSFD; and, were therefore, not ripe for TAC's consideration. He requested that his views, made in his capacity as JS-FA & member TAC as well as a nominated representative of Secretary-Expenditure should be formally brought on record.

Secretary pointed out that State Governments do not accord their administrative approval to Projects requiring the clearance from the Central Water Commission unless such clearance is in place. Hence, an insistence, that the clearance by the Finance Department of a State Government prior to the TAC clearance, would place the Projects in a circular situation. In this view of the matter, therefore, the Advisor, Planning Commission agreed that the financial aspects would be examined while considering investment clearance of the Project.

After further deliberation Committee decided that this aspect may not be linked with the meeting of the Committee.

(b) Clearance by Ministry of Environment & Forests and/or by Ministry of Tribal Affairs

The above issues were discussed in the light of the provisions in para 2.5 of "Guidelines for submission, appraisal and clearance of irrigation and multipurpose projects – 2002 by CWC, MOWR" which reads as "The Project Authorities shall ensure that all necessary actions are taken to obtain clearances from the above mentioned Ministries well in time after due appraisal and DPR is submitted along with these clearances, whenever required". Accordingly, it was decided that the Project Authorities should obtain the clearances from the above mentioned Ministries before the Project is considered by the Advisory Committee.

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C.E., PAO briefly introduced the Project and mentioned that the Project was considered in the 84th Advisory Committee meeting and was deferred for want of conjunctive use planning. Subsequently, the Project Authorities have submitted clarifications and intimated that the aspect of conjunctive use would

be considered under the State CAD Programme on completion of the project, which has also been concurred by CGWB. After brief discussion, the Project was found acceptable by the Committee.

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3. Mav Khul Irrigation Project (Medium), J&K - ERM

C.E., PAO briefly introduced the Project and indicated that it is basically an ERM Scheme. As regards the environment clearance by the MOEF, Advisor (WR), Planning Commission mentioned that since it is an ERM Project and its additional CCA is less than 10,000 ha environmental clearance is not required. After brief discussions, the Project was found acceptable. It was also suggested that the para-9 of the TAC note, regarding environment clearance, may be modified as under "Further since the scheme being ERM and its additional CCA is less than 10000 ha and also cost less than Rs. 100 crore the environment clearance from MOEF is not required".

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Discussions on the above project proceeded in line with the previous Project and after a brief discussion, the project was found acceptable. Similar to Mav Khul Irrigation Project, it was also suggested that the para-9 of the TAC note, regarding environment clearance, may be modified as under "Further since the scheme being ERM and its additional CCA is less than 10000 ha and also cost less than Rs. 100 crore the environment clearance from MOEF is not required".

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This scheme was also discussed and was found acceptable. Similar to Mav Khul Irrigation Project, it was also suggested that the para-9 of the TAC note, regarding environment clearance, may be modified as under "Further since the scheme being ERM and its additional CCA is less than 10000 ha and also cost less than Rs. 100 crore the environment clearance from MOEF is not required".

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C.E., PAO introduced the above project indicating that, SRSP Stage-II, AP was earlier accepted by the TAC subject to certain observations in its meeting held on 3.4. 1996. Subsequently, the State Government modified the project proposal and this proposal has been examined in CWC/MOWR and found techno-economically viable. Advisor (WR), Planning Commission pointed out that the proposal is in order, however, a brief detail in respect of calculations for BC ratio for the Ground water development may be supplied by the Project Authorities. Also, the Project Authorities should ensure that the provision for drinking water supply to the tune of 5.5 TMC as approved for SRSP Stage-I and 0.244 TMC as proposed in SRSP Stage-II is sufficient to meet the drinking water requirements for the towns/cities and the rural drinking water supply covered in the above project proposals, especially Karim Nagar water supply where 1.76 TMC is proposed to be drawn from SRSP reservoir, JS-FA, MoWR pointed out that the Project was already under implementation, and was being presented for post-facto acceptance by TAC. He said whether it would be in order to do so in the light of decision taken in the 30th meeting of TAC which had categorically stated: *'Where unapproved projects have been taken up for implementation by the States and substantial expenditure have been incurred or commitments made on such projects, or where the original sanctioned cost of an approved project has been substantially exceeded without approval, and the cases came before the TAC at a very late stage when no real examination is possible and what is sought is merely the formality of an ex-post-facto approval, as such the committee need not accord such an approval but could leave the irregularity un-regularised, and might request the Planning Commission to convey the irregularity to the State'*.

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C.E., PAO briefly described the Project proposals. During discussions Chairman indicated that since the above project is in Tapi Basin, it would be appropriate to consider this project along with other projects of Maharashtra in Tapi Basin in the next TAC meeting.

In view of above, the Project was deferred.

8. Pench Diversion Project (Major), MP - New

C.E., PAO briefly described about the Project proposals and mentioned that the Project has been considered earlier and found acceptable by the

Advisory Committee in its 41st meeting held on 25.10.1988 for an estimated cost of Rs.184.04 crore subject to concurrence of State Finance Department and approval of Rehabilitation and Resettlement from Ministry of Welfare. However, Planning Commission did not recommend this project for inclusion in the VIII Five Year Plan in view of the strategy to first complete the ongoing schemes. Subsequently, the modified Project Report received from State Government has been examined in CWC/MOWR and found techno-economically viable.

During discussion on the project, Advisor (WR), Planning Commission mentioned that as per the TAC note of the present proposal the R&R Plan of the project was cleared by Ministry of Tribal Affairs in November, 1990, and the revised R&R Plan is not required to be got cleared again from Ministry of Tribal Affairs. The Project Authorities were also requested to confirm the aspects of earlier clearance by MOTA to the above project, to which the Project Authorities supplied necessary clarifications. Then, the Project was accepted by the Committee for investment clearance as all clearances including environment have been obtained.

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C.E., PAO introduced the project proposal to the Committee. Initiating discussions on the project proposal, the Advisor (WR), Planning Commission requested the Project Authorities to clarify whether the above proposal may be considered as "Drainage Scheme" or as an Irrigation cum Drainage Scheme, to which the Project Authorities confirmed that the above scheme may be considered as a Drainage Scheme in the Flood Sector.

After brief discussion, the Project proposal was found acceptable by the Committee and recommended for investment clearance as environment clearance has already been obtained.

After discussions on the Projects, the Chairman of the committee initiated discussions on the other items as per the Agenda which basically related to Benefit Cost Ratio computation. After discussions, it was decided that a Note on the issues may be prepared in consultation with the other concerned agencies and brought up before Advisory Committee.

The meeting ended with vote of thanks to the Chair.

LIST OF PARTICIPANTS

MEMBERS OF COMMITTEE:

S/Shri

- | | |
|---|------------------|
| 1. J. Hari Narayan, Secretary (WR), MOWR, New Delhi. | In the Chair |
| 2. R.Jeyaseelan, Chairman, CWC, New Delhi. | Member |
| 3. A. Sekhar, Adviser (WR), Planning Commission, New Delhi. | Member |
| 4. Niranjana Pant, Financial Adviser – MOWR, New Delhi. | Member |
| 5. R.C. Jain, Superintending Hydrologist, New Delhi.
[Representing Chairman, CGWB] | Member |
| 6. R.K. Rustagi, Director, (H.P.A), CEA, New Delhi.
[Representing Chairman, CEA] | Member |
| 7. R.N.P. Singh, Chief Engineer, PAO, CWC, , New Delhi. | Member Secretary |

Special Invitees:

(a) Central Water Commission.

1. S.K.Das, Member (D&R), CWC, New Delhi.
2. B.S Ahuja, Member (WP&P), CWC, New Delhi.
3. S.K. Agarwal, Member (RM), CWC, New Delhi.
4. B.P. Singh, Chief Engineer (FM), CWC, New Delhi.
5. V. K. Jyoti, Chief Engineer (KGB), CWC, Hyderabad.
6. S.C.Gupta, Chief Engineer (IB), CWC, Chandigarh.
7. R.K. Khanna, Chief Engineer (PPO), CWC, New Delhi.
8. C.P. Singh, Director (FM-I), CWC, New Delhi.
9. V.N.Wakpanjar, Director (PA-N), CWC, New Delhi.
10. S.R.Jagwani, Director (PA-C), CWC, New Delhi.
11. N.M. Saha, Director (PA-S), CWC, New Delhi.
12. A.K. Gautam, Director (Eco.), CWC, New Delhi.
13. K.K.Singh, Director (M&A), CWC,Jammu.
14. R.N. Ray, Deputy Director (PA-N), CWC, New Delhi.
15. T.D.Sharma, Deputy Director (PA-C), CWC, New Delhi.
16. R.P.S. Verma, Deputy Director (PA-N), CWC, New Delhi.
17. Yogesh Paithankar, Deputy Director (M&A), CWC,Bhopal.

(b) Ministry of Water Resources

1. Indra Raj, Commissioner (Projects), M/o Water Resources, New Delhi.
2. D.K. Mehta, Commissioner (Indus), M/o Water Resources, , New Delhi.

(c) Central Electricity Authority.

1. R.K.Garg, Dy Director, (HPA), New Delhi.

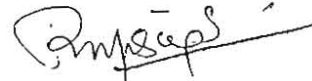
No. 16/27/2006-PA (N)/ 1062 - 98
GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION
PROJECT APPRAISAL ORGANIZATION
407, SEWA BHAWAN, R. K. PURAM, NEW DELHI-110 066

Date: 8th June, 2006

Sub: 86th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 02.06.2006.

Enclosed please find a copy of the summary record of discussions of the above meeting held at New Delhi on 02nd June 2006 for information and necessary action.

Encl.: As above.



(R. N. P. Singh)
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, Jam Nagar House, Man Singh Road, New Delhi-11.
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.

Copy to-

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.
5. Commissioner (Indus), MOWR, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
6. Commissioner (Ganga), MOWR, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
7. Member, Planning, , GFCC, Sinchai Bhawan, Patna – 800 015, BIHAR.
8. Chief Engineer, Krishna Godavari Basin, CWC, 5-9-201/B&BI, Chirag Ali Lane,
Hyderabad – 500 001, Andhra Pradesh.
9. Chief Engineer (FMO), CWC, New Delhi.
10. Chief Engineer (PMO), CWC, New Delhi.
11. Chief Engineer, Mahanadi & Eastern Rivers Organisation, CWC, Bhubaneswar.
12. Chief Engineer, Indus Basin Organization, CWC, Block-IV, 6th Floor, Kendriya Sadan, Sector-9A,
Chandigarh – 160 017.
13. Chief Engineer, Basin Manager, and Brahamni Right Basin, Mahisapat, Dhenkanal, Orissa.
14. Chief Engineer, Kashmir Irrigation & Flood Control Department, Silk Factory Road,
Rajbagh Srinagar-190 001, J&K.
15. Chief Engineer, Irrigation & Flood Control Department, Government of J&K, Irrigation Complex,
Jammu – 180 001.
16. Additional Secretary-Cum-Chief Engineer, (Water Resources) Department, Government of
Rajasthan, Indragandhi Nahar Bhawan, Jaipur, Rajasthan.
17. Chief Engineer, Indira Sagar Project, Dowlaiswaram, Distt. East Godavari, A.P – 533 125.
18. Chief Engineer, (Medium Irrigation), Irrigation Department, Errum Manzil, Hyderabad – 500 082.
19. Director (Mon. & Appraisal), Central Water Commission, Gool House, Timber Road, Indira Colony,
Janipur, Jammu-180 007.
20. Director (Mon. & Appr.), CWC, 116, Ground Floor, Himmat Nagar, Tak Road, Jaipur – 302 018,
Rajasthan.
21. Director, Project Appraisal (Central), CWC, New Delhi.
22. Director, Project Appraisal (South), CWC, New Delhi.
23. Director, FM-I, CWC, New Delhi.
24. Director, P&P (N&S), CWC, New Delhi.
25. PPS to Secretary, Ministry of Water Resources, New Delhi.

Summary Record of Discussions of the 86th Meeting of the Advisory Committee of MoWR held on 2.6.2006

The 86th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals was held on 2nd June, 2006 at 1500 Hrs. in the Conference Room of Central Water Commission, Sewa Bhawan, R.K.Puram, New Delhi under the Chairmanship of Secretary (WR), Ministry of Water Resources. The list of participants is enclosed at Annexure-1.

The Chairman welcomed the members of the Committee and other officers present in the meeting and mentioned that techno-economic viability of 20 projects (Flood Control -- 3, Major -- 3 & Medium-14) are to be considered in the meeting.

Discussions held and the decisions taken by the Committee on the agenda items are summarized below:

1. Modernization of Babul Canal (ERM-Medium)-J&K

Chief Engineer (PAO) briefly introduced the project proposals and stated that is a modernization scheme involving no forest land and no displacement of population. Joint Secretary & Financial Adviser, Ministry of Water Resources indicated that State Finance Concurrence for the estimated cost of the project is required before the acceptance by the Advisory Committee. It was intimated that this issue had been discussed in the last Advisory Committee Meeting wherein it was decided that this aspect may not be linked with the meeting of the Committee. After brief discussion, the scheme was found acceptable by the Advisory Committee.

2. Master Plan for Flood Protection on River Chenab (FC)- J&K

Chief Engineer (PAO) briefly introduced the project proposals. During the discussions on the project, Advisor (WR), Planning Commission mentioned that since the consideration of Master Plan is not within the purview of TAC of MoWR, the above proposal may be considered as flood protection scheme on river Chenab. To this it was informed that it is essentially a flood protection scheme consisting of strengthening of embankments at various locations, restoration of damaged spurs and studs and construction of some new spurs and studs, etc in a stretch of about 28 km downstream of Akhnoor. On the query of Chairman regarding the status of clearance of forest by MoEF, Member (RM), CWC intimated that the forest clearance to the above scheme has been obtained from the competent authority. The project was thereafter accepted by the Committee.

3. Master Plan for Flood Protection on River Tawi (FC) - J&K.

Chief Engineer (PAO) briefly introduced the project. During discussions on the project, it was clarified by Member (RM) that forest clearance to the above scheme has already been obtained from the competent authority, and he also mentioned that the scheme has been accorded clearance by the Indus Wing of MoWR from international angle. The scheme was then accepted by the Committee.

4. Construction of Jewar Tappal Marginal Bund on Left Bank of River Yamuna (FC) -UP.

Chief Engineer (PAO) briefly introduced the project proposals and stated that this scheme has been examined in Ganga Flood Control Commission, Patna. The scheme does not involve any forest land and also no environmental clearance is necessary. After brief discussions, the scheme was found acceptable by the Committee.

5. Takli Irrigation cum Drinking Water Supply Project (Medium) – Rajasthan.

After brief introduction of the project proposals by Chief Engineer (PAO), the Advisor (WR) Planning Commission mentioned that keeping in view the utilization, the live storage of the reservoir could have been kept to a comparatively lower value. It was clarified that stream being non-perennial and evaporation being high in the region, the live storage and utilization are in order. The scheme was then accepted by the Committee.

6. Narmada Canal Project (Major) – Rajasthan

Chief Engineer (PAO) briefly introduced the project proposals. The Advisor (WR) Planning Commission then drew the attention of the Committee to the negative benefit in the pre-project condition, the practicability of the water delivery system being adopted in the project command and the increase in the cost of the project to the tune of four times as compared to the cost approved by the Planning Commission in 1996. Then the Chief Engineer and Additional Secretary, Irrigation Department, Government of Rajasthan explained the reasons for negative benefits in the pre-project conditions, the adoption of state of the art sprinkler system for water delivery system in the project and the reasons for increase in cost etc. After brief discussions the scheme was found acceptable by the Committee.

7. Peddavagu Diversion Scheme (Medium) – A.P.

Briefly introducing the project proposal, Chief Engineer (PAO) stated that the project does not involve any forest land and displacement of population and also the environmental clearance is not required. The project was then accepted by the Committee.

8. Musurumilli Reservoir Project (Medium) – A.P.

Chief Engineer (PAO) while introducing the project proposals in brief stated that no forest land is involved in the project. However, the project requires clearance for R&R Plan by Ministry of Tribal Affairs (MoTA). The Advisor (WR) Planning Commission clarified that the clearance of R&R Plan by MoTA being not a statutory clearance, it could be obtained later. However, keeping in view the present practice of according Single Window Clearance, NOC from MOTA should be obtained before the consideration of the project by the Committee. Accordingly scheme was deferred by the Committee.

9. Rallivagu Reservoir Project (Medium) - A.P.

Briefly introducing the project proposal, Chief Engineer (PAO) mentioned that "in Principle" clearance of the forest land involved in the project has already been accorded by MoEF. Moreover, no other statutory clearance for the project is required. After brief discussions the scheme was found acceptable by the Committee.

10. Nilwai Reservoir Project (Medium) – A.P.

Chief Engineer (PAO) briefly introduced the project proposal and stated that “in Principle” clearance of the forest land involved in the project has already been accorded by MoEF. However, the project requires clearance for R&R Plan by Ministry of Tribal Affairs (MoTA). As such scheme was deferred by the Committee.

11. Mathadivagu Reservoir Project (Medium) – A.P.

Chief Engineer (PAO) briefly introduced the project proposals and intimated that no statutory clearances for the project are required. After brief discussions the project was accepted by the Committee.

12. Gagrin Irrigation Project (Medium) – Rajasthan

Chief Engineer (PAO) briefly introduced the project proposals and informed that no statutory clearances for the project are required. After brief discussions the project was accepted by the Committee.

13. Modernisation of Ahji Canal (Medium) – J&K.

Chief Engineer (PAO) briefly introduced the project proposal and mentioned that no statutory clearances for the project are required. After brief discussions the project was accepted by the Committee.

14. Gollavagu Irrigation Project (Medium) – A.P.

Chief Engineer (PAO) briefly introduced the project proposal and informed that “in Principle” clearance of the forest land involved in the project has already been accorded by MoEF. Further, no other statutory clearances for the project are required. After brief discussions, the scheme was found acceptable by the Committee.

15. Manjore Irrigation Project (Medium)- Orissa

Chief Engineer (PAO) briefly introduced the project proposal and informed that clearance of R&R Plan from MoTA and forest clearance from MOEF have already been obtained, and no environmental clearance is required. The project was then found acceptable by the Committee.

16. Piplad Irrigation Project (Medium)- Rajasthan

Chief Engineer (PAO) briefly introduced the project proposals and indicated that clearance for R&R Plan from MoTA has already been obtained and no other clearances are required. After brief discussions, the proposal was found acceptable by the Committee.

17. Modernisation of Dadi Canal (Medium) – J&K

While introducing the project proposals in brief, Chief Engineer (PAO) intimated that the scheme was originally approved by Planning Commission in 2004. In the revised estimate,

addition of lining of canal, construction of new outlets, addition of one lift station, etc are included.. After brief discussions the proposal was found acceptable by the Committee.

18. Rafiabad High Lift Irrigation Scheme (Medium) – J&K

Chief Engineer (PAO) briefly introduced the project proposals and intimated that the scheme was earlier approved by the Planning Commission in September, 2001 and its cost has been revised owing to change in scope of the work besides escalation of prices. After brief discussions, the proposal was found acceptable by the Committee.

19. Pushkara Lift Irrigation Scheme (Major) – A.P.

Chief Engineer (PAO) briefly introduced the project proposals and mentioned that the project involved diversion of one hectare of forest land for which clearance has been accorded by MoEF, and also the proposal does not require any other clearances. After brief discussions, the proposal was found acceptable by the Committee.

20. Tadipudi Lift Irrigation Scheme (Major) - A.P.

Chief Engineer (PAO) briefly introduced the project proposal and informed that no forest land is involved in the project and the environmental clearance has already been obtained from MOEF. Also, the project does not involve any displacement of population and as such no R&R plan clearance is required for the project. After brief discussions, the proposal was found acceptable by the Committee.

The Joint Secretary & Financial Adviser, MoWR raised the issue that some of the medium irrigation schemes have not been referred to B&T Section of MoWR for appraisal. It was clarified that as per guidelines for "Submission, Appraisal and Clearance of Irrigation and Multipurpose Project, 2002", the medium irrigation schemes are to be appraised by the Field Offices of CWC and their inter-state issues to be examined by CWC Hqrs.

21. While according its acceptance of the various schemes, the Committee had ensured that all specified clearances required for a project have been obtained with the exception of the approval of the Finance Department of the concerned State. JS&FA has pointed out that this is an important requirement and must be considered before the TAC accords its clearance. Advisor (WR), Planning Commission pointed out that this issue was considered earlier and it was decided that the clearance of the State Planning/Finance Department would be considered by the Planning Commission while considering Investment Clearance. In view of the above, the Chairman said that as the matter has already been considered, the decision taken will hold.

The meeting ended with vote of thanks to the Chair.

LIST OF PARTICIPANTS**MEMBERS OF COMMITTEE:**

S/Shri

- | | |
|--|------------------|
| 1. J. Hari Narayan, Secretary (WR), MOWR, New Delhi. | In the Chair |
| 2. R.Jeyaseelan, Chairman, CWC, New Delhi. | Member |
| 3. A. Sekhar, Adviser (WR), Planning Commission, New Delhi. | Member |
| 4. Niranjana Pant, Financial Adviser – MOWR, New Delhi. | Member |
| 5. Saleem Raman Chairman, CGWB, New Delhi. | Member |
| 6. M Subramanian, Chief Engineer, (H.P.A), CEA, New Delhi.
[Representing Chairman, CEA] | Member |
| 7. P.S. Minhas, ADGI(WM), ICAR, KAB-II, Pusa, New Delhi.
(Representing Director General, ICAR), | Member |
| 8. Mashoda Lal, Under Secretary, M/o Tribal Affairs, New Delhi. | Member |
| 9. Dr. Shekhar Sabhai, ATO, NRM Division, M/o Agriculture, New Delhi.
(Representing Secretary, Department of Agriculture & Cooperation. | Member |
| 10. R.N.P. Singh, Chief Engineer, PAO, CWC, New Delhi. | Member Secretary |

Special Invitees:**(a) Central Water Commission.**

1. S.K.Das, Member (D&R), CWC, New Delhi.
2. B.S Ahuja, Member (WP&P), CWC, New Delhi.
3. S.K. Agarwal, Member (RM), CWC, New Delhi.
4. V. K. Jyoti, Chief Engineer (KGB), CWC, Hyderabad.
5. S.C.Gupta, Chief Engineer (IB), CWC, Chandigarh.
6. C.P. Singh, Director (FM-I), CWC, New Delhi.
7. V.N.Wakpanjar, Director (PA-N), CWC, New Delhi.
8. N.M. Saha, Director (PA-S), CWC, New Delhi.
9. K.K.Singh, Director (M&A), CWC, Jammu.
10. B.G.Kaushik, Director (M&A), CWC, Jaipur.
11. Gorakh Thkur, Director, PA(N), CWC, New Delhi.
12. G.R. Rao, Deputy Director, (PA-S), CWC, New Delhi.
13. R.N. Ray, Deputy Director (PA-N), CWC, New Delhi.
14. T.D.Sharma, Deputy Director (PA-C), CWC, New Delhi.
15. H.K. Meena, Deputy Director, (M&A), CWC, Jaipur.
16. R.P.S. Verma, Deputy Director (PA-N), CWC, New Delhi.
17. A.Prabhakar, Deputy Director (PA-S), CWC, New Delhi.

(b) Ministry of Water Resources

1. P.Padmanabhan Sr. Joint Commissioner (Projects), M/o Water Resources, New Delhi.

(c) Ganga Flood Control Commission, Patna.

1. Ravinder Singh, Member (Planning), GFCC, Patna.

Special Invitees:

13. Member (WP&P), CWC, New Delhi.
14. Member (D&R), CWC, New Delhi.
15. Member (RM), CWC, New Delhi.
16. Commissioner (Projects), Room No-411 Ministry of Water Resources, New Delhi.
17. Commissioner (Indus), MOWR, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
18. Commissioner (Ganga), MOWR, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
19. Engineer-in-Chief (Design & Planning), UP Irrigation Deptt., Sinchai Bhawan, Cant Road, Lucknow - 226 001. (Uttar Pradesh).
20. Chief Engineer, Krishna Godavari Basin, CWC, 5-9-201/B&BI, Chirag Ali Lane, Hyderabad - 500 001, Andhra Pradesh.
21. Chief Engineer (IBO), CWC, Block-IV, 6th Floor, Kendriya Sadan, Sector -9A, Chandigarh - 160 017.
22. Chief Engineer (PMO), CWC, New Delhi.
23. Chief Engineer, Betwa Project UP Irrigation Department, Jhansi (UP).
24. Chief Engineer, Irrigation & Flood Control Department, Government of J&K, Irrigation Complex, Jammu - 180 001.
25. Chief Engineer (I&PHDeptt.), Central Zone, P O & Distt. Mandi (HP)
26. Chief Engineer (Canal), Irrigation Works, Govt. of Punjab, Sinchai Bhawan, Sector-18B, Chandigarh - 160 018.
27. Chief Engineer, (Medium Irrigation), Irrigation Department, Errum Manzil, Hyderabad - 500 082.
28. Director (Mon. & Appraisal), Central Water Commission, Gool House, Timber Road, Indira Colony, Janipur, Jammu-180 007.
29. Director (Mon. & Appr.), CWC, Block-10, 1st Floor, SDA Complex, Kasumpti, Shimla - 171 009 (HP)
30. Director, Project Appraisal (North), CWC, New Delhi.
31. Director, Project Appraisal (South), CWC, New Delhi.
32. Director, FM-1, CWC, New Delhi.

Copy for information to -

33. Sr. PPS to Secretary, Ministry of Water Resources, Room No-407 New Delhi.

**SUMMARY RECORD OF DISCUSSIONS OF THE 87TH MEETING OF THE
ADVISORY COMMITTEE OF MINISTRY OF WATER RESOURCES HELD ON
17.11. 2006**

The 87th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Projects proposals was held on 17th November, 2006 at 1030 hrs. in the Conference Room of Central Water Commission, Sewa Bhawan, R.K. Puram, New Delhi under the Chairmanship of Secretary (WR), Ministry of Water Resources. A list of participants is enclosed at Annexure-I.

The Chairman welcomed the members of the Committee, and other officers present and mentioned that techno-economic viability of 8 projects were to be discussed.

Thereafter Project-wise discussions were taken up which are summarized below:

1. Kachnoda Dam Project (New Major)- Uttar Pradesh

C.E. (PAO) briefly introduced the project and intimated that the letter indicating the views of Ministry of Environment & Forest on the above project has been received today. Since, no representative from MoEF was present in the meeting, the Secretary, WR requested to read out the letter to apprise the Committee about the views of MoEF. In their letter MoEF have intimated that the project would require environmental clearance since its CCA is more than 10000 ha. To which, it was clarified that though the CCA of the project is 11699 ha, the new CCA proposed is 5178 ha only and the remaining area is the existing command of Lalitpur and Jamni canals which is not getting adequate irrigation supplies and therefore it may not require environmental clearance. However, this would be clarified to the MoEF separately. Dy. Advisor (WR) Planning Commission raised query about the SOR of the cost estimate and submergence of agricultural land in relation to the benefited area of the project. The project engineers then clarified that though the SOR is of September 2004, the cost estimate has been approved by the State EFC in Sept. 2006. Further, to the query about R&R plan they informed that as per the joint survey carried out with the State Revenue Department, no tribal population is involved and the provision for R&R plan has been made as per the guidelines of Union Ministry of Rural Development (R&R policy – 2003). After some further discussions the project was accepted by the Committee.

2. Widening, Strengthening and Providing 10th wide Roadway on Alipur Bund on Left Bank of River Yamuna in District Baghpad/Ghaziabad-Uttar Pradesh

C.E. (PAO) briefly introduced the project and mentioned that no forest land is involved in the project which has also been certified by the District Forest Officer, Meerut (U.P). Then, issues were raised regarding volume of traffic and design aspects. The project authorities clarified that the width of embankment has been

kept in view of the vehicular traffic and its design has been made in conformity with the provisions/practice of IRC. After some further discussions the project was accepted by the Committee.

3. Improving Irrigation Intensity of Hardoi Branch System (New Major-ERM)- Uttar Pradesh

C.E. (PAO) briefly introduced the project and informed that Hardoi Branch canal, a part of the Sarda canal system was commissioned in 1928 and the present project has been formulated in order to restore the canal system to ensure design discharge and in turn to supply adequate irrigation to the tail reaches in Hardoi, Raebareilly, Unnao and Lucknow districts. The Commissioner (PR) MoWR enquired whether the project was included in any other scheme, to which the project authorities clarified that the scheme is not included in any other scheme. It was also clarified by the project engineers that no additional area is being brought under irrigation and no environmental and forest clearance is required for the scheme. After detailed discussions the project was accepted by the Committee.

4. 1st Patiala Feeder & Kotla Branch (New Major-ERM)- Punjab

C.E. (PAO) introduced the project and mentioned that it is an ERM project envisaging remodeling/ rehabilitation of two main carrier channels (1st Patiala Feeder and Kotla Branch canal) of Sirhind Canal System. The Dy. Advisor (WR) Planning Commission sought clarification regarding increase in carrying capacity by 20% though the rugosity coefficient decreases to 10% (i.e., from 0.020 to 0.018). It was clarified by the Project Authorities that in addition to lining of side slopes, deepening is also involved. Further, this aspect has been examined by the Central Design Organisation in the state. As regards the impact on ground water recharge, it was intimated that lining is not being proposed on the canal bed so that ground water recharge remains unaffected. After some further discussions the project was accepted by the Committee.

5. Musurumilli Project (New Medium)- Andhra Pradesh

C.E. (PAO) briefly introduced the project and mentioned that the above scheme was considered by the TAC in its 86th meeting held on 2.6.2006 but was deferred for clearance by MoTA which has now been obtained by the Project Authorities. During discussion representative of Central Ground Water Board pointed out that there is already water logging problem in some area and also there is huge ground water resources available which will substantially increase after the implementation of the project which will further compound the water logging problem in the command. Therefore, conjunctive use of ground water and appropriate crop planning is felt necessary. Chief Engineer, KGB, CWC informed that the scheme has been examined by the State Ground Water Deptt. and they have recommended change in irrigation schedule and converting some area from groundnut to paddy. The project officials intimated that in view of the ground water position they could adopt proper irrigation scheduling as well as change in cropping pattern. Deputy Advisor (WR), Planning Commission suggested that this aspect needs to be studied in detail and it would be desirable to associate CGWB as well. Thereafter, it

was decided that the pro-forma report on the scheme may be sent to CGWB for their examination and as such the scheme was deferred.

6. Nilwai Reservoir Project (New Medium)-Andhra Pradesh

C.E. (PAO) introduced the project and informed that the above scheme was considered earlier by the TAC in its 86th meeting held on 2.6.2006 but was deferred for want of clearance of R&R plan by MoTA which has now been obtained by the project authorities. To the query about conjunctive use of ground and surface water it was clarified that the study is being carried out by State Ground Water Department and their report is awaited. However, the natural slope in the command is adequate and drainage problem is not anticipated. The project was then accepted by the Committee. However, the project report may be forwarded to IFD, MoWR to obtain their clearance before forwarding the recommendation of TAC to the Planning Commission. It was also decided that henceforth, all the medium irrigation projects may also be forwarded to the Internal Finance Division for their vetting and comments, which is already being done in many cases even at present.

7. Kandi Canal Project (New Medium)- Jammu & Kashmir

C.E. (PAO) briefly introduced the project and intimated that this project will provide irrigation to an area of 3229 ha. annually in Doda district of J&K. Commissioner (PR) MoWR informed that the scheme has been found acceptable by the Commissioner (Indus), MoWR from inter-national angle. After further discussions the project was accepted by the Committee.

8. Balh Valley (LB) Irrigation Project (Revised Medium)- Himachal Pradesh

While introducing the project, C.E (PAO) informed that the project was earlier accorded investment clearance by the Planning Commission for an estimated cost of Rs. 41.64 crore in June, 2005. It was informed by the project authorities that the revised cost estimate has been finalized for Rs. 62.25 crore and the increase in cost is mainly due to price escalation. After further discussions the project was accepted by the Committee.

The meeting ended with vote of thanks to the Chair.

LIST OF PARTICIPANTS

MEMBERS OF COMMITTEE:

S/Shri/Smt

- | | |
|---|------------------|
| 1. Gauri Chatterji, Secretary (WR), MOWR, New Delhi. | In the Chair |
| 2. R.Jeyaseelan, Chairman, CWC, New Delhi. | Member |
| 3. Avinash Mishra, Dy- Adviser (WR), Representing Adviser (WR) Planning Commission, New Delhi. | Member |
| 4. Ashok Jha, under Secretary (BT), Representing Financial Adviser – MOWR, New Delhi. | Member |
| 5. K.J. Anandha Kumar Scientist-B, Representing Chairman, CGWB, New Delhi. | Member |
| 6. M Subramanian, Chief Engineer, (H.P.A), CEA, New Delhi. [Representing Chairman, CEA] | Member |
| 7. Dr D.K. Paul, Principal Scientist, ICAR, KAB-II, Pusa, New Delhi. (Representing Director General, ICAR), | Member |
| 8. R.N.P. Singh, Chief Engineer, PAO, CWC, New Delhi. | Member Secretary |

Special Invitees:

(a) Central Water Commission.

1. S.K. Das, Member (D&R), CWC, New Delhi.
2. B.S. Ahuja, Member (WP&P), CWC, New Delhi.
3. S.K. Agarwal, Member (RM), CWC, New Delhi.
4. V. K. Jyoti, Chief Engineer (KGB), CWC, Hyderabad.
5. S.C. Gupta, Chief Engineer (IB), CWC, Chandigarh.
6. C.P. Singh, Director (FM-I), CWC, New Delhi.
7. Gorakh Thkur, Director, PA(N), CWC, New Delhi.
8. N.M. Saha, Director (PA-S), CWC, New Delhi.
9. Dr Samir Chatterjee, Director (M&A), CWC, Jammu.
10. Bhopal Singh, Director (M&A), CWC, Shimla.
11. R.N. Ray, Deputy Director (PA-N), CWC, New Delhi.
12. T.D. Sharma, Deputy Director (PA-C), CWC, New Delhi.
13. R.P.S. Verma, Deputy Director (PA-N), CWC, New Delhi.

(b) Ministry of Water Resources

1. Indra Raj Commissioner (Projects), M/o Water Resources, New Delhi.
2. Y.K. Handa Sr Joint Commissioner (Indus) /o Water Resources, New Delhi.

(c) Central Electricity Authority.

1. J.S. Bawa, Dy. Director, CEA, New Delhi.

(d) State Government Officers:

Andhra Pradesh

1. BVS Prakasa Rao, Engineer in Chief (Hydrology), Hyderabad.
2. CV Ramamurthy, Superintending Engineer, Musurall, Rajamundri.
3. P. Ramiah, Executive Engineer, IB Division, Mechanical, Adilabad.
4. Siva Rama Krishna, Deputy EE, Hydrology, Errummanzil, Hyderabad.

Himachal Pradesh

1. D.K.Gupta, Chief Engineer(IPH), Central Zone, Mandi H.P
2. O.P.Chauhan, Superintending Engineer, IPH Circle Sunder Nagar, Mandi.
3. C.L.Sood, Superintending Engineer, P&I Circle-II, Shimla.
4. K.R.Kulvi Executive Engineer, IPH Divn, Baggi (Mandi)

Jammu & Kashmir

1. V.K.Abrol, Chief Engineer, (I&FC) Department, Jammu.

Punjab

1. V.K.Mantro, Chief Engineer (Canals), Chandigarh,
2. J.S.Sandhu, Superintending Engineer, IBO, Patiala.

Uttar Pradesh

1. D.C.Samant, Engineer in Chief & Head of Deptt. Irri. Deptt. Lucknow
2. Dhniram, Chief Engineer, (Betwa-Paryojana), Irri. Deptt. Jhansi.
3. Hari Shankaer, Superintending Engineer, VI Circle, Irrigation Works, Lucknow.
4. Devendra Mohan, Superintending Engineer, Irrri deptt. Meerat.

No. 16/27/2007-PA (N)/ 333 - 368
Government of India
Central Water Commission
Project Appraisal (North) Directorate


407(S), Sewa Bhawan,
R. K. Puram, New Delhi
Fax-26103561

Date: 7th March, 2007

Sub: **88th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals held on 02.03.2007**

Summary record of discussions of the above meeting held at New Delhi on 2nd March, 2007 is enclosed for information and necessary action please.

Encl.: As above.


(R.K. Khanna)
Chief Engineer (PAO) &
Member Secretary -

COPY TO: MEMBERS OF COMMITTEE:

1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
2. Secretary (Expenditure), Ministry of Finance, (1st Floor) North Block, New Delhi.
3. Secretary, Department of Power, S.S. Bhawan, Room No- New Delhi.
4. Secretary, Ministry of Environment & Forests, 4th Floor, Room No- 404/05 Paryavaran Bhawan, CGO Complex, New Delhi.
5. Secretary, Ministry of Tribal Affairs, Room No. 738, A-Wing, Shastri Bhawan, New Delhi.
6. Secretary, Department of Agriculture & Cooperation, Room No 126 Krishi Bhawan, New Delhi.
7. Director General, ICAR, Room No-108, 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.
10. Adviser (WR), Planning Commission, Room No-228 Yojana Bhawan, New Delhi.
11. Adviser (Power), Planning Commission, Room No-263 Yojana Bhawan, New Delhi.
12. Financial Adviser, Ministry of Water Resources, Room No-401 S.S. Bhawan, New Delhi.

Special Invitees:

13. Member (WP&P), CWC, New Delhi.
14. Member (D&R), CWC, New Delhi.
15. Member (RM), CWC, New Delhi.
16. Commissioner (Projects), Ministry of Water Resources, New Delhi.
17. Commissioner (PP), Ministry of Water Resources, New Delhi.
18. Commissioner (Ganga), MOWR, CGO Complex, Block-11, 8th floor, Lodhi Road, New Delhi.
19. Secretary, Water Resources Deptt, Govt of Maharashtra, Mantralaya, Mumbai - 400 032.
20. Secretary, Projects, Irrigation & CAD Deptt. , Secretariat Building, Govt of Andhra Pradesh, Hyderabad-500022.
21. Secretary, Irrigation Deptt. Govt of Rajasthan, Secretariat, Jaipur-302001.
22. Secretary, Irrigation Deptt. Govt of Uttar Pradesh, Secretariat, Lucknow-226001.
23. Secretary, Irrigation & Flood Control, Govt of Manipur, Imphal,
24. Chairman, Ganga Flood Control Commission, Sinchai Bhawan, Patna.
25. Chief Engineer, Krishna Godavari Basin, CWC, 5-9-201/B&BI, Chirag Ali Lane, Hyderabad - 500 001, Andhra Pradesh.
26. Executive Director, Vidharbha Irrigation Development Corpn., Sinchan Sewa Bhawan, Civil Line, Nagpur, Maharashtra.
27. Chief Engineer, Water Resources Deptt, Sinchan Bhawan, Shivajinagar, Amaravati - 444 0 603 (Maharashtra)
28. Chief Engineer & Addl. Secretary Water Resources Deptt, Govt of Rajasthan, Sawai Bhawani Singh Marg, Sinchai Bhawan, Jaipur (Rajasthan).
29. Chief Engineer (Mon-C), CWC, CGO Complex, Block-C, 3rd Floor, Seminary Hill, Nagpur - 440 006 (Maharashtra).
30. Chief Engineer (PMO), CWC, New Delhi.
31. Chief Engineer, (Medium Irrigation), Irrigation Department, Govt of Andhra Pradesh, Errum Manzil, Hyderabad - 500 082.
32. Director (M & A), CWC, Jaipur, Rajasthan.
33. Director, Project Appraisal (North), CWC, New Delhi.
34. Director, Project Appraisal (South), CWC, New Delhi.
35. Director, Project Appraisal (Central), CWC, New Delhi.

Copy for information to -

36. Sr. PPS to Secretary, Ministry of Water Resources, Room No-407 New Delhi.

**SUMMARY RECORD OF DISCUSSIONS OF THE 88TH MEETING OF THE ADVISORY
COMMITTEE ON IRRIGATION, FLOOD CONTROL & MULTIPURPOSE PROJECTS OF
MINISTRY OF WATER RESOURCES HELD ON 02.03.2007.**

The 88th meeting of the Advisory Committee for consideration of techno-economic viability of irrigation, Flood Control and Multipurpose Projects proposals was held on 2nd March.2007 at 1530hrs. in the Labour Committee Room of Ministry of Labour and Employment, SS Bhawan, New Delhi under the Chaimanship of Secretary (WR), MoWR. A list of participant is enclosed as Annexure-1.

The Chaiman welcomed the members of the Committee and other officers present and requested the Member-Secretary to take up the agenda for discussion. The Member-Secretary mentioned that techno-economic viability of 15 projects including 11 projects under PM's Package were to be discussed.

Thereafter Agenda Items were taken up for discussions.

1. Confirmation of the minutes of the 87th TAC meeting

The minutes of the 87th meeting held on 17.112006 in the Committee room of CWC were confirmed as there were no comments from members in this regard.

2. B.C. Ratio for projects under PM's Package

The Member-Secretary presented the background of the case and stated that it was necessary to review the criterion of B.C. Ratio as some of the schemes under PM's package have got B.C. Ratio less than 1.5 and more than 1.0. Secretary (Water Resources) added that it was a generic issue and it needs detailed discussion in the Committee. Deputy Adviser, Planning Commission stated that Planning Commission had recently reviewed the B.C. Ratio criterion for some specific areas like special category states as well as tribal areas. He suggested that the issue may be referred to the Planning Commission for taking a view as the existing criterion of B.C. Ratio i.e. 1.5 and above was intended to take care of time overrun as well as cost overrun. The Secretary (WR) stated that already there was a relaxation for tribal area and drought prone area. Therefore, the B.C. Ratio criterion could be relaxed for the schemes under PM's Package which was meant for 31 agrarian distress districts and the proposed projects were required to be completed in a span of three years. Specific areas have been

identified under PM's Package, as distressed areas and therefore, special consideration is necessary for projects under PM's package. Mr. Dr D.K Paul, Principal Scientist, ICAR stated that most of the projects had B.C. Ratio more than 1.5; only a few had less than 1.5. The Chairman, CWC stated that the schemes are of special nature and in view of the urgency these should be implemented in time bound manner. All these schemes are meant for those areas where farmers have committed suicides. It would be, therefore pragmatic to relax the criterion of BC Ratio similar to the schemes for drought prone area. The Member(WP&P) stated that drought prone area is also a dynamic thing as it depends upon rain fall data and as such some concession is necessary for such schemes. The Commissioner (PR) stated that the IRR for these schemes is matching the range of acceptance. It was finally agreed by the Committee that schemes under PM's package may be accepted even if the B.C. Ratio is less than 1.5, as in the case of drought prone areas.

3. Project under consideration

(A) Projects covered under PM' Package

3.1 Alisagar Lift Irrigation Scheme (New Major) - Andhra Pradesh

The Chief Engineer (PAO) briefly introduced the project and informed that the scheme envisages lifting of 2.847 TMC of water from Godavari River in the foreshore of SriRam Sagar Project for supplementing 21770 ha. of Ayacut (CCA) of Nizamsagar Project from Distributary No-50 to 73. The lift is proposed 3 stages. The total utilization for the project is 4.093 TMC, which has been proposed to be met from 2.847 TMC from SRSP Reservoir, 0.914 TMC from ground water and 0.332 TMC from existing tanks. It was also informed to the Committee that the cost of the project is Rs 227.90 Cr, B.C.Ratio works out to 1.45 and is included in the PM's Package. The Commissioner (PR) stated that Govt. of Andhra Pradesh had indicated that 42,000 acres has been deleted temporarily from SRSP stage- I Ayacut.. He asked about utilization as well as the distribution network. The project authorities clarified all the points and thereafter project was accepted by the Committee.

3.2 Gutpha Lift Irrigation Scheme (New Major) - Andhra Pradesh

The Chief Engineer (PAO) briefly introduced the project and further added that lifting has been proposed in two stages, utilizing water of 2.741 TMC consisting of 1.952 TMC from SRPS reservoir, 0.48 TMC ground water and 0.303 TMC from existing tanks. The environmental clearance has already been obtained from MoE&F and no forest land is involved. There is no any

displacement of population in the project. The project, to cost Rs.171.71 crore, has B.C. Ratio of 1.56 and is included in the PM's package. The Committee after further discussion accepted the project.

3.3 Godavari Lift Irrigation Scheme (New Major) - Andhra Pradesh

The Chief Engineer (PAO) briefly introduced the project and stated that 38.16 TMC of water from Godavari was to be lifted to irrigate an Ayacut of 2.62 lakh ha in Warangal, Lal Gonda, Medak and Karimnagar districts. The project is cleared from inter-state angle. Environmental as well as forest clearance was obtained from MOE&F. The project, to cost Rs.6016 crore, has B.C. Ratio of 1.20. The Member (WP&P) subsequently explained that in case ground water is not available, more water is to be lifted from Godavari which may reduce B.C. ratio marginally to 1.17. Commissioner (PR) suggested that all these issues should be included in the TAC note for official record. The project authorities explained that these were provided for operational necessity. After further discussion the committee accepted the scheme.

3.4 Bembla River Project: - Maharashtra.

The C.E. (PAO) briefly introduced the project mentioning that it is an ongoing unapproved project. He also mentioned that MoEF have indicated vide their letter 5/1/2007 that since the above project was taken up before 27.1.1994, as such it does not attract the provisions of EIA Notification 1994/2006. No forest land is involved in this project. It was informed that MoTA have conveyed vide their letter dated 20.2.2007 that since the provisions of the State Act of Maharashtra are more beneficial than those provided in the NPRR, 2003, as such clearance of MoTA for the RR Plan for STPAFs does not appear to be required. The Financial Adviser, MoWR requested for clarification about the outstanding issues included in the TAC Note of the project. The Project Authorities clarified that the issues regarding observations of CWC have been sorted out through discussions in CWC. Although B.C. Ratio of the project is 1.00, (less than 1.5); the project was found acceptable in view of the foregoing discussions regarding B.C. Ratio in the Committee.

3.5 Khadakpurna Project - Maharashtra.

The C.E. (PAO) briefly introduced the project mentioning that it is an ongoing unapproved project. He mentioned that MoEF have already conveyed its approval for the forest land involved in the project. It was also conveyed by him that MoEF have indicated vide their letter 5/1/2007 that since the above project was taken up before 27.1.1994, as such it does not attract the provisions of EIA Notification 1994/2006. It was informed that MoTA have conveyed vide their letter dated 20.2.2007 that since the provisions of the State Act of Maharashtra are more beneficial than those provided in the NPRR, 2003, as such clearance of MoTA for the RR Plan for STPAFs does not appear to be required. After discussions, the project was found acceptable by the Committee.

3.6 Arunavati Project- Maharashtra.

The C.E. (PAO) briefly introduced the project mentioning that the project was earlier considered by the Advisory Committee in its 43rd Meeting held on 18.5.1989 and was found acceptable subject to certain observations viz clearance of MoEF, clearance of Ministry of Welfare (now MoTA) and concurrence of the State Finance Department(SFD). The above clearances have been obtained from the respective Ministries and the concurrence of SFD has been obtained for Rs. 224.16 crore for this project. It was also informed that Govt. of Maharashtra have confirmed that there is no change in the scope of the project. The updated cost estimate submitted by Govt. of Maharashtra has been finalized for Rs. 225.32 crore (2006-07 PL). The Commissioner (PR), MoWR pointed out that almost 90% of the work has already been completed on the project. The B.C. Ratio for the project was less than 1.5, however since the project is included in the Hon'ble PM's package, after discussions, the project was found acceptable by the Committee.

3.7 Lall Nala - Maharashtra.

The C.E. (PAO) briefly introduced the project mentioning that it is a medium project which was earlier considered by the TAC in its 79th meeting held on 24.5.2002 and was found acceptable subject to clearance by MoTA, concurrence of SFD and conjunctive use planning. The representative of Ministry of Agriculture pointed out that yield of crops in the post project scenario has been considered as very high and mostly in the Kharif crops. The Chief Engineer, Monitoring Central Organization,

CWC, Nagpur informed that the statistics on yield, etc. have been provided by the State Agriculture Deptt. The Project Authorities also confirmed the same. Regarding a query by Commissioner (PR) on conjunctive use planning, the Project Authorities informed that they will take up the matter of conjunctive use planning with the concerned State Govt. agency. The Project Authorities also informed the Committee that they have obtained the approval of R&R Plan from MoTA and also the concurrence of SFD to the updated cost of Rs.103.49 crore (2003-04 PL).

After discussions, the project was found acceptable by the Committee.

3.8 Kar Project - Maharashtra.

The C.E. (PAO) briefly introduced the project, mentioning that it is a medium project which was earlier considered by the TAC in its meeting held on May, 1986 and subsequently in its 68th TAC meeting held on 12.6.98 and was found acceptable subject to concurrence of SFD and monitoring of ground water level. Later, the Project Authorities submitted the updated cost estimate to which State SFC approval has been accorded for Rs. 170.04 crore (2005-06 SOR). It was pointed out by the representative of Ministry of Agriculture that major portion of the canal is unlined and it may lead to water logging problems. The Project Authorities intimated that the suggestion of Ministry of Agriculture would be complied with and the work of selective lining of the canal would be taken up. The issue regarding B.C. Ratio of the project being less than 1.5 was also discussed in the Committee, keeping in view that the project is included in PM's package.

After discussions, the project was found acceptable by the Committee.

3. 9& 3.10 Sapan and Chandrabhaga Projects - Maharashtra.

The C.E. (PAO) briefly introduced the above two projects. Initiating discussions on these projects, Secretary (WR) mentioned that the issue regarding utilization of Tapi waters in the above 2 projects is an important matter which needs to be looked into. The Member (WP&P), CWC informed the Committee that Govt. of Maharashtra have submitted 3 Master Plans for utilization of Tapi waters and have submitted their clarification to the observations of CWC on the Master Plan of 2007 on 2.3.2007 to CWC just before the meeting. The Chairman, CWC opined that since the issue needs to be sorted out with proper clarifications by Govt. of Maharashtra, as such, at this stage it would be appropriate that these two projects be deferred by the Committee. Deputy Adviser (WR), Planning Commission also added that since it is serious inter-state issue, the projects may be deferred by the Committee.

Financial Adviser (WR) reiterated the same opinion. On submission by the Project Authorities that the projects may be accepted by the Committee, it was decided by the Committee after discussions that the issue regarding utilization of Tapi water by Maharashtra within their allocated share should be sorted out first on the basis of the clarifications provided at the last minute by the State which were to be examined and thereafter the projects may be again put up to the Committee. As such these two projects were deferred. The Member (RM), CWC suggested that the Project Authorities need to update the cost estimate considering the balance cost at the current price level while submitting the projects to CWC and subsequently for consideration by the Advisory Committee.

3.11 Lower Wardha project- Maharashtra.

The C.E. (PAO) briefly introduced the project mentioning that it is an ongoing unapproved project. He mentioned that MoEF have already conveyed its approval for the forest land involved in the project. It was also conveyed by him that MoEF have indicated vide their letter 5/1/2007 that since the above project was taken up before 27.1.1994, as such it does not attract the provisions of EIA Notification 1994/2006. It was informed that MoTA have conveyed vide their letter dated 20.2.2007 that since the provisions of the State Act of Maharashtra are more beneficial than those provided in the NPRR, 2003, as such clearance of MoTA for the RR Plan for STPAFs does not appear to be required. After brief discussions on the project, the project was found acceptable by the Committee.

(B) Other Projects

3.12 Mussurimilli Irrigation project (New Medium) - Andhra Pradesh

The Chief Engineer (PAO) briefly introduced the project and informed the committee that it was considered in the previous meeting of the committee (87th) and was deferred due to certain clarifications with regard to utilization of ground water. He informed that the same was now clarified. The Committee after further discussion accepted the Scheme.

3.13 Lhasi Irrigation project (New Medium)- Rajasthan.

The Chief Engineer (PAO) briefly introduced the project mentioning that the scheme envisaged construction of earthen dam across river Lhasi in Rajasthan with gross and live storage capacities of 30.80 MCM and 28.30 MCM respectively. It is a medium irrigation scheme and therefore does not

require environmental clearance. MoTA has already accorded its clearance in July, 2006. The project cost is Rs.244.73 crores. B.C. Ratio & IRR are 1.68 and 10.75 % respectively. After further discussion the scheme was accepted by the Committee.

3.14 Construction of Marginal embankment on Right Bank of River Ghaghra & Left Bank of River Sarda (Flood Control) –Uttar Pradesh

The Chief Engineer (PAO) briefly introduced the project mentioning that it was a Flood Control Scheme in the district of Lakhimpur-Kheri.. The construction of the embankment and other components was started in 2003-2004 with funding from NABARD. After further discussion the scheme was accepted by the Committee.

3.15 Dolaithab Barrage Project (Revised- Medium)-Manipur.

The Chief Engineer (PAO) briefly introduced the project mentioning that it was a Barrage project in Manipur across Iril river with two main canals of 38 km length. The project was originally approved by the Planning Commission in 1992 for Rs.18.86 crore and has now been revised for Rs.98.37 crore. All clearances have been obtained by the Project Authorities. After discussion the project was accepted by the Committee.

Meeting ended with a Vote of Thanks to the Chair.

LIST OF PARTICIPANTS**MEMBERS OF COMMITTEE:**

S/Shri/Smt

- | | |
|--|------------------|
| 1. Gauri Chatterji, Secretary (WR), MOWR, New Delhi. | In the Chair |
| 2. S.K. Das, Chairman, CWC, New Delhi. | Member |
| 3. Avinash Mishra, Dy-Adviser (WR), Representing Adviser (WR) Planning Commission, New Delhi. | Member |
| 4. Ananya Ray, Joint Secretary & Financial Adviser – MOWR, New Delhi. | Member |
| 5. K.J. Anandha Kumar Scientist-B, Representing Chairman, CGWB, New Delhi. | Member |
| 6. Tanmoy Das (H.P. & I Div.), CEA, New Delhi.
[Representing Chairman, CEA] | Member |
| 7. Dr D.K. Paul, Principal Scientist (IWM), ICAR, KAB-II, Pusa, New Delhi. (Representing Director General, ICAR, | Member |
| 8. R.K. Khanna, Chief Engineer, PAO, CWC., New Delhi. | Member-Secretary |

Special Invitees:**(a) Central Water Commission.**

1. B.S. Ahuja, Member (WP&P), CWC, New Delhi.
2. A.B. Pal, Member (RM), CWC, New Delhi.
3. S.K. Sengupta, Chief Engineer (PMO), CWC, New Delhi.
4. R.P. Saxena, Chief Engineer, CWC, Nagpur
5. R.K. Gupta, Director (Hyd-S), CWC, New Delhi.
6. S.P. Singh, Director (M&A), CWC, Jaipur.
7. Ramaesh Grover, Director, (Mon), CWC, Nagpur
8. N.M. Saha, Director (PA-S), CWC, New Delhi.
9. Gorakh Thakur, Director (PA-N), CWC, New Delhi.
10. S.R. Jagwani, Director (PA-C), CWC, New Delhi.
11. Y.K. Sharma, Director (IP-S), CWC, New Delhi.
12. R.N. Ray, Deputy Director (PA-N), CWC, New Delhi.
13. T.D. Sharma, Deputy Director (PA-C), CWC, New Delhi.
14. Bhupender Singh, Deputy Director (IP-S), CWC, New Delhi.

(b) Ministry of Water Resources

1. Indra Raj Commissioner (Projects), M/o Water Resources, New Delhi.
2. A. N. Das Director (Finance), M/o Water Resources, New Delhi.
3. Rajiv Singhal, Deputy Commissioner, Gaanga, MoWR, New Delhi.

(c) Ganga Flood Control Commission (GFCC), Patna

1. Ravinder Singh, Member (Planning)

(d) State Government Officers:

Andhra Pradesh

1. Satish Chandra, Secretary (Irrigation), Hyderabad
2. BVS Prakasa Rao, Engineer in Chief (Hydrology), Hyderabad.
3. C. Vishwanath, Resident Commissioner, AP Bhawan, New Delhi.
4. B.S.N. Reddy, Chief Engineer, GLIS, Hyderabad.
5. M. Venkateswara Rao, Chief Engineer, Indrasagar Polavaram Project, Dowlaiswaram.
6. P.Prabhakar Reddy, Commissioner, Godavari Basin,
7. K. Rama Krishana, Superintending Engineer, Irri. Deptt. Hyderabad.

Maharashtra

1. V.V. Gaikwad, Secretary (WR), Mantralaya, Mumbai
2. R.M. Landge, Ex. Director, Vidarbha Irrigation Devl. Corpn., Nagpur
3. M.I. Shaikh, Chief Engineer (WRD), Sinchai Bhawan, Nagpur
4. S.N. Hudder, Adviser (WRD), Mumbai.
5. S.R. Suryawanshi, Chief Engineer, (Gusi Kurd), WRD, Nagpur.
6. M.V. Patil, Chief Engineer (WRD), Amarawati

Manipur

1. Th. Indaramani Singh, Superintendent Engineer

Rajasthan

1. S.K. Gupta, Chief Engineer & Addl. Secretary, WRD, Jaipur
2. B.D. Vijay, Superintendent Engineer, WRD, Kota.

No. 16/27/2007-PA (N)/ 1044-76
GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION
PROJECT APPRAISAL ORGANIZATION
SEWA BHAWAN, R.K. PURAM, NEW DELHI.

Date 12th July, 2007.

Sub: **89th meeting of the Advisory Committee for consideration of techno economic viability of Irrigation, Flood Control and Multipurpose Project proposal held on 27.06.2007.**

Summary record of discussions of the above meeting held at New Delhi on 27th June, 2007 is enclosed for information and necessary action please.

C.S. Mathur
12.7.07
(C.S. MATHUR)
CHIEF ENGINEER (PAO) &
MEMBER SECRETARY
Tel/Fax No. 26103561

COPY TO: MEMBERS OF COMMITTEE:

1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
2. Secretary (Expenditure), Ministry of Finance, (1st Floor) North Block, New Delhi.
3. Secretary, Department of Power, S.S. Bhawan, Room No- New Delhi.
4. Secretary, Ministry of Environment & Forests, 4th Floor, Room No- 404/05
Paryavaran Bhawan, CGO Complex, New Delhi.
5. Secretary, Ministry of Tribal Affairs, Room No. 738, A-Wing, Shastri Bhawan, New Delhi.
6. Secretary, Department of Agriculture & Cooperation, Room No 126 Krishi Bhawan, New Delhi.
7. Director General, ICAR, Room No-108, 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.
10. Principal Adviser (WR), Planning Commission, Room No-255 Yojana Bhawan, New Delhi.
11. Adviser (Power), Planning Commission, Room No-263 Yojana Bhawan, New Delhi.
12. Financial Adviser, Ministry of Water Resources, Room No-401 S.S. Bhawan, New Delhi.

Special Invitees:

13. Member (WP&P), CWC, New Delhi.
14. Member (D&R), CWC, New Delhi.
15. Member (RM), CWC, New Delhi.
16. Commissioner (Projects), Room No-411 Ministry of Water Resources, New Delhi.
17. Secretary, Water Resources Deptt, Govt of Bihar, Sinchai Bhawan, Patna.
18. Secretary, Irrigation & PH & CAD, Govt of Himachal Pradesh, Secretariat, Shimla-171002.
19. Secretary, Irrigation Deptt. Govt of Uttar Pradesh, Secretariat, Lucknow-226001.
20. Secretary, Water Resources Deptt, Govt of Maharashtra, Mantralaya, Mumbai - 400 032.
21. Secretary, Irrigation, Govt of Orissa, Bhubaneswar.
22. Secretary, Irrigation, Govt of Nagaland, Kohima.
23. Secretary, Irrigation, Govt of Manipur, Imphal.
24. Chief Engineer (Mon-C), CWC, CGO Complex, Seminary Hill, Nagpur-440 006
25. Chief Engineer, IBO, CWC, Chandigarh.
26. Chief Engineer, B&BB, CWC, Shillong.
27. Chief Engineer (PMO), CWC, New Delhi.
28. Director, Project Appraisal (North), CWC, New Delhi.
29. Director, Project Appraisal (Central), CWC, New Delhi.
30. Director, Project Appraisal (South), CWC, New Delhi.
31. Director, (M&A), CWC, Guwahati.
32. Director, (M&A), CWC, Shimla.

Copy for information to -

33. Sr. PPS to Secretary, Ministry of Water Resources, Room No-407 New Delhi.

**SUMMARY RECORD OF DISCUSSIONS OF THE 89TH MEETING OF THE ADVISORY
COMMITTEE ON IRRIGATION, FLOOD CONTROL & MULTIPURPOSE PROJECTS OF
MINISTRY OF WATER RESOURCES HELD ON 27.06.2007.**

The 89th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Project proposals was held on 27th June, 2007 at 1100hrs. in the Labour Committee Room of Ministry of Labour and Employment, SS Bhawan, New Delhi under the chairmanship of Secretary (WR), MoWR. A list of participants is enclosed as Annexure-1.

The Chairman welcomed the members of the Committee and other officers present and requested the Member-Secretary to take up the agenda for discussion. The Member-Secretary mentioned that techno-economic viability of 12 projects including 3 projects under PM's Package were proposed to be discussed in the meeting.

Thereafter the Agenda Items were taken up for discussions.

1. Confirmation of the minutes of the 88th TAC meeting:

The minutes of the 88th meeting held on 02.03.2007 in the Labour Committee Room of Ministry of Labour and Employment, SS Bhawan were confirmed.

2. Projects under consideration:

2.1. D'zuza Irrigation Scheme (New-Medium), Nagaland:

The Chief Engineer (PAO) briefly introduced the project. The scheme envisages construction of a 120m long barrage on river D'zuza with canals on both the banks for providing irrigation to a CCA of 8109 ha. and an annual irrigation of 10156 ha. It was further informed that the forest cover (25 ha.) coming under submergence did not fall within the purview of forest clearance. The cost of the project was finalized for Rs. 75.20 crore at 2006-07 Price Level and B.C. Ratio was worked out to 1.73.

After discussion the Committee cleared the project.

2.2. Punpun Barrage Project (Revised-Major), Bihar:

The Chief Engineer (PAO) briefly introduced the project. The scheme envisages construction of a 178m long barrage on river Punpun in Aurangabad district of Bihar. It is an ongoing project which was accepted by TAC in 8/2001 and investment clearance was accorded by the Planning Commission for Rs. 102.26 crore in 01/2006.

The revised cost of the project has been finalized for Rs. 199.41cr (PL 2005) with B.C. ratio of 1.73 and internal rate of return of 16%.

Commissioner (PR) raised the issue of water availability at the barrage site which was probably based on the data of Sripalpur site, about 78 Km downstream of the Barrage. It was clarified that the water availability had been finalized by Hydrology Unit of CWC earlier after due examination taking into account all hydrological aspects.

After discussion the Committee cleared the project.

2.3. Madhya Ganga Canal Pariyojana Stage-II (New-Major), UP:

The Chief Engineer (PAO) briefly introduced the project. It is planned to utilize the monsoon discharge of river Ganga by diverting to a canal system through an existing left bank canal head regulator of Madhya Ganga Barrage in Bijnor, U.P. The project envisages construction of 66.2 km. long lined main canal with a capacity of 121.8 cumec bifurcating into Bahjoi (50 km) & Chandausi (60 km) unlined branches & a 1653 km long distribution system. The project benefits CCA of 2,25,433 ha – annual irrigation being 1,46,532 ha.

The UP Govt. has accorded concurrence for the finalized cost of the project viz. Rs.1095.41 crores (PL-2004).

The project area passes through Hastinapur Wild Life Sanctuary. The Hon'ble Supreme Court on the basis of the recommendations of Central Empowered Committee has given a go ahead to the project subject to fulfillment of certain conditions. One of them is that the project authorities have to obtain approval of MoEF under Forest Conservation Act.

The Project authorities clarified that they will be making payment to MoEF in a week's time & will obtain the requisite forest clearance expeditiously.

After detailed discussion the Committee cleared the project subject to forest clearance from MoEF to be obtained at the earliest.

2.4. Lower Indra Irrigation Project (Revised-Major), Orissa:

The Chief Engineer (PAO) briefly introduced the project. It envisages construction of a 4217 m long earthen dam, a central spillway & canals on both the banks. The live storage capacity is 314.252 MCM. The project benefits CCA of 29,900 ha. (Annual irrigation being 38,870 ha) in Kalahandi (drought prone) and Bolangir districts of Orissa. The project was earlier accorded investment clearance for an estimated cost of Rs. 211.70 crores (PL 1996) on 4.2.1999.

The revised cost has been finalized for Rs. 521.13 crore (PL 2006-07) and the BC Ratio has been worked out as 1.68.

After discussion the committee cleared the revised cost estimate of the project.

2.5. Thoubal Multi-Purpose Project (Revised- Major), Manipur

C.E. (PAO) briefly introduced the project. It envisages construction of an 1074 m long and 66 m high earthen dam across river Thoubal with the live storage of 124.58 MCM. It provides for annual irrigation to 33,449 ha (CCA being 21,862 ha), power generation of 7.5 MW installed capacity and water supply to Imphal town and areas surrounding it.

The original estimate was approved by the Planning Commission for Rs. 47.25 crores (PL-1977) in May 1980. Subsequently, the project was accepted by the TAC of MoWR in its 67th meeting held on 9.9.1997 for a revised cost of Rs. 254.00 crore (PL 1994) subject to Forest and R&R clearance. CEA has cleared the power component in 1984.

Environment clearance has been accorded by MoEF on 7.9.1979 and RR plan has been cleared by MoTA on 6.11.1997. Forest clearance from MoEF is yet to be obtained.

The project cost has now been revised for Rs. 715.81 crores (PL 2005). BC Ratio for the irrigation component is 1.02. The State government has accorded the financial concurrence for the above revised cost. The State government has now intimated that as the first approval by Planning Commission was given in May 1980 before the Forest Conservation Act came into existence, the project would not require obtaining forest clearance from MoEF. However, they have provided for compensatory afforestation and catchment area treatment in the Revised Estimate.

The project engineers indicated that it is proposed to complete the project by 2008-09. It was emphasized in the meeting that the project should be completed timely to avoid any further cost and time over runs.

After detailed discussion, the Committee cleared the revised project estimate subject to obtaining forest clearance from MoEF. The necessity of obtaining forest clearance is also to be checked up by the project authorities from MoEF.

2.6. Chandrabhaga & Sapan Irrigation Projects (New -Medium), Maharashtra:

The Chief Engineer, PAO briefly introduced the above two projects of Maharashtra located in Tapi basin. Both these projects were considered in the 88th meeting of the Advisory Committee and deferred for want of clarification regarding utilization of Tapi Waters by Maharashtra within their allocated share. It was informed that the major difference in water utilization was in respect of Girna project (In the TAC note of Punand Project its utilization was indicated as 21.48 TMC and as per Maharashtra Govt. its actual utilization is 9.524 TMC). Govt. of Maharashtra has given an undertaking that it will

submit completion report in respect of Girna Project as per their actual utilization and that they would limit their total utilization in Tapi basin to 191.4 TMC.

The cost of Chandrabhaga irrigation project was finalized for Rs.188.925 cr (2005-06 PL) with B.C. ratio as 1.43 and IRR as 9.40% and the cost of Sapan irrigation project was finalized for Rs.200.70 cr.(2005-06 PL) with B.C. ratio as 1.05 and IRR as 9.87%. The need for timely completion of projects with low BC ratios was emphasized by Deputy Advisor, Planning Commission, particularly in case of Sapan where B.C. ratio was 1.05.

After discussions, the Committee accepted both the projects which are included in PM's package.

2.7. Uttarmand, Wang, Morna (Gureghar) Irrigation Projects (New-Medium), Maharashtra:

The Chief Engineer, PAO briefly introduced the above three new medium irrigation projects of Krishna Basin, Maharashtra. It was mentioned that utilization in these three projects is well within the allocated share of Maharashtra. Further, it was brought out that a provision of 5 TMC of water is to be provided by Govt. of Maharashtra in their water account for drinking water requirement of Chennai city as per agreement dated 14.4 1976 between the States of AP, Karnataka and Maharashtra.

The cost of Uttarmand irrigation project has been finalized for Rs. 123.17 crores (PL 2005-06) with BC Ratio as 1.5. The cost of Wang irrigation project has been finalized for Rs.162.78 crores (PL 2005-06) with BC Ratio as 1.48. The cost of Morna (Gureghar) irrigation project has been finalized for Rs. 129.64 crore (PL 2005-06) with BC ratio as 1.48 .

As regards high cost per ha. of annual irrigation (Rs. 4.21 lakh/ ha.)in respect of Morna (Gureghar) , it was clarified by the project authorities that this was because of its location in hilly terrain besides benefiting drought-prone area .

After detailed discussions, the Committee accepted these three projects.

2.8. Pentakli Irrigation Project (New -Major), Maharashtra:

The Chief Engineer, PAO briefly introduced the project features. The project is proposed to provide irrigation facilities to CCA of 10700 ha, besides providing 10.75 MCM water supplies to Chikhali and other towns and 2.3 MCM water supply for industrial purposes to Chikhali town. The project will benefit drought-prone area of Maharashtra State.

The project proposal also includes generation of 250 KW power through ICPO. It was informed that the project was conceived earlier as a medium irrigation project but

because of changes in scope (increase in CCA) it has now become a major irrigation project.

The cost of the project has been finalized for Rs. 169.69 crore at 2003-04 Price Level with BC ratio as 1.49 and IRR as 10.80%. The project is included in PM's package.

The project authorities in response to queries clarified that the project was nearing completion (Physical progress about 95%) and that the project would be completed in another 1.5 years. After discussion, the Committee accepted the project.

2.9. Sidhatha Irrigation Project (Revised-Medium), Himachal Pradesh:

The Chief Engineer, PAO briefly introduced the project which envisages diversion of water of Dehar stream, a tributary of Beas river, by constructing a small weir at village Anuhi , district Kangra through a suitable water conductor. The project was accepted by TAC earlier in September 1997 and was approved by the Planning Commission in 2000 for Rs.33.62 crores (1996-97 PL).

The project authorities intimated that the project would be completed by 2008-09. The cost of the project has been finalized for Rs.66.35 crores (PL 2006). The BC Ratio and IRR of the project have been worked out as 1.54 and 16% respectively.

After discussion, the Committee accepted the project.

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

LIST OF PARTICIPANTS

MEMBERS OF COMMITTEE:

S/Shri/Smt

- | | |
|---|------------------|
| 1. Gauri Chatterji, Secretary (WR), MOWR, New Delhi. | In the Chair |
| 2. S.K. Das, Chairman, CWC, New Delhi. | Member |
| 3. Avinash Mishra, Dy-Adviser-WR, Planning Commission, New Delhi.
(Representing Adviser-WR) | Member |
| 4. Ananya Ray, Joint Secretary & Financial Adviser – MOWR, New Delhi. | Member |
| 5. B.M. Jha, Chairman, CGWB, New Delhi. | Member |
| 6. Tanmoy Das, Director (H.P. & I Div.), CEA, New Delhi.
[Representing Chairman, CEA] | Member |
| 7. Dr D.K. Paul, Principal Scientist (IWM), ICAR, KAB-II,
Pusa, New Delhi. (Representing Director General, ICAR) | Member |
| 8. Shamsheer Singh, Add. Commissioner, M/o Agriculture, New Delhi.
(Representing Secretary, M/o Agriculture). | Member |
| 9. C.S. Mathur, Chief Engineer, PAO, CWC., New Delhi. | Member-Secretary |

Special Invitees:

(a) Central Water Commission.

1. B.S. Ahuja, Member (WP&P), CWC, New Delhi.
2. A.B. Pal, Member (RM), CWC, New Delhi.
3. A.K. Bajaj, Chief Engineer (IBO), CWC, Chandigarh.
4. R. Nair, Chief Engineer (HOS), CWC, New Delhi.
5. R.P. Saxena, Chief Engineer (MCO), CWC, Nagpur.
6. Lalit Kumar, Director (M&A), CWC, Gowahati.
7. P.S. Mandal, Director (CA-I), CWC, New Delhi.
8. Ramaesh Grover, Director, (Mon), CWC, Nagpur.
9. Gorakh Thakur, Director (PA-N), CWC, New Delhi.
10. Bhupal Singh, Director (M&A), CWC, Shimla
11. R.N. Ray, Deputy Director (PA-N), CWC, New Delhi.
12. T.D. Sharma, Deputy Director (PA-C), CWC, New Delhi.
13. A. Prabhakar, Deputy Director (PA-S), CWC, New Delhi.

(b) Ministry of Water Resources

1. S. Manoharan, Addl. Secretary, M/o Water Resources, New Delhi.
2. Indra Raj, Commissioner (Projects), M/o Water Resources, New Delhi.
3. A. N. Das, Director (Finance), M/o Water Resources, New Delhi.

(C) State Government Officers:

Bihar

1. K.P. Singh, Superintending Engineer, WR Deptt, NKCC
2. P.K. Jha, Resident Engineer/Liaison Officer, WR Deptt, New Delhi.

Himachal Pradesh

1. Y.P. Rana, Chief Engineer, SNP, Irrigation Deptt, Fatehpur, Kangra.
2. L.K. Vaidy, Superintending Engineer, SNP, Irrigation Deptt, Fatehpur, Kangra.

Maharashtra

1. V.V. Gaikwad, Secreetary (WR), Mantralaya, Mumbai
2. R.M. Landge, Ex. Director, Vidarbha Irrigation Devl. Corpn., Nagpur
3. H.Y. Kolawale, Ex. Director, MKVDC, Pune.
4. S.M. Upase, Chief Engineer (WRD), Pune.
5. M.V. Patil, Chief Engineer (WRD), Amravati.
6. S.N. Hudder, Adviser (WRD), Mumbai.
7. P.C. Ghaling, Superintending Engineer, I&P Circle, Satara.
8. Sharad Gawande, Superintending Engineer, Buldana Irr. Project Circle, Buldana.
9. Shiv Kumar Giri, Superintending Engineer, Upperwardha Project Circle, Amrawati.
10. Sanjay Kulkarni, Superintending Engineer, Akola Irr. Circle, Akola.

Manipur

1. Manihar Singh, Chief Engineer, IFC Department., Manipur.
2. K.L.A. Singh, Superintending Engineer(IFC), Circle, Manipur.

Nagaland

1. Mezakrol, Chief Engineer (IFC) Deptt, Kohima.
2. E. Laha, Superintending Engineer (IFC) Deptt., Kohima.

Orissa

1. Aurobindo Behera, Principal-Secy(I&WR) Deptt., Bhubaneswar.
2. Kumud R. Acharya, Deputy Director, Planning, WRD, Bhubaneswar.

Uttar Pradesh

1. Alan Singh, Chief Engineer, Madhya Ganga, Aligarh.
2. G.D. Singhal, Nodal Officer, WRD, Lucknow.

No. 16/27/2007-PA (N)/ 1655-90
GOVERNMENT OF INDIA
CENTRAL WATER COMMISSION
PROJECT APPRAISAL ORGANIZATION
SEWA BHAWAN, R.K. PURAM, NEW DELHI.

Date 5th October, 2007.

Sub: 90th meeting of the Advisory Committee for consideration of techno economic viability of Irrigation, Flood Control and Multipurpose Project proposal held on 26.09.2007.

Summary record of discussions of the above meeting held at New Delhi on 26th September, 2007 is enclosed for information and necessary action please.

C. S. Mathur

(C.S. MATHUR)
CHIEF ENGINEER (PAO) &
MEMBER SECRETARY
Teli Fax No. 26103561

COPY TO:**To Member of Committee**

1. Chairman, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
2. Secretary (Expenditure), Ministry of Finance, (1st Floor) North Block, New Delhi.
3. Secretary, Department of Power, S.S. Bhawan, Room No- New Delhi.
4. Secretary, MoEF, 4th Floor, Room No- 404/05 Paryavaran Bhawan, CGO Complex, New Delhi.
5. Secretary, Ministry of Tribal Affairs, Room No. 738, A-Wing, Shastri Bhawan, New Delhi.
6. Secretary, Department of Agriculture & Cooperation, Room No 126 Krishi Bhawan, N. Delhi.
7. Director General, ICAR, Room No-108, 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.
10. Principal Adviser (WR), Planning Commission, Room No-255 Yojana Bhawan, New Delhi.
11. Adviser (Power), Planning Commission, Room No-263 Yojana Bhawan, New Delhi.
12. Financial Adviser, MoWR, Room No-401 S.S. Bhawan, New Delhi.

Special Invitees:

13. Member (WP&P), CWC, New Delhi.
14. Member (D&R), CWC, New Delhi.
15. Member (RM), CWC, New Delhi.
16. Chairman, GFCC, Sinchai Bhawan, Patna - 800015
17. Commissioner (Projects), Room No-411 Ministry of Water Resources, New Delhi.
18. Commissioner (Ganga), Ministry of Water Resources, CGO Complex, Block XI, 8th Floor, Lodi Road, New Delhi.
19. Commissioner (Indus), Ministry of Water Resources, CGO Complex, Block XI, 8th Floor, Lodi Road, New Delhi.
20. Secretary, Irrigation, Govt. of H.P., Sachivalaya, Simla - 171002.
21. Secretary, Irrigation, Govt. of J & K, Civil Sectt., Srinagar - 190001
22. Secretary, Irrigation, Govt. of Maharashtra, Mantralaya, Mumbai - 400032
23. Secretary, Water Resources Deptt, Govt of Bihar, Sinchai Bhawan, Patna.
24. Secretary, Irrigation Deptt., Govt of Uttar Pradesh, Lucknow
25. Secretary, Irr. & Waterways Deptt., Govt. of West Bengal, Kolkata
26. Secretary (WR), Govt. of Chhattisgarh, Raipur
27. Chief Engineer (IBO), CWC, Chandigarh.
28. Chief Engineer (Mon), CWC, New Delhi.
29. Chief Engineer (Mon-C), CWC, Nagpur.
30. Director (M&A) CWC, Jammu
31. Director, M&A, CWC, Shimla.
32. Director, Appraisal, CWC, Nagpur.
33. Director, Project Appraisal (South), CWC, New Delhi.
34. Director, Project Appraisal (Central), CWC, New Delhi
35. Director (PP-C), CWC, New Delhi

Copy for information to -

36. Sr. PPS to Secretary, Ministry of Water Resources, Room No-407 New Delhi.

**SUMMARY RECORD OF DISCUSSIONS OF THE 90TH MEETING OF THE ADVISORY
COMMITTEE ON IRRIGATION, FLOOD CONTROL & MULTIPURPOSE PROJECTS OF
MINISTRY OF WATER RESOURCES HELD ON 26.09.2007.**

The 90th meeting of the Advisory Committee for consideration of techno-economic viability of Irrigation, Flood Control and Multipurpose Projects proposals was held on 26th September, 2007 at 1530 hrs. in the Chamber of Secretary, MoWR, SS Bhawan, New Delhi. A list of participants is enclosed as Annexure-1.

Secretary (WR), the Chairman of the Committee welcomed the members and other officers present and requested the Member-Secretary to take up the agenda for discussion. The Member-Secretary mentioned that techno-economic viability of 13 projects were to be discussed.

Thereafter Agenda Items were taken up for discussions.

1. Confirmation of the minutes of the 89th TAC meeting

The minutes of the 89th meeting held on 27th June, 2007 at 1100hrs. in the Labour Committee Room of Ministry of Labour and Employment, S S Bhawan, New Delhi under the Chairmanship of Secretary (WR), MoWR, were confirmed as there were no comments from members in this regard.

2. Projects under consideration

2.1 Shahnehar Irrigation Project (Revised – Major) – Himachal Pradesh:

The Chief Engineer, PAO briefly introduced the project. The scheme envisages drawal of water from the existing pondage of Shahnehar Barrage to provide irrigation facilities to a CCA of 15287 ha. The command area is situated on both bank of the river Beas.

The proposed Left Bank Canal is 30 km. long with carrying capacity of 3.82 cumecs. It will provide irrigation to a CCA of 6183 ha. This canal will take off from the existing Mukerian Hydel Channel.

The Right Bank canal is 48.85 km. long with a carrying capacity of 6.48 cumecs. It will provide irrigation to a CCA of 9104 ha. The canal will take off from the pondage of the Shahnahar Barrage.

The cost of the project has been finalized for Rs. 310.89 crore at 2006-07 P.L. The BC Ratio and IRR has been worked out to 1.71 and 17% respectively.

The project is scheduled to be completed by March, 2010. However, the project authorities were requested to complete the project at the earliest possible. The project authorities intimated that they are yet to receive their due share from Punjab. It was intimated that this issue needs to be taken up separately and that it does not fall in the purview of TAC.

After discussion the Committee accepted the project.

2.2 Changer Area Lift Irrigation Project (Revised – Medium) – Himachal Pradesh

The Chief Engineer, PAO briefly introduced the project. The proposed project is located at the foot hills of Naina Devi Jee Temple district of Bilaspur. The water for the project will be drawn from Annandpur Sahib Hydel channel through a Syphon outlet at RD 14160 near Dabat Balli Aquaduct. It will irrigate a CCA of 2350 ha. The cost of the project has been finalized for Rs. 88.09 crore (PL-2007) and the BC Ratio has been worked out to 2.054.

The project is scheduled to be completed by March, 2011. However, the project authorities were requested to complete the project at the earliest possible. The project authorities intimated that in view of the difficult working conditions in the area they had provided for more time.

After discussion the Committee accepted the project

2.3 Bateshwarsthan Ganga Pump Canal Scheme , Phase –I (Revised –Major) –Bihar

The Chief Engineer, PAO briefly introduced the project. The proposed project was earlier accorded investment clearance by the Planning Commission in January 1977 for Rs 13.88. The project envisages lifting of water from river Ganga during July to December in two stages of 23 & 29 meters, construction of canal system, etc for providing irrigation to Bhagalpur District of Bihar and Godda district of Jharkhand.

It was informed that the Advisory Committee in its 72nd meeting held on 18.01.2000 had accepted the project for Rs 212.00 crores. subject to environmental clearance from MoEF etc. However, investment clearance could not be accorded.

The Revised cost has now been finalized for Rs 389.31 crores (PL- 2007). The B.C.Ratio and IRR have been worked out to 2.06 and 21 % respectively.

MoEF meanwhile has intimated that under the provisions of EIA Notification 1994 , no ex post facto environmental clearance for a project can be granted .The project has however, received investment clearance way back in Jan., 1977 .It was also informed that Govts . of Bihar and Jharkhand have signed MOU on implementation of Bateshwarsthan Ganga Pump Canal Scheme Phase I as some portion of canal system/command area lies in newly created Jharkhand state .

As regards State financial concurrence, it was informed that the Chief Engineer, Planning & Monitoring WRD, Bihar Govt. had intimated vide his letter dated 20th Sep 2007(Annexure-VI of the TAC Note) that the State finance concurrence (SFC) had been obtained for Rs 577.94 Crore. However ~~Engineer-in-Chief~~ subsequently informed (vide fax dated 25.09.2007) that State Finance Concurrence for Rs 389.11 Crore was in process.

The project authorities informed the committee that the project is located nearby Kahalgaon NTPC Power Station and therefore there will be no shortage of power for the scheme. The shortage of fund was attributed as reason for the delay. The project authorities clarified that the State Finance Concurrence accorded by the State Govt. for Rs. 577.94 crores was for both the phases of the project whereas concurrence for first phase for Rs. 389.11 crore was being processed.

After discussion the Committee accepted the project.

2.4 Bansagar Canal Project (Revised -Major)-U.P.

The Chief Engineer, PAO briefly introduced the project. The proposed project was earlier accorded investment clearance by the Planning Commission for Rs 570.35 crores in July 2004.

The project envisages construction of a canal system taking off from a common feeder from Bansagar dam and other allied works. It shall provide additional annual irrigation to 1,50,132 ha.

(CCA being 2,32,411 ha) The districts benefited are Allahabad and Mirzapur

The share of U.P. from Bansagar dam is 1 MAF. The total volume proposed to be drawn from this project is 0.73 MAF.

The Bansagar feeder canal for U.P. will draw 1640 cusecs and is planned to run for a total of 255 days. There is no change in scope in the revised estimate.

The revised cost has been finalized as Rs 1674.11 crore (Price level 2006) excluding U.P's share cost of Bansagar dam. Thus the total cost works out to Rs.2053.60 crores. The B.C. Ratio is 1.126. The IRR is 10%. The project benefits DPAP areas.

It was informed by Project Authorities that the project completion was delayed on account of Environment & Forest clearances from MoEF.

After discussion the Committee accepted the project.

2.5 Parkachick Khawas Irrigation Canal (New-Medium)- J&K

The Chief Engineer, PAO briefly introduced the project

The proposed scheme envisages construction of 18 km lined canal including 900 m long tunnel. The capacity of the canal is 4.42 cumec. It takes off from right bank of river Suru, a tributary of river Indus in the district of Kargil to irrigate a CCA of 2262 ha. There is no forest land involved in the canal alignment nor any displacement of tribal population. The cost of the project has been finalized for Rs. 35.44 crore at March/2007 PL. The BC Ratio and IRR has been worked out to 2.40 & 23% respectively.

The clearance on international aspect has been accorded by the Indus Wing of MoWR and State Finance concurrence has been submitted by project authorities. It was informed that the command area was in small patches. They will receive irrigation through the proposed project proposal. As regards tunneling it was informed by the project authorities that necessary geological investigations were carried

in the past. It was also informed that they possess necessary experience of tunneling and necessary geological investigations were carried out in the past.

The Committee then accepted the project.

2.6 Improvement of South Saraswati River (Flood Control) - West Bengal :

The Chief Engineer, PAO briefly introduced the project

The proposed scheme provide for drainage improvement in respect of southern portion of Saraswati river. It envisages resectioning /desilting of the river from chainage 0.00(offtake) to chainage 1410.00(outfall), remodeling /reconstruction of all damaged & inadequate structures viz. regulators, bridges, etc, remodeling/reconstruction of cross regulator on river south Saraswati at offtake ,sluice construction at the outfall of river Saraswati into river Hoogly etc. . The cost of the project has been finalized for Rs. 32.10 crore (Pl -7/06) by GFCC, Patna and BC Ratio has been worked out to 2.04.

It was informed by Chairman, GFCC that clearance from the State Pollution Control Board had been obtained by the project authorities.

After discussion the Committee accepted the project

2.7 Mahanadi Reservoir Project (Revised – Major) – Chhattisgarh:

The Chief Engineer, PAO briefly introduced the project

The project envisages dam safety related improvements in three existing dams viz. Moorum Silli, Dudhawa and Ravishankar Sagar Dam, completion of new Rudri Barrage on river Mahanadi (balance works) and canal system consisting of Mahanadi feeder canal .Mahanadi main canal etc. The project also envisages construction of Tube wells and Dug wells for exploitation of ground water.

Earlier the proposal was accorded investment clearance by the Planning Commission on 1.7.2003 for Rs. 566.88 crores . The revised cost of the project has now been finalized for Rs. 845.00 crore (PL – 1/2003) and BC Ratio has been worked out as 1.84.

It was informed by the project authorities that the project would be completed within the revised estimated cost of Rs. 845 crore by the year 2008

After discussion the Committee accepted the project

2.8 Sangola Branch Canal Project (New – Major)

Chief Engineer (PAO) introduced the Project intimating that it was earlier accepted by the TAC in its 43rd meeting held on 18.5.1989 subject to certain conditions. The project envisages construction of a lined branch canal taking off from existing Nira Right Bank Canal at Km. 169 and lining in the terminal reach of NRBC from Km. 114 to 169, branch canals etc. The water availability would be made by savings in seepage / transmission losses.

MoEF has agreed for diversion of 6.38 ha. of forest land involved in the Project and regarding Environmental clearance, the MoEF have clarified that the project does not attract the provisions of the EIAS Notification 1994/2006 since the construction of the project was started during 1980-81.

The cost has now been finalized for Rs. 288.77 crore (PL – 2006-07) and BC Ratio has been worked out as 1.183 (DPAP)

After discussion, the Committee accepted the Project .

2.9 Krishna Keyna Lift Irrigation Project: -

Chief Engineer (PAO) introduced the project intimating that it was accepted earlier by the TAC in its 42nd meeting held on 11.1.1999 subject to certain conditions. The project proposal at that time envisaged lifting from two points to cater to a CCA of 107164 ha. Subsequently, Govt. of Maharashtra submitted the DPR with change in scope increasing CCA to 172470 ha, which has been finalized for Rs. 2224.76 crore (2006-07 price level) out of which an expenditure of Rs. 1015.86 crore has been incurred upto March 1006. The Dy. Advisor (WR), Planning Commission requested to intimate about commitment of power required for lifting of water in the project, to which project authorities clarified that MSEB has given its commitment for supply of 150 MW power. The Secretary (WR) raised the issue regarding clearances of MoEF for the extended area in the Project, to which Project Authorities intimated that the requisite environment clearance had not been received so far. However, 'in principle' clearance for diversion of forest for the extended area has been given by MoEF. .

After discussion the Project was deferred for want of Environment clearance from MoEF.

2.10. Sulwade, Sarangkheda & Prakasha Barrages (New Medium):-

The Chief Engineer (PAO) introduced the above 3 medium irrigation projects of Maharashtra and intimated that these projects were earlier considered by the Advisory Committee of MoWR in its 84th TAC Meeting held on 1.5.2005 and were deferred for want of integrated hydrology of the projects and for want of an agreed water account of Tapi Basin for Maharashtra. It was informed that the hydrology studies for these projects have since been completed and also that the total utilization for Maharashtra projects in Tapi Basin including these three projects was within the allocated amount of 191.4 TMC.

The cost of Sulwade, Sarangkheda & Prakasha Barrages have been finalized as Rs. 290.88 crore (PL – 2006-07), Rs. 202.97 crore (SOR 1999-2000) & Rs. 178.91 crore (1999-2000 SOR) respectively. The BC Ratio have been worked out as 1.278 , 2.546 and 2.413 respectively. All these barrages benefit Drought- prone areas. These barrages are in an advanced stage of constructions. They envisaged lift irrigation by cooperative and private societies.

The project authorities also submitted the State Finance concurrence of Govt of Maharashtra in respect of the above three projects in the meeting.

The project authorities clarified that these projects are nearing completion and that no further escalation in cost is anticipated.

After discussion, the Committee accepted the above three projects.

2.11 Kudali Irrigation Project (New – Medium)

Chief Engineer (PAO) briefly introduced the project and mentioned that the project lies in Krishna basin. Considering the proposed utilization for this project as 1.63 TMC, the total proposed utilization for Maharashtra is still within their allocated share, i.e. 585 TMC. It was informed that 1.80 ha. of forest land is involved in the Project (for left bank canal), for which clearance is required. The project envisages two dams viz. Mahu dam on river Kudali and Hatgeghar dam on Hatgeghar nalla and provides for annual irrigation of 8480 ha by suitable canal system. The cost was finalized for Rs. 271.80 crore (2005-06 – Price Level) with BC Ratio of 1.501.

After discussion, the Project was deferred for want of clearance of MoEF for the forest land involved in the Project.

LIST OF PARTICIPANTS

MEMBERS OF COMMITTEE:

S/Shri/Smt

- | | |
|--|------------------|
| 1. Gauri Chatterji, Secretary (WR), MOWR, New Delhi. | In the Chair |
| 2. B.S. Ahuja, Chairman, CWC, New Delhi. | Member |
| 3. Avinash Mishra, Dy-Adviser-WR, Planning Commission, New Delhi.
(Representing Adviser-WR) | Member |
| 4. Ananya Ray, Joint Secretary & Financial Adviser – MOWR, New Delhi. | Member |
| 5. B.M. Jha, Chairman, CGWB, New Delhi. | Member |
| 6. Tanmoy Das, Director (H.P. & I Div.), CEA, New Delhi.
[Representing Chairman, CEA] | Member |
| 7. Dr P.S.Minhas, ADG,(IWM) ,ICAR,KAB-II,
Pusa, New Delhi. (Representing Director General, ICAR) | Member |
| 8. Smt.Babni Lal, Director(PF-I), M/o Finance, New Delhi.
(Representing Secretary-Expenditure, M/o Finance). | Member |
| 9. C.S. Mathur, Chief Engineer, PAO, CWC. , New Delhi. | Member-Secretary |

Special Invitees:

(a) Central Water Commission.

1. M.L. Goyal, Member (RM), CWC, New Delhi.
2. Jhujhar Singh, Chief Engineer (IBO), CWC, Chandigarh.
3. S.K.Banerjee, Chief Engineer (PPO), CWC, New Delhi.
4. D.K.Kaushik, Chief Engineer (PMO), CWC, New Delhi.
5. R.P. Saxena, Chief Engineer(MCO), CWC, Nagpur.
6. Dr.Samir Chatterjee, Director (M&A), CWC, Jammu.
7. Ramaesh Grover, Director, (Mon), CWC, Nagpur.
8. Gorakh Thakur, Director (PA-N), CWC, New Delhi.
9. Bhupal Singh, Director (M&A), CWC, Shimla.
10. R.N. Ray, Deputy Director (PA-N), CWC, New Delhi.
11. T.D.Sharma, Deputy Director (PA-C), CWC, New Delhi.
12. P.C.Jha, Deputy Director (CA-Irr.), CWC, New Delhi.
13. Jacob Cherin, EAD, (PA-N), CWC, New Delhi.
14. A.k.Guha, EAD, (PA-N), CWC, New Delhi.

(b) Ministry of Water Resources

1. Dr.D.V.Thareja, Commissioner (Indus), M/o Water Resources, New Delhi.
2. Indra Raj Commissioner (Projects), M/o Water Resources, New Delhi.
3. Joginder Singh,Dy.Director(Projects), M/o Water Resources, New Delhi.

(c) Ganga Flood Control Commission, Patna:

1. A.K Bajaj,Chairman,GFCC, Sinchai Bhawn,Patna.

(D) State Government Officers:

Bihar:

1. Rama Kant Roy, Executive Engineer, G.P.C.D-2, WR Dept., Bhaglpur, Bihar.
2. P.K. Jha, Resident Engineer/Liaison Officer, WR Deptt, New Delhi.

Chattisgarh:

1. V.M.V.Nair, Chief Engineer, MRP, Raipur.
2. L.R. Verma, Executive Engineer, MRD, Raipur.

Himachal Pradesh:

1. Champeshwar Lall Sood, Superintending Engineer, I&PH Deptt, Jal Bhawn, Kasumpti, Shimla.
2. L.K. Vaidya, Superintending Engineer, SNP Circle, I&PH Deptt, Fatehpur, Kangra.
3. Hari Pal Singh, Executive Engineer, I&PH Division, Bassi, Dist. Bilaspur.

Jammu & Kashmir:

1. Haji Niyaz Ali, Superintending Engineer, Irrigation Deptt. Kargil.
2. Abdul Wahid, Executive Engineer, Irrigation Deptt. Kargil.
3. Nisar Hussain, Assistant Executive Engineer, Irrigation Deptt. Kargil.

Maharashtra:

1. E.V. Patil, Secretary (WRD), Mantralaya, Mumbai.
2. S.W. Dshpande, Ex. Director, TIDC, Jalgaon.
3. P.R. Bhamare, Chief Engineer, TIDC, Jalgaon.
4. B.N. Kandarpale, Chief Engineer, & Joint Secretary (WRD), Mumbai.
5. S.M. Upase, Chief Engineer, Specified Projects (WRD), Pune.
6. S.L. Patil, Chief Engineer (WRD), Pune.
7. S.N. Hudder, Adviser (WRD), Mumbai.
8. P.C. Gholap, Superintending Engineer, SIPC, Satara.
9. V.T. Tandale, Superintending Engineer, KKKI Project Circle, Sangli.
10. A.V. Surve, Superintending Engineer, IPC, Sinchan Bhawan, Pune.
11. R.M. Landge, Ex. Director, Vidarbha Irrigation Devl. Corpn., Nagpur.
12. H.Y. Kolawale, Ex. Director, MKVDC, Pune.
13. C.S. Givvar Singh, Executive Engineer, DMPD No.2, Nandurbad.
14. C.N. Mali, Executive Engineer, DMPD No.1, Dhule.
15. B.R. Bokade, Co-ordinating Officer, KVDC, Pune.
16. B.R. More, Assistant Engineer Gr.-I, WRD, Dhule.
17. D.D. Rothod, SDE, NRBC Sub din. Sangle.

Uttar Pradesh:

1. S.N. Shukla, Secretary, Irrigation Deptt., Lucknow.
2. Jai Prakesh, Engineering-Chief Irrigation Deptt., Lucknow.
3. C.B. Sharma, Chief Engineer (Bansagar), Irrigation Deptt. Allahabad.

West Bengal:

1. D.K. Maiti, Secretary, Irrigation & Water Resources Deptt. Salt Lake, Kolkata.
2. B.K. De, Chief Engineer II, Irrigation & Water Resources Deptt. Salt Lake, Kolkata.