



श्री ५ को सरकार
जलस्रोत मन्त्रालय



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२२६७९६/२२०३८५

फ्याक्स: ९७७-१-२२७५३६
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प.सं.: ०६१।६२ नीति

च.नं.: २१

मिति: २०६१।६।२५

विषय: बैठकको माइन्सूट पठाइएको बारे ।

श्री. राजा गहलवाल
दि. २०६१।६।२५
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०६१।६।२५

श्री, परराष्ट्र मन्त्रालय; शितलनिवास

श्री, अर्थ मन्त्रालय, सिंहदरवार

श्री सिंचाइ विभाग, जावलाखेल

श्री जल उत्पन्न प्रकोप नियन्त्रण विभाग, पुलचोक

श्री विद्युत विकास विभाग, अनामनगर

श्री नेपाल विद्युत प्राधिकरण, दरवारमार्ग

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मन्त्रालय
सहायक
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उल्लेखित विषयमा यही ७-८ अक्टोबर २००४ मा भारतको राजधानी दिल्लीमा सम्पन्न Nepal-India Joint Committee on Water Resources दोस्रो बैठकको माइन्सूटको छाँयाप्रति तहाँको जानकारीको लागि यसै पत्रसाथ संलग्न पठाइएको व्यहोरा निर्देशानुसार अनुग्रेत्र गर्दछु ।

श्री. राजा गहलवाल
श्री. ४१-
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खोम राज दाहाल
(खोम राज दाहाल)
मि. डि. ई.

Minutes of the 2nd meeting of India-Nepal Joint Committee on Water Resources held on 7-8th October 2004

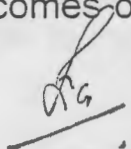
The 2nd meeting of the India-Nepal Joint Committee on Water Resources (JCWR) was held at New Delhi on 7-8th October 2004. The Indian delegation was headed by Shri V.K. Duggal, Secretary, Ministry of Water Resources, Government of India and the Nepalese delegation was headed by Mr. Mahendra Nath Aryal, Secretary, Ministry of Water Resources, His Majesty's Government of Nepal. The list of the delegates is attached at Annex I & II.

In his opening remarks, the leader of the Indian delegation welcomed the Nepalese delegation and appreciated the priority accorded by the Government of Nepal to the bilateral dialogue on water resources - in line with the recent political commitment, at the highest level, by both India and Nepal, to the advancement of co-operation in this sector. He emphasized the need to build on the mandate, given by the Prime Ministers of India and Nepal in their Joint Statement issued on the occasion of the recent visit of Rt. Honourable, Mr. Sher Bahadur Deuba, Prime Minister of Nepal to India and stressed the need to urgently find technically feasible solutions, to existing issues, that are acceptable to both sides.

Reaffirming the need for regular interaction in the JCWR and other bilateral fora, to impart a new momentum to addressing issues of mutual interest, the leader of the Indian delegation also reiterated the need for both countries to rededicate themselves to intensify their joint endeavor to mitigate the devastation caused every year by the effect of flooding on both sides of the border. He assured the Nepalese side that the Government of India wished to address all issues in a spirit of co-operation and accommodation for the benefit of both sides.

The Leader of the Nepalese delegation expressed his gratitude for the excellent hospitality and friendly atmosphere provided to him and his delegation. He stated that water was an important natural resource for the economic development of Nepal and had immense potential which if harnessed would bring huge benefits to both Nepal and India. Highlighting on the recent policies and strategies related to water resources development adopted in Nepal, he said that they were to pave way for private sector involvement and regional and bilateral cooperation in the sector. Taking note of the positive outcomes of the





meetings of the several bilateral committees that took place during recent weeks, he expressed his belief that water related issues would be resolved through collaboration and mutual consultation. Nepalese Team Leader invited the Indian Team Leader and his delegation for the next meeting of JCWR to be held in Kathmandu in April 2005.

The agreed agenda for the meeting is attached at Annex III. The JCWR deliberated on the agenda items and the following decisions were taken:

1. **Mahakali Treaty including implementation of Pancheshwar Multipurpose Project.**

1.1 **Pancheshwar Multipurpose Project:**

The leaders of the two delegations briefed the JCWR on the outcome of discussions held during the 20th meeting (06.10.2004) of the Joint Group of Experts on the Pancheshwar Multipurpose Project and informed the JCWR about the setting up of a small Joint Group to look into a set of inter-related issues and give their recommendations by January, 2005. The JCWR expressed satisfaction at the outcome of the meeting of the JGE and emphasized the need for timely submission of the report by the Joint Group so that a time frame for completion of the DPR could be set.

1.2 **Construction of Head Regulator for supply of water for irrigation for the Dodhara Chandani Area.**

The Indian side mentioned that the supply of 10 cumecs of water to Dodhara Chandani area under article 4 of the Mahakali Treaty was dependent on the implementation of the Pancheshwar Multipurpose Project under Article 3 of the Treaty. The Nepalese side stated that since Articles 3 and 4 are independent of each other and contended that since the area is in acute need of irrigation water, the technical and other details as stipulated in Article 4 need to be mutually worked out at the earliest. The JCWR decided that both sides would examine the interpretation of the provisions of the Treaty and discuss this further during its next meeting.

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1.3 Sill Level of the Head Regulator for the Canal towards Nepal at Tanakpur Barrage

The Indian side informed that the detailed information on the Tanakpur Power House and the supply channel had been provided to the Nepalese side in accordance with the decision taken in the 1st meeting of the JCWR. According to the Treaty, India is required to provide 28.35 m³/sec. (1000 cusecs) of water during the wet season i.e. from 15th May to 15th October and 8.5 m³/sec (300 cusecs) during dry season i.e. 16th October to 14th May. In order to fulfill this commitment, the Indian side pointed out that the head regulator on the left afflux bund of Tanakpur barrage with sill level at EL 245 m (Sill already constructed before the treaty) was capable of diverting the committed water supplies with pond level at EL 246.7 m., which is always maintained (being the minimum level requirement) for the operation of the Tanakpur power house. The Nepalese side, however, contended that the sill level be lowered down to EL 241.5 m to match the sill level of head regulator on the right bank. After discussions, it was decided that a joint study including site inspection should be conducted to further study the issue and explore the possibility of finding a mutually acceptable solution and submit the joint report by January 2005. Based on the study a final decision be taken in the next meeting of JCWR. The Composition of the joint study team is attached in Annex IV.

1.4 Supply of Power from Tanakpur Power House

It was intimated by the Indian side that 70 million units of free power was being supplied to Nepal as per the provisions of the Treaty and every effort was being made to accommodate Nepal's seasonal requirement.

1.5 Tanakpur – Mahendra Nagar Link Road

It was informed by the Indian side that Consultants for preparation of the DPR for the project would soon be selected and would be in place by the end of the year 2004.

2. Comprehensive strategy for Flood management and control

In the Joint Press Statement issued on 12th September 2004, on the occasion of the visit of the Hon'ble Prime Minister of Nepal to India,

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the JCWR had been mandated to prepare a comprehensive strategy for flood management and control including measures that could be implemented in the short to medium term. In this connection, it was pointed out that the Standing Committee on Inundation Problems was already looking into preparation of the master plan for flood management. The "Approach Paper" prepared by the Indian side in this regard had been exchanged with the Nepalese side who had also communicated their observations and submitted their draft "Approach Paper". Recognizing the necessity for a comprehensive master plan for the flood management, the JCWR felt that in view of this year's floods both in India and Nepal, a short term strategy identifying the vulnerable areas along various rivers should be jointly worked out on priority. To undertake the above task, it was decided to set up a Joint Committee comprising 5-6 members from each side to identify the steps that could be taken by both sides to mitigate the devastation caused by the floods. It was decided that the said Committee should submit its report in 3 months, suggesting necessary remedial measures. The importance of afforestation in Siwalik regions of Nepal was also highlighted during the discussions.

The composition of the Joint Committee is given at Annex V.

3. Review of activities of various bilateral Committees

(i) Standing Committee on Inundation Problems (SCIP)

The outcome of the recently held 13th meeting of the Standing Committee on Inundation Problems at Kathmandu was informed to the JCWR. The Committee decided to meet every 6 months alternately in India and Nepal, to find technical solutions which are acceptable to both sides. The JCWR appreciated the work of SCIP in addressing the outstanding issues in a spirit of mutual cooperation.

(ii) India Nepal High Level Technical Committee (HLTC) on Inundation Problems

This Committee had been constituted in pursuance of the decision taken during the visit of the Hon'ble Prime Minister of Nepal to India during March 2002. The JCWR noted with satisfaction the positive progress made by the HLTC in resolving inundation problems in Banke (Nepal) /Shravasti (India) districts and hoped that the other issue relating to the Lotan Rasiawal Khurd embankment would also be

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sorted out in due course. A Joint Technical Team had already been set up by the HLTC to reconcile and revalidate the survey maps prepared by both the sides.

(iii) Committee on Flood Forecasting (CFF)

As a follow up of a decision taken at the 1st meeting of the JCWR, a Committee on Flood Forecasting (CFF) was constituted. As mandated by the JCWR, the Committee held 3 meetings and finalized the Flood Forecasting Master Plan. JCWR, while appreciating the work done by the CFF, endorsed the Master Plan prepared by it and also accepted its recommendation for designating the CFF as a Standing Committee with the existing composition. It was also agreed that the standing Committee would work for the implementation of the master plan.

(iv) Sub Committee on Embankment Construction (SCEC)

The JCWR was informed that SCEC which was constituted as a follow up of a decision taken at its 1st meeting was responsible for planning, design and construction of the embankments on rivers Lalbakeya, Bagmati, Kamla, and Khando. It was noted that the work on Lalbakeya and Bagmati was at an advanced stage on the Nepal side while in Bihar, the work on the Bagmati embankment was yet to pick up which needs to be expedited. The Committee was apprised of the need for finalization of DPRs in respect of embankment schemes for Kamla & Khando rivers simultaneously for Nepal and Bihar portions as soon as possible. The the construction of embankments on either side of the Indo – Nepal border will be taken up simultaneously duly taking into account the effects of embankment and jacketed flow of water on the existing structures along the rivers.

(v) Joint Committee on Kosi and Gandak Projects

The Joint Committee on Kosi and Gandak Projects was constituted as per the decision taken in the first meeting of the JCWR to look into the issues pertaining to the operation and maintenance of these projects. The Commissioner & Secretary, Water Resources Department, Government of Bihar informed that the next meeting of the Committee would be held in November 2004. The JCWR directed the Joint Committee to look into all pending issues.

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The Nepalese side raised the issue of under-generation from Gandak and Kosi HEPs due to poor maintenance of power canals. The Commissioner and Secretary, Water Resources Department, Govt. of Bihar informed that Gandak and Koshi HEP renovation is scheduled to be completed by November 2005 and July 2005 respectively.

The Nepalese side intimated the revised composition of the Committee of their side as given at Annex VI.

(vi) Power Exchange Committee (PEC)

- a. The Nepalese side stated that transmission line interconnections were required to be built to provide the infrastructure necessary for trading of power between Nepal and India. Three lines viz. (i) 132 KV Anandnagar – Butwal D/C line, (ii) 132 KV Birgunj – Motihari line and (iii) 132 KV Dhalkebar – Sitamarhi line had earlier been suggested in this regard. Works on Nepal side of Anandnagar – Butwal line had already been taken up and funds for the other two lines had also been tied up by the Nepalese side with the expectation that these lines would be used by India for power trading.

The Indian side stated that the suggested interconnections had already been discussed in the 7th PEC meeting held in March, 2003 where, in regard to Birgunj-Motihari and Dhalkebar-Sitamarhi lines, it had been indicated to the Nepalese side that these lines could be considered later – “at a time when sufficient power would be available for transfer on these lines”, citing the transmission constraints in evacuating power from the Eastern region to the Northern region in India (the possible buyer). Only the Anandnagar-Butwal line had been found to be a feasible link for import of power by India and all preparations for taking up the construction of this line on the Indian side had been completed – subject to finalization of the long-term commercial arrangement for sale of power from Nepal to India. The Nepalese side had indicated the quantum of saleable surplus power on long-term basis to PTC, the organization identified by Government of India as nodal agency to deal with trading of saleable power of Nepal. Based on this indication, PTC had, in right earnest, even signed an agreement with POWERGRID in December 2002 for construction of Indian portion of 132kV Anandnagar-Butwal line. The Indian side reiterated that a firm commitment for long-term sale of power was a pre-requisite (to

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identify buyers and tie-up a sound commercial agreement between PTC and NEA) before construction of this line by POWERGRID.

Both sides agreed that the above issue could be examined by the Technical Committee consisting of representatives from NEA, PTC, POWERGRID, CEA and HMG/Nepal, which had been constituted as per the decision taken in 7th meeting of PEC. The Technical Committee would give its findings before the next PEC meeting so that recommendations of the PEC could be considered in the next JCWR meeting.

- b. The Nepalese side requested that they were not in a position to absorb the power during wet season from Tanakpur point and they desired that the supply be made from other exchange points. The JCWR directed the Power Exchange Committee to look into the matter and come up with their recommendations by January 2005. Based on the recommendation, JCWR would take necessary action in its next meeting.

4. Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage cum Diversion Scheme

The JCWR expressed satisfaction at the setting up of the Joint Project Office in Nepal to take up field investigation and preparation of the Detailed Project Report on Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage cum Diversion Scheme. The Joint Committee on Water Resources hoped that the works for preparation of the Detailed project Report would be completed in the given time frame. It was decided that next meeting of the Joint Team of Experts should be held soon to review investigations already carried out and the progress of work.

5. Kamala and Bagmati Multipurpose Projects

The Indian side raised the issue of taking up of multipurpose projects on Kamla and Bagmati rivers as the same were important both for India and Nepal from the irrigation, power and flood control point of view. The Nepalese side pointed out that Kamla Multipurpose Project was part of the Sun Kosi diversion scheme. The Nepalese side pointed out the social and environmental problems in implementation of these projects due to the presence of large settlements in the reservoir areas. After discussion, it was agreed that the feasibility

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study of the Kamala and preliminary study of Bagmati Multipurpose Projects would also be carried out by the Joint Project Office of Sapta Kosi - Sun Koshi Projects to ascertain the likely constraints in implementation of these projects so that these could be appropriately addressed .

6. Identification & implementation of Hydro Power Projects (including Upper Karnali)

As a follow up of the decisions taken during the first meeting of Joint Committee on Water Resources, the Upper Karnali Hydro Electric Project had been identified by His Majesty's Government of Nepal for the development by an Indian agency under the Hydro Power Policy of Nepal. It was noted that the National Hydro Electric Power Cooperation of India (NHPC) is currently discussing this project with the Nepal Electricity Authority (NEA). The Joint Committee on Water Resources advised the NHPC and the NEA to hold further discussions on this project. As regards the Burhi Gandaki Hydro Electric Project, it was brought out that the Government of India had already agreed in principal to prepare the Detailed Project Report through an Indian agency. Both sides agreed that the Detailed Project Report of 600 MW Burhi Gandaki Hydro Electric Project would be prepared by India. An MOU would soon be signed by both the Governments to undertake this work.

7. Other issues

(i) Kosi Power Tariff

Pursuant to a decision of the last meeting of the Power Exchange Committee, this issue was submitted for the consideration of the JCWR.

The Indo-Nepal Sub Commission on Water Resources (formed by Indo-Nepal Joint Commission on Water Resources in 1988) had fixed tariff for Kosi Project power for the period 01.01.1988 to 31.12.1992 at a subsidized rate for supply of 10 MW of power. In February 1995, this facility of subsidized tariff was extended by Government of India to cover the period 01.01.1993 to 31.03.1995 with regard to 50% of the power generated. Subsequent to 01.04.1995, power generated from Kosi project and supplied from Kosi point was to be supplied at normal rate of power exchange. However, the Indian side requested for the revision of the tariff. The Nepalese side has

taken the stand that the subsidized rate of power supplied should be continued in view of the objective of providing relief to the residents of the area affected by the Kosi project.

Indian side clarified that in view of shortfall in generation from Kosi Project, power had actually been obtained from other sources for supply to Nepal. Continuance of this arrangement was not sustainable.

It was decided to constitute a joint group to analyse the issue under the Kosi Project Agreement together with the recording of Sub Commission on Water Resources held in 1988 and mandate it to submit its recommendations within 3 months for a decision at the next meeting of JCWR.

The Group will comprise the following members:

Indian side	Nepal side
<u>Shri V Ramakrishna, Chief Engineer, CEA</u>	Mr. L.M. Singh Bhandari, Joint Secretary, MOWR
Mr. S. Atique Ullah, Chief Engineer, BSEB	Mr. Rajendra K. Kshatri, Executive Director, WECS
Ms. Gaitri I. Kumar, Director (North), MEA	Mr. Dinesh Bhattarai, Joint Secretary, MOFA

(ii) Dhauli Ganga Hydro Electric Project in India

As already agreed during the first meeting of the Joint Committee on Water Resources, the Nepalese side requested for the details about the above project. The Indian side will provide the detail as soon as possible.

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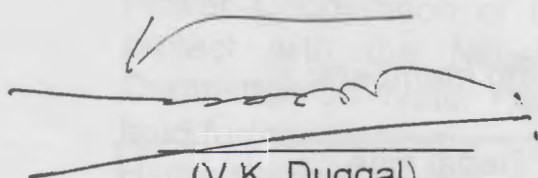
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(iii) Karnali Multipurpose Project

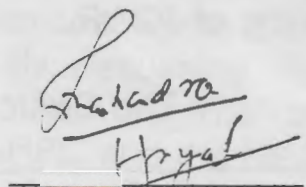
It was decided to initiate consultations in respect of development of the Karnali Multipurpose Project for which the Karnali Coordination Committee already exists.

The next meeting of the Committee will be held in Kathmandu in April 2005.

The meeting was held in a cordial atmosphere.



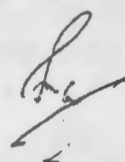
(V.K. Duggal)
Secretary
Ministry of Water Resources
Government of India



(M.N. Aryal)
Secretary
Ministry of Water Resources
HMG/Nepal



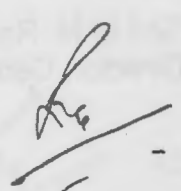
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LIST OF DELEGATES - INDIA

Members

1. Shri V.K. Duggal,
Secretary (WR),
Ministry of Water Resources
2. Shri R. Jeyaseelan,
Chairman, Central Water Commission,
New Delhi
3. Shri M.K. Sharma,
Member(RM),
Central Water Commission, New Delhi
4. Shri C.B. Vashista,
Chairman,
Ganga Flood Control Commission, Patna
5. Shri V.S. Verma,
Member (HE), Central Electricity Authority
6. Shri Yogendra Prasad,
CMD, National Hydroelectric Power Corporation,
Faridabad.
7. Shri P.K. Sinha,
Principal Secretary, Irrigation Department,
Government of Uttar Pradesh
8. Shri V. Jayashankar,
Commissioner & Secretary, Water Resources Department,
Government of Bihar
9. Shri S. Krishnan,
Principal Secretary,
Irrigation Department,
Government of Uttaranchal
10. Shri Ranjit Rae
Joint Secretary (Northern Region),
Ministry of External Affairs
11. Shri A.K. Kutty,
Joint Secretary (Hydro),
Ministry of Power



12. Shri V.P. Haran,
Charge d' Affairs,
Embassy of India
Kathmandu
13. Shri M.L. Goyal,
Commissioner (ER),
Ministry of Water Resources

Special Invitees

1. Shri S.P. Sen,
Executive Director, NHPC
2. Shri S.M. Dhiman,
Chief Engineer (HP&I), CEA
3. Shri S. Atique Ullah,
Chief Engineer (Com.).
Bihar State Electricity Board, Patna
4. Shri Anand Prakash,
Engineer-in- Chief, (Design & Planning),
Irrigation Deptt., Govt. U.P.
5. Shri T.K. Sinha,,
Chief Engineer, Planning & Monitoring,
Water Resources Deptt., Govt. of Bihar
6. Shri M.P. Bhartary,
Chief Engineer, Irrigation Deptt.,
Govt. of Uttaranchal
7. Ms. Gaitri I. Kumar,
Director (Northern Region)
Ministry of External Affairs
8. Shri Jawed Ashraf,
First Secretary (Commerce),
Embassy of India, Kathmandu
9. Shri Rakesh Kumar,
Vice President, Marketing,
Power Trading Corporation of India Ltd.
10. Shri A.K. Asthana,
Director, Central Electricity Authority
11. Shri M.M. Rawal
Director, Central Electricity Authority

LIST OF DELEGATES - NEPAL

Delegation Members

1. Mr. Mahendra Nath Aryal,
Secretary, Ministry of Water Resources,
2. Mr. Lekh Man Singh Bhandari,
Joint Secretary, Ministry of Water Resources,
3. Mr. Sharada Prasad Sharma,
Executive Director, Water & Energy Commission
Secretariat (WECS)
4. Mr. Rajendra Kishore Kshatri,
Executive Director, WECS
5. Mr. Jitendra Ghimire,
Director General, Department of Irrigation,
6. Mr. Shital Babu Regmee,
Director General,
Department of Water Induced Disaster Prevention (DWIDP),
7. Mr. Arjun Prasad Shrestha,
Director General,
Department of Electricity Development (DOED),
8. Dr. Janak Lal Karmacharya,
Managing Director,
Nepal Electricity Authority,
9. Mr. Dinesh Bhattarai,
Joint Secretary,
Ministry of Foreign Affairs,
10. Dr. Keshav Sharma,
Senior Divisional Hydrologist,
Department of Hydrology and Metrology

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Special Invitees

1. Mr. Ajaya Kumar Pokhrel,
Superintending Engineer, DIO
HMG, Nepal
2. Mr. Shiv Kumar Sharma,
Senior Divisional Engineer, DWIDP
HMG, Nepal

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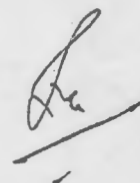
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Agenda for the 2nd MEETING OF THE JOINT COMMITTEE ON WATER RESOURCES (JCWR), NEW DELHI, OCTOBER 7 & 8, 2004.

1. Mahakali Treaty including implementation of Pancheshwar Multipurpose Project.
2. Comprehensive strategy for flood management and control
3. Review of activities of various bilateral committees
 - (i) Standing Committee on Inundation problems
 - (ii) India Nepal High Level Technical Committee on Inundation Problems
 - (iii) Committee on Flood Forecasting
 - (iv) Sub-Committee on Embankment Construction
 - (v) Joint Committee on Kosi and Gandak Projects
 - (vi) Power Exchange Committee
4. Sapta Kosi High Dam Multipurpose Project and Sun Kosi Storage cum Diversion Scheme
5. Kamla and Bagmati Multipurpose Projects:
6. Identification & implementation of Hydro Power Projects (including Upper Karnali)
7. Other issues:
 - (i) Kosi Power Tariff
 - (ii) Dhauli Ganga Hydro Electric Project in India
 - (iii) Karnali Multipurpose Project

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Composition of the Study Team on Tanakpur Sill Level

Indian Side:

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| 1. | General Manager
Tanakpur HE Project, NHPC | Team Leader |
| 2. | Chief Engineer, Design,
NHPC | Member |
| 3. | Director (HP&I)
Central Electricity Authority | Member |

Nepalese Side

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|----|---|-------------|
| 1. | Mr. Ajay Kumar Pokhrel,
Deputy Director General, DOI | Team Leader |
| 2. | Mr. Bhuwan Ojha,
Regional Director, Far Western Irrigation Directorate | Member |
| 3. | Dr. Umesh Nath Parajuli,
Senior Divisional Engineer, DOI | Member |

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Composition of the Joint Committee for Comprehensive Strategy for Flood Management and Control

Indian side

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|----|--|---|------------------|
| 1. | Member,
Ganga Flood Control Commission | - | Leader |
| 2. | Representative,
Water Resources Department, Govt. of U.P., | - | Member |
| 3. | Representative,
Water Resources Department, Govt. of Bihar. | - | Member |
| 4. | Representative,
I & W Dte., West Bengal (NBFCC) | - | Member |
| 5. | Representative,
Ministry of Water Resources, Govt. of India | - | Member |
| 6. | Director,
Ganga Flood Control Commission | - | Member Secretary |

Nepalese Side

- | | | | |
|----|--|---|------------------|
| 1. | Deputy Director General,
Department of Water Induced Disaster Prevention - | - | Leader |
| 2. | Senior Hydrologist,
Department of Hydrology and Meteorology | - | Member |
| 3. | Senior Divisional Engineer,
Water and Energy Commission Secretariat | - | Member |
| 4. | Senior Divisional Engineer,
Department of Irrigation | - | Member |
| 5. | Senior Divisional Engineer,
Department of Water Induced Disaster Prevention - | - | Member Secretary |

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Revised Composition of Co-ordination Committee on Koshi and Gandak Projects (Nepalese Side)

1. Director General,
Department of Irrigation Chairman
2. Deputy Director General, Planning,
Department of Irrigation Member
3. Regional Director,
Eastern Regional Irrigation Directorate, Biratnagar Member
4. Regional Director,
Western Regional Irrigation Directorate, Pokhara Member
5. Representative,
Ministry of Foreign Affairs Member
6. Representative,
Ministry of Water Resources Member
7. Representative,
Water and Energy Commission Secretariat Member

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