

**MINUTES OF THE THIRTEENTH MEETING OF NEPAL-INDIA JOINT COMMITTEE
ON INUNDATION AND FLOOD MANAGEMENT (JCIFM)**

(May 27th -31th, 2019)

The thirteenth meeting of Nepal-India Joint Committee on Inundation and Flood Management (JCIFM) was held from **May 27-31, 2019**. The Nepali delegation was led by Ms. Sarita Dawadi, Director General of the Department of Water Resources and Irrigation (DoWRI), Government of Nepal and the Indian delegation was led by Shri Chandra Kumar Lal Das, Member (Co-ordination), Ganga Flood Control Commission (GFCC), Government of India. The meeting of the Committee held in Kathmandu on May 31, 2019 was preceded by Joint Field visits to the Khando, West Rapti and Banganga rivers from May 27-30, 2019. The list of participants of the meeting from both sides and details of Contact officers are given at Annexure-I, Annexure-II and Annexure-III.

The Team Leader of the Nepali delegation welcomed the Indian delegation in Tilathi, Saptari District on May 27, 2019 and in Kathmandu on May 31, 2019 and highlighted on the benefits gained from the completed River Training Projects viz. Kamala, Bagmati and Lal Bakaiya. She stated that, in addition of socio-economic benefits, it facilitated easy connectivity to the people inhabiting adjacent to embankments, right from the East-West highway of Nepal to Indo-Nepal border in all three rivers. The construction of permanent house structures behind the embankments in Kamala, Lal Bakeya and Bagmati river training project are the symbol of confidence created by this project.

She expressed satisfaction over the successful completion of the construction of Extension of Embankment and protection work in Bagmati, Lal Bakaiya and Kamala Rivers, and thanked the Government of India for their cooperation.

Quoting the decision made in last 6th JSTC meeting held in New Delhi, she thanked Government of India for taking up KHANDO, WEST RAPTI BANGANGA, River Training Projects for construction of Extension of Embankments along with its required essential protection structures under the Grant of Government of India from Indo-Nepal border to East-West highway of Nepal. She hoped the same confidence, as in previous three projects, would be created in newly taken three projects. The construction of Extension of Embankment in all projects enhanced the connectivity of Nepali people and Indian people too which strengthen additionally our innumerable years old bonding of people of both the countries.

In the opening remarks, Shri Chandra Kumar Lal Das, Team Leader of Indian side, expressed deep gratitude for the warm reception during the visit to Nepal. He expressed satisfaction that the work started in 2008 on the three rivers viz.



Kamala, Bagmati and Lalbakaya was completed with the assistance of Government of India as reported by the Nepali side. He further stated the need to submit the completion certificates for works as well as Utilization Certificates of the funds assisted by Government of India in the prescribed proforma in respect of aforesaid projects. Thereafter, Government of Nepal may take complete charge of the aforesaid three rivers and conduct regular necessary maintenance to preclude the breaches in embankments & consequent damages. Government of India is ready to consider capacity building by training the concerned officials in regular maintenance of the above mentioned completed projects.

He further stated that the Sub-Groups were constituted in pursuance of the decision taken during the meeting of 12th JCIFM to address the issues related to flood management and inundation. The Sub-Groups had already carried out two joint inspections along Indo-Nepal border in the month of June & November, 2018. He added that the reports submitted by the Sub-Groups were required to be reviewed in the light of newly introduced river training works on Khando, Banganga & West Rapti rivers of Nepal portion.

The meeting of the 13th JCIFM in Kathmandu on 31st May, 2019 was preceded by joint field visits during May 27-30, 2019 to have preliminary assessment of the works to be taken up for river training along Khando, Banganga, and West Rapti rivers.

A) NEWLY TAKEN WORKS AND PROPOSED WORKS

A-I Khando River

The sites of Khando River were jointly visited on 27th May, 2019 starting from TILATHI bridge (Under Construction on Indo-Nepal Border) to East-West Highway by the members of 13th JCIFM. The sites visited were as follows:

- Tilathi near No Man's Land.
- Sakharpura (Left Bank)
- Lonia (Right Bank) and Bhelhi (Left Bank)
- Khando Syphon of Western Main Canal near Mushaharniya Village
- Deuri Bharuwa (Right Bank)
- Pakari (Left Bank) and
- Pauwaan (Right Bank) and Tirhauta (Left Bank).



Based on assessment of the site conditions, the following Emergent Works on Khando river were recommended by the committee:

- **Lonia (Right Bank) and Bhelhi(Left Bank)** : Providing Flood Protection Work with boulder Pitching on river side slope with launching apron wherever needed in the length of about 600m.
- **Pakari (Left Bank)**: Three rows RCC Porcupine with deflector in left bank in the length of about 100m.

Apart from the above-mentioned Emergent Works, the Committee observed that Embankments had not been fully constructed upto East-West Highway, Nepal and it was recommended that a Comprehensive DPR for the remaining works was needed to be prepared. It was also recommended that a digitized map showing current status of works already carried out and the new proposed works was needed to be prepared.

A-II Banganga River

The sites of Banganga River were jointly visited on 29th May, 2019, starting from Banganga Barrage in India to the East-West Highway, Nepal by the members of 13th JCIFM. The sites visited were as follows:

- Khoriya (Left Bank)
- Kajahawa Hardauna Village (Right Bank)
- Ramghat (Left and Right Banks)

Following Emergent Works on Banganga river were recommended by the committee:

- **Khoriya (Left Bank)**: Restoration of Bank Protection Work in the left Bank including Construction of Edge Revetment in a loop form.

Apart from the above-mentioned Emergent Works, the Committee observed that Embankments had not been fully constructed upto East-West Highway, Nepal and it was recommended that a Comprehensive DPR for the remaining works was needed to be prepared. It was also recommended that a digitized map showing current status of works already carried out and the new proposed works was needed to be prepared.

A-III West Rapti River

The sites of West Rapti were jointly visited on 30th May, 2019 starting from West Rapti Barrage at Laxmanpur, India to East-West Highway, Nepal by the members of 13th JCIFM. The sites visited were as follows:

- Piparahawa village (Confluence point of Dunduwa Nala and West Rapti river);
- Bajbajhawa Nala culvert on Kalkalwa Bund
- Junction Point of Proposed West Rapti (Right Embankment) with Kalkalwa bund



- Bhoj Bhagwanpur(Left Bank) and
- Embankment under Construction near Bishambharpur.

Following Emergent Works on West Rapti river were recommended by the committee:

- **Bhoj- Bhagwanpur (Left Bank), Narainapur:** Laying three rows of RCC porcupine about 600 m.
- **Joraiya (Left Bank), Rapti Sonari:** Laying three rows of RCC porcupine about 600 m.

The Committee observed that Embankments had not been fully constructed up to East-West Highway and it was recommended that a Comprehensive DPR for the remaining works was needed to be prepared. It was also recommended that a digitized map showing current status of works already carried out and the new proposed works was needed to be prepared.

The committee recommended that the comprehensive DPRs may be prepared for the above three rivers within six months.

B) OLD WORKS AND RELEASE OF FUNDS FOR BAGMATI, LAL BAKAIYA and KAMALA RIVERS:

The Nepali side informed that all the River Training Works on BAGMATI, LAL BAKAIYA and KAMALA, previously endorsed under various meetings of JCIFM had been completed. Funds for all these works had been released by the Government of India except the following:

1. Emergent Works carried out before 2016 Flood in the three rivers i.e. KAMALA, BAGMATI and LAL BAKAIYA amounting to NRs. 21.944 crores,
2. Second Instalment of seven work packages on Kamala river endorsed by Ninth JCIFM amounting to NRs. 4.06 crores and
3. Emergent Works of 2017 on Bagmati River, left bank near Badharwa amounting to NRs. 0.953 crore.

For the above 1st and 2nd, Indian side informed that Funds would be released soon and for 3rd, it was informed that work had been completed and all the relevant documents had been submitted to the GFCC. Considering the same, the Committee recommended for the release of NRs. 0.953 crore.

The Indian side also requested to submit Utilization Certificates in respect of following releases:

Sl. No.	Released Item & Date of Release	Amount (NRs. in Cr.)
1	2 nd instalment of 11 th JCIFM (27.03.2018)	18.074
2	12 th JCIFM emergent work (05.10.2018)	16.760
Total		34.834

C) FLOOD INUNDATION ISSUES

The Committee took note of the two reports submitted by the Sub-group of JCIFM related to Inundation Issues along the India-Nepal border. The Nepali side requested the Indian side to share the status of implementation of the joint report/work plan submitted by the sub-group of the JCIFM.

The committee was briefed on the initiatives taken on the following issues:

C-I KHANDO RIVER (TILATHI, NEPAL and KUNAULI, INDIA):

The Committee suggested to confirm the demarcation of old course of Khando river from Indo-Nepal border to its confluence with Bhaluwahi river and to carry out joint survey for assessment of land to be acquired for construction of Embankment along the old course. The Committee also suggested mathematical modeling to assess the adoptability of old course and other alternatives to address the issue. Necessary data for carrying out the mathematical modeling to be provided by joint team comprising concerned contact officers.

C-II KAMLA RIVER (INERWA, NEPAL and JAYNAGAR, INDIA):

The Indian side informed that the tender for this work has been awarded and it is held up due to land acquisition issue. However, sincere efforts are being made in this regard to resolve this issue.

C-III CONFLUENCE OF MAINABATI and GAGAN RIVER, LANGDI GOTH, SIRAHA MUNICIPALITY WARD NUMBER-21, NEPAL:

It was confirmed by the Indian side that the bridge under construction would be sufficient to pass the river discharge and there would be no inundation issue in the Nepali territory. Hence the matter may be dropped.




C-IV RATO RIVER (JALESHWOR, NEPAL and BHITTAMORE, INDIA):

The Indian side informed that the tender for this work had been awarded and it was held up due to land acquisition issue. However, sincere efforts are being made in this regard to resolve this issue.

The Nepali side reiterated that AFS at appropriate location to be provided while tagging the Embankment.

C-V LAKHANDEHI RIVER (PAKARI-BARA-UDHORAN, NEPAL and MUDAHA, INDIA):

The Indian side informed that the estimate for the additional identified points had been prepared and the same is under the process of approval.

C-VI RIGHT EMBANKMENT OF LAL BAKEYA RIVER:

The Indian side suggested the Government of Nepal to consider the following alternate proposals;

- Widening of existing 6 vents AFS in Nepal portion.
- Deepening of natural channels from existing AFS to its confluence with LAL BAKEYA river to allow more water to drain out.

The Nepali side stated that they will examine the above alternate proposal recommended by the Indian side.

C-VII CONNECTION OF RIGHT EMBANKMENT OF BAGMATI RIVER (Bairganiya Ring Bund):

The Indian side informed that the DPR preparation for the project is underway and will be completed within six months.

The Nepali side requested to Indian side to expedite the process in order to address long pending issue.

C-VIII CROSS-DRAINAGE STRUCTURE ALONG WESTERN GANDAK CANAL (WGC) AT 5.85 RD, 16 RD and 24 RD (Ratanpura, Nawalparasi, Nepal):



The Indian side informed that the estimate for the works suggested by the Sub-group had been prepared and the same is under the process of approval. However, routine cleaning of CD works are being done by WRD, GoB.

Regarding anti-erosion work at Ratanpura Village, it was informed that the proposed work will be considered during forthcoming visit of GHLSC.

C-IX KHAJURA KHOLA (HARSAPUR, NEPAL-LAXMIPUR KALA, INDIA) and JHARAHI KHOLA (GANESHPUR, NEPAL-THUTIBARI, INDIA):

The Indian side informed that the survey work is under progress and the project would be submitted for approval within current FY.

C-X BAJHASAGAR RESERVOIR (Tulsidihwa & Purnihawa, Nepal - Bajaha & Ramnagar, India):

The issue has been resolved and may be dropped.

C-XI MAHALISAGAR RESERVOIR (Rangpur & Bhagwanpur, Nepal - Mahali & Karhayia, India):

It was informed that the joint Survey had been carried out recently and the report would be submitted to both the Team Leaders within two months.

C-XII Existing Opening for Bajbajwa Nala on Kalkalwa Bund:

The Indian side informed that the estimate of Channelization of Bajbajwa Nala had been prepared and the same is under the process of approval within current FY.

C-XIII Khotila landslide in Mahakali river at Darchula:

The Indian Side shared the Technical Report on this issue. Certain short term, Medium Term and Long Term works have been identified. The Indian side further informed that short term works will be started soon.

The Nepali side thanked the India side for sharing the report and informed that they will revert with their comments after studying the report. Nepali side further requested for providing updated status of works carried out at site of landslide.



C-XIV Embankment on Mechi River

It was decided in the 12th JCIFM meeting that "a comprehensive DPR related to embankment on Mechi river was required to be prepared jointly by India and Nepal. For this the exchange of views between contact officers of India (West Bengal and Bihar) and Nepal was considered necessary. The contact officer from Nepal side shall be the Nodal officer for convening the meeting and joint inspection as per need etc. This work needs to be taken up at the earliest and a common comprehensive DPR needs to be submitted to GFCC for technical examination."

The Committee directed all the concerned contact officers especially Contact officer from Nepali side to take initiative and compile the report and submit to GFCC, Patna at the earliest.

C-XV Mahakali River Erosion at Bhujela Village, Kanchanpur

The Committee directed the concerned authority of Government of India to execute the decision of JSTC within current FY.

D) FLOOD FORECASTING ISSUE

JSTC in its 6th Meeting during January 2019 constituted a Joint Team with three Members each from India and Nepal to review and update the FF Network proposed by the Task Force during 2011 including expansion and modernization and proposed a mechanism for mutual sharing of Hydro-meteorological data in India and Nepal.

The meeting of the Joint Team was proposed to be held during 21-22 May, 2019 with the consent of both sides. However, the same could not be held due to administrative reasons. The Indian side now proposed the new dates for the meeting on 17-18 July or 24-25 July, 2019. The Nepali side expressed difficulty in holding the meeting in July, 2019 due to fiscal year ending in Nepal. They proposed the meeting during second or third week of August 2019. The final date will be proposed by the Indian side through Diplomatic Channel.

E) CONCURRENT EVALUATION OF THE ON-GOING PROJECTS

Since the work had been completed as reported by the Nepali side, the Indian side proposed that the issue may be dropped. The Committee agreed to drop the issue.

F) RECOVERY OF MOBILIZATION ADVANCE GIVEN TO CONTRACTORS FOR THE WORKS OF C & D PACKAGES OF BAGMATI RIVER EMBANKMENT

As discussed in the previous meeting of JCIFM, the Nepali side informed the Committee that they are taking necessary actions to recover the mobilization



advance given to the contractors for the works of earlier C & D packages of Bagmati River embankment. The issue is currently sub-judice. The Indian side expressed its concern and requested to expedite the matter.

G) ANY OTHER ITEMS

Inundation issue due to on-going construction of roads and other structures along India-Nepal Border:

Considering the gravity of the issue, Nepali side was requested to take up the matter with Government of India through diplomatic channel.

The meeting was held in a cordial and friendly atmosphere.

Signed on May 31st, 2019 at Kathmandu.


31st May, 2019
(Sarita Dawadi)

Team Leader/ Director General
Department of Water Resources and
Irrigation (DWRI), Kathmandu


31-05-2019
(Chandra Kumar Lal Das)

Team Leader/Member (Co-ordination)
Ganga Flood Control Commission
(GFCC), Patna

13th MEETING OF JCIFM (27 to 31 May, 2019)

LIST OF PARTICIPANTS

INDIAN SIDE:

- | | |
|--|--------------|
| 1. Mr. C.K.L. Das, Member (C), GFCC, Patna | -Team Leader |
| 2. Mr. A. K. Nayak, Chief Engineer, LBGO, CWC, Patna | -Member |
| 3. Mr. Rakesh Toteja, Sr. Joint Commissioner, MoWR, RD & GR | -Member |
| 4. Mr. Ajay Kumar, Director, GFCC, Patna - Member Secretary | |
| 5. Mr. Bipin Kumar, SE, WRD,GoB, Patna | -Member |
| 6. Mr. Devesh Shukla, SE, I&WRD, GoUP | -Member |
| 7. Mr. Kapidhwaja Pratap Singh, SS, Embassy of India, Kathmandu Nepal | -Member |
| 8. Mr. Ashok Kumar Patro, Deputy Secretary (Finance), MoWR, RD & GR, New Delhi | -Member |

Invitees:

9. Mr. Sanjay Kumar, Deputy Director, GFCC, Patna
10. Mr Kanishk Sharma, Under Secretary (Finance), MEA, New Delhi
11. Mr. W. G. Raynalimpa, Embassy of India, Kathmandu Nepal.



13th MEETING OF JCIFM (27 to 31 May, 2019)

LIST OF PARTICIPANTS (NEPALI SIDE):

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|---|-------------------|
| 1. Ms. Sarita Dawadi, Director General, DWRI, Kathmandu | -Team Leader |
| 2. Mr.Pradeep Thapa, Deputy Director General, DWRI | -Member Secretary |
| 3. Mr. Krishna Belbase, Deputy Director General, DWRI | -Member |
| 4. Mr.Bikram Shrestha Juwa, DHM, Kathmandu | -Member |
| 5. Ms.Rita Dhital, Under Secretary, MoFA, Kathmandu | -Member |
| 6. Dr.Kishor Bhattarai, SDE, DWRI, Kathmandu | -Member |
| 7. Dr.Krishna Raj Pathak, SDE, DWRI, Kathmandu | -Member |
| 8. Mr.Dinakar Khanal, SDE, WECS, Kathmandu | -Member |
| 9. Mr.Binay Poudel, SDE, MoEWRI, Kathmandu | -Member |

INVITEES:

1. Mr.Shishir Koirala,Deputy Director General, DWRI,Kathmandu
2. Mr.Mohan Shakya, Project manager, NRMP, Chitwan district
3. Mr.Mekhnath Sharma, Office Chief, PEP Field Office No.-1, Jhapa district.
4. Mr.Bishnu Deo Yadav, Project manager, KRTP and TRTP, Saptari district.
5. Mr.Manohar Shah , Project manager, KRTP, Dhanusha district.
6. Mr.Anand Dhami, Office Chief, PEP Field Office No.-3, Sarlahi district.
7. Mr.Himalaya Poudel, PEP Field Office No.-6, Dang
8. Mr.Prachanda Dev Bist, PEP Field Office No.-7,Kanchanpur
9. Mr. Arvind Kumar Gupta, Water Resources Expert, Individual Consultant, DWRI.
- 10.Mr. Ranjan Raj Bhattarai, Engineer, DWRI
- 11.Mr. Mukesh Pathak, Engineer, DWRI
- 12.Mr. Subash Baniya, Engineer, DWRI.
- 13.Mr. Bharat Prasad Sapkota, PEP Field Office No.-5,Butwal

Annexure-III

S. N.	Issue	Details of Indian Contact Officer	Details of Nepalese Contact Officer
1	Banganga River Training Project, Mahali Sagar, BAJHASAGAR RESERVOIR (Tulsidihwa & Purnihawa, Nepal - Bajaha & Ramnagar, India) and Existing Opening for Bajbajwa Nala on Kalkalwa Bund	Executive Engineer, Drainage Division, Irrigation Department, Government of Uttar Pradesh, Siddharthanagar Shri Raj Kiran Nehra, Contact No: 0091-7906993918 Email: eeddsdr1990@gmail.com	Senior Divisional Engineer, PEP-5, Butwal, Nepal Mr. Ramesh Poudel Contact No: 00977-9857059763
2	Lal Bakeya River	Executive Engineer, Drainage Division, Motihari Water Resources Department, Government of Bihar Mr. Ranbir Prasad Contact No: 0091-7463889659; 9279144708	Senior Divisional Engineer, Bagmati and Lal Bakeya RTP, Parwanipur, Nepal Mr. Rajkumar Shrivastav Contact No: 00977-9852671278
3	Bairaganiya Ring Bund; Bagmati	Executive Engineer, Bagmati Division, Sitamarhi WRD, Government of Bihar Mr. Vishambhar Kumar Chaturvedi Contact No: 0091-9430511078, 7463889925	Senior Divisional Engineer, Bagmati and Lal Bakeya RTP, Parwanipur, Nepal Mr. Rajkumar Shrivastav Contact No: 00977-9852671278
4	Rato River	Executive Engineer, Bagmati Division, Sitamarhi WRD, Government of Bihar Mr. Vishambhar Kumar Chaturvedi Contact No: 0091-9430511078, 7463889925	Senior Divisional Engineer, People's Embankment Field Office No. 2, Mahottari, Nepal Mr. Bhilanand Yadav Contact No: 00977-9858024641

4	Lakhandehi River (PAKARI-BARA- UDHORAN, NEPAL and MUDAHA, INDIA)	Executive Engineer, Drainage Division, Sitamarhi Water Resources Department, Government of Bihar Mr. Shabbir Contact No: 0091- 746388934	Senior Divisional Engineer, PEP Field Office No. 3, Sarlahi, Nepal Mr. Anand Dhami Contact No: 00977- 9855072682
5	Mechi River	West Bengal: To be confirmed Bihar: Executive Engineer, Drainage and Investigation Division, Kishanganj Water Resources Department, Government of Bihar Mr. R.P Gaud Contact No: 0091- 7463889229; 8986434850	Senior Divisional Engineer, PEP Office No. 1, Sarlahi, Nepal Mr. Mekhnath Sharma Contact No: 00977- 9855058916
6	Khando River	Executive Engineer, Western Embankment Division, Nirmali, Water Resources Department, Government of Bihar Shri Arun Kumar, Contact No: 0091- 7463889437, 9473429891	Project Chief; Senior Divisional Engineer, Khando River Training Project, Saptari, Nepal Mr. Bishnudev Yadav [Contact No: 00977- 9852822228, 00977- 9841405675]
7	West Rapti River	Executive Engineer, Saryu Canal Division-1, Irrigation Department, Government of Uttar Pradesh Bahraich [Shri Ashok Kumar, Contact No: 0091-9838768356, Email: snk1.brh@gmail.com	Senior Divisional Engineer, PEP Field Office No. 6, Lamahi, Dang, Nepal Mr. Himalaya Poudel Contact No: 9857841609

8	Mahakali River, D/S of Sharda Barrage and Mahakali River Erosion at Bhujela Village, Kanchanpur	Executive Engineer, Head Works Division, Water Resources Department, Bareilly, U.P. Mr. Pramod Kumar Contact No: 0091-9412024694 Email:hwdbly@gmail.com	Project Chief; Senior Divisional Engineer, Mahendranagar, Kanchanpur., Nepal Mr. Prachand Dev Bist Contact No: 00977-98558425601; 9848734504
9	Mahakali River/U/S of Sharda Barrage and KHOTILA LANDSLIDE at Darchula.	To be confirmed by GFCC.	Project Chief; Senior Divisional Engineer, Darchula, Nepal Mr. Mitra Baral Contact No: 00977-9851230033; 9841520693
10	Kamla River/CONFLUENCE OF MAINABATI and GAGAN RIVER, LANGDI GOTH, SIRAHA MUNICIPALITY WARD NUMBER-21, NEPAL	EE, Flood Control Division No.-2, Jhanjhaarpur WRD, GoB Mr. Shyam Kumar Yadav Contact No: 0091-7463889840; 8986272678 Email:floodcontroldiv2jpp@gmail.com	Project Chief; Senior Divisional Engineer, Janakpur, Dhanusha., Nepal Mr. Manohar Kumar Shah Contact No: 00977-9851173184; 9844020184
11	CROSS-DRAINAGE STRUCTURE ALONG WESTERN GANDAK CANAL (WGC) AT 5.85 RD, 16 RD and 24 RD (Ratanpura, Nawalparasi, Nepal) and KHAJURA KHOLA (HARSAPUR, NEPAL- LAXMIPUR KALA, INDIA) and JHARAH KHOLA (GANESHPUR, NEPAL-THUTIBARI, INDIA)	EE, Headworks Division, Balmikinagar, WRD, GoB. Mr. Jamil Ahmad Contact No: 0091-7463889679; 9473287256 Email:	Project Chief; Senior Divisional Engineer, Semari, Nawalparasi, Nepal Mr. Tika Ram Baral Contact No: 00977-9851113146


