

**THE FIRST MEETING OF NEPAL-INDIA JOINT COMMITTEE ON
INUNDATION AND FLOOD MANAGEMENT [JCIFM]
(30TH June – 5TH July, 2009)**

The Nepalese delegation of the Nepal-India Joint Committee on Inundation and Flood Management reached Jayanagar, India on the 30th of June, 2009 where they were joined by the Indian delegation. The Nepalese Team Leader welcomed the Indian Team Leader and other members of the delegation. The Indian delegation was led by Mr. M. U. Ghani, Member, Ganga Flood Control Commission (GFCC) and the Nepalese delegation was led by Mr. M. B. Gurung, Director General of the Department of Water Induced Disaster Prevention (DWIDP).

The Joint Committee carried out a joint field visit to the completed, ongoing and proposed embankment and flood protection works in Kamala, Bagmati and Lalbakeya rivers.

A) FIELD VISIT

A-I Lalbakeya River

The field visit to Lalbakeya was conducted on 3rd July, 2009. The Joint Committee inspected the embankment works along the right bank at Pokhariya. It was noted that the total length of embankment to be constructed was for a length of 5.4 km along each bank out of which embankment for a length of 3.8 km has been constructed. The grass sods and protection works have not started as yet. The constructed embankment section was observed to be satisfactory. The Joint Committee inspected the left bank at Fatuwa-Maheshpur. It was noted that embankment length of 1.2 km had been constructed and appeared to be satisfactory. However, the grass sods work has not started and protection work has just started. It was informed by site engineers that boulder stacking and GI wire crate weaving for the 6 studs to be constructed at Tikuliya has been going on but the construction of sluices has not started as yet. The Joint Committee instructed that the construction of embankment and six studs at Tikuliya be completed as soon as possible although it may be difficult as the monsoon has started.

A-II Bagmati River

The field visit of Bagmati embankment works was undertaken on 2nd of July, 2009. The Joint Committee inspected the embankment work along the left bank of the river at Mahinathpur. The construction of embankment appeared to be satisfactory. However, large rain cuts could be observed at a number of places. An irrigation inlet structure was incomplete and protection works such as revetment and spur construction were yet to be started except at chainage 10+670 and 10+940. The Joint Committee realized that this may pose as a





danger to the already constructed embankment and instructed that the embankment be repaired by filling the rain cuts and protection works be initiated at the earliest if possible.

A-III Kamala River

The field visit of Kamala river was undertaken on 30th June - 1st July, 2009. The right side embankment was inspected at Malhaniya. The constructed embankment appeared to be satisfactory. However, the Anti flood sluice (AFS) structure construction was not started as yet. So it is likely that flood water of Kamala river may enter into the country side and damage the human habitations in that area. The Joint Committee instructed that the incomplete structure opening be blocked adequately by sand bags and earth filling. Studs construction at this site had not been completed as yet and those studs that were completed were not properly tagged with the embankment giving way to possible outflanking of the studs by flood water and damaging the already constructed embankment. The Joint Committee instructed that the studs be properly tagged to the embankment and proper boulder pitching be provided at these locations where the studs join the embankment .

The left side embankment was inspected at Chatari, Nirdhana and Bhediya on July 1st, 2009. The downstream part of the embankment at Chatari had not been completed as yet and only launching apron portion of the studs were complete. The Joint Committee instructed that all the remaining works be completed with proper attention to tagging studs with the embankment to prevent their outflanking.

During inspection of works at Nirdana, it was found that the embankment section was complete. However, most of the old studs existing in that area were not properly tagged with the embankment posing serious danger of outflanking. The Joint Committee instructed that these studs be properly tagged with the embankment by earthen section. It was informed that sufficient quantity of earth work was saved in old embankment running contract. The Joint Committee decided that the left over quantity may be utilized upstream of the Nirdana village for the extension of the embankment. The Joint Committee then inspected the works at Bhediya. The embankment section was found complete. Grass sods works have not been carried out. Old studs were not properly tagged with the embankment. The Joint Committee instructed that the works be completed soon and the studs be properly tagged with the embankment for its safety.

The deficiencies in quality pointed out during the 12th meeting of SCEC were observed to be rectified. It was noted that embankment slope be checked and brought to design section before making final payment of all the work packages.

The embankments have not been constructed in-continuation. There are large gaps in between the constructed embankments.

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Therefore, the committee observed that the work should be taken up in continuation from the Nepal-India border towards upstream. The gaps should be closed as early as possible.

A detailed physical and financial progress for the works carried out in respect of all rivers have been provided in ANNEX - II A, IIB, and IIC

Joint Committee meeting at Kathmandu

The Joint Committee meeting took place at Kathmandu from 4th to 5th July, 2009. The list of participants in the meeting is at ANNEX-I

Decisions of the Joint Committee on Inundation & Flood Management (JCIFM)

EXTENSION OF EMBANKMENTS

B) ONGOING WORKS

B-I Ongoing Embankment work along Bagmati River

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The estimated cost of protection works in packages C and D approved in the 12th meeting of SCEC was NRs. 20.56 crore excluding VAT. These works had been divided into 14 work packages for contract and 4 packages were given to the local user groups. Out of these 18 work packages, 15 packages including 4 packages given to user groups were approved in the 12th meeting of SCEC for which the GOI contribution was NRs. 16.327 crore. 50% of this amount i.e. 8.163 crore, has already been released as decided in the 12th meeting of SCEC. 2

The remaining 3 work packages to be tendered could not be approved in the 12th meeting of SCEC as the contracts were re-tendered at that time. Furthermore, in the same meeting, SCEC decided to invite tender for the remaining part of about 1,100 m on the right bank of Bagmati after survey and detailed examination by the Nepalese side. The re-tendering process for the 3 remaining work packages and the tendering for about 1,100 m on the right bank were approved by competent authority of Government of Nepal as per Financial Regulations of Government of Nepal. The total tender amount for these 4 work packages excluding VAT is NRs. 4.87 crore. The Joint Committee decided to endorse the tenders for which the GOI contribution including contingencies is NRs. 4.87 crore. The committee endorsed the recommendation made by GFCC for release of 50% of this amount i.e. NRs. 2.43 crore. In addition, the discrepancy amount of NRs. 0.2984 crore carried over from the 12th meeting of SCEC is also recommended for release. The details of the discrepancy is given at ANNEX-III.

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B-II Ongoing works along Kamala river

The estimated cost of works to be completed before flood of 2009 was NRs. 16.042 crore inclusive of contingencies but excluding VAT as approved by GoN. These works along with the tenders were also approved by the 12th meeting of SCEC.

The tender cost for these works was NRs. 14.28 crore and including contingencies was NRs. 14.95 crore. The 4 work packages given to the concerned user groups was estimated to be NRs. 0.937 crore excluding VAT. It was recommended to release 50% of these amount i.e. NRs. 7.941 crore which has been already released.

The balance payment was to be made on receipt of utilization of 75% of funds released and inspection of works by the committee.

The utilization certificate has been submitted and the Committee inspected the works on 30th June – 1st July 2009. It is recommended to release the balance 50% i.e. NRs. 7.941 crore.

It was observed during site visit that flood is causing erosion in the embankment at Harine and there is possibility of Kamala river to avulse again into its avulsed course of last year. Emergent works are being carried out at the site to prevent erosion as per the direction of GON. The Joint Committee was informed that the ceiling of NRs. 0.4 crore for such emergent work had already been exceeded. It was decided that further protection work may be carried out up to total ceiling of NRs 0.8 crore.

The audited expenditure on these emergent works with the approval of GON would be reimbursed. The reimbursement claim should accompany detailed justification along with videos and still photos.

B-III Ongoing works in Lalbakeya river Embankment

It had been decided in the 12th meeting of SCEC to carry out the following three works and completed in the working season of 2009.

- i) Closing of gaps in the right embankment between NEC and the Nepal-India border (200m+800m) in between 0.000 to 2.30km.
- ii) Six studs 20 meters in length at 75 meters center to center at 6 km downstream of the NEC.
- iii) 5.4 km of embankment along each bank with the protection works upstream of NEC.

A cost estimate of NRs 22.56 crore inclusive of contingencies but excluding VAT for the above works as per table-1 was placed before the committee. SCEC



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approved this cost estimate and decided that tenders for the works may be floated at the earliest. Furthermore, it was also decided that the competent authority of Government of Nepal should approve these tenders. Accordingly, tender for 8 work packages was approved by GON. The Joint Committee endorsed the approval of these tenders. The tendered cost of the contracted works is NRs. 20.514 crore including five user groups and the related contingency cost is NRs. 1.026 crore. The total cost of GOI contribution is NRs. 21.45 crore. 50% of this i.e. NRs. 10.73 crore. The committee endorsed the recommendation of GFCC as per the request of GON to release the amount.

C) PROPOSED WORKS

C-I For Bagmati river

The Joint Committee noted that most of the embankment works along the Bagmati river were either completed in a number of locations or are in the process of completion. It was decided that all the running contract works must be completed before the monsoon of 2010.

Furthermore, the embankment top should be made all weather motorable by using 15 cm thick RBM in a width of 3.50 m. The related tender for the RBM over the embankment in a width of 3.5 m x 0.15 m for newly constructed embankment under this scheme may be invited. The approval of the tenders and recommendation for release of funds shall be given in the next meeting of JCIFM.

A steel screw bridge may be provided across the Manusmara river for which the scheme should be prepared after survey and investigation.

C-II Work along the Lalbakeya river

The Joint Committee noted that the works tendered recently need to be completed before the monsoon of 2010. Regarding the next phase of work, the DPR for the Phase II of Lalbakeya shall be revisited and matched to the morphology of the river existing at the site. The plan of the next stage of construction before the monsoon of 2010 shall be prepared with the details of design and estimate all complete. These details should be submitted to GFCC, Patna in October, 2009 for examination which will be placed in the next meeting of JCIFM for approval.

In addition to this, the Joint Committee instructed that a margin of one unit of Lacey's waterway be provided between the river bank and the proposed embankment in the future wherever possible in order to minimize erosion works. The Joint Committee also instructed that the construction of stud should start from the toe of the embankment and flushed to avoid outflanking.

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C-III Works to be carried out in Kamala river embankment

The Joint Committee noted that the embankment works were being carried out and instructed that the running contracts should be completed before the monsoon of 2010. The plan of the next stage of construction for the working season before the monsoon of 2010 shall be prepared after the monsoon of 2009 with the details of design, estimate all complete. These details should be submitted to GFCC, Patna in September, 2009, who will go through the proposal for consideration and approval of JCIFM. The related tenders may then be floated for these works and awarded as per decision of the competent authority of Government of Nepal.

Furthermore, the Joint Committee decided that the works henceforth be initiated systematically starting upstream from the Nepal-India border without any gaps. In addition to this, the Joint Committee instructed that a margin of one unit of Lacey's waterway be provided between the river bank and the embankment in the future wherever possible in order to minimize protection works. The Joint Committee also instructed that the construction of spur/stud should start from the direction/center line of the embankment to avoid outflanking.

C-IV Detailed Project Report for extension of embankment along Khando River

It was decided in the eleventh meeting of SCEC that the DPR for Khando river be revised. Accordingly the Nepalese side provided a revised DPR to the Indian side for examination. The estimated amount of this revised DPR was NRs. 47.743 crore and requested SCEC to approve the DPR during its twelfth meeting. The same request was reiterated in the first meeting of JCIFM. The Indian side informed that the present cross-section of the river be compared to the past one and the findings be forwarded to GFCC after which the Joint Committee would consider the DPR at the next meeting of JCIFM.

D) FLOOD INUNDATION ISSUES

D-I Kalkalwa Bund

The JCWR at its 4th meeting in March 2009 had directed the Task Group-I to complete the Joint field survey and design the opening of Kalkalwa bund by 15th May 2009. The Nepalese contact officer briefed the committee on work carried out by the Task Group-I. The committee directed the Task Group to complete its work and submit it by 30th September 2009 for consideration of JSTC.

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D-II Rasiyawal-Khurd-Lotan Bund

The Nepalese Contact Officer informed that a joint survey was conducted in the area but its findings have not been finalized. The Joint Committee decided that the two concerned Contact Officers should meet to discuss the findings of the survey data and submit their recommendations before 31st October 2009 for consideration of the JSTC.

D-III Mahali Sagar

The contact officers conducted a joint survey in December 2008 and established that there was no difference in the sill level of the new and the old structures. Nepalese side stated the new regulator should allow the excess flood discharge. The committee also noted briefing made by the contact officer of Nepalese side. The Joint Committee decided that a joint survey should be carried out by the concerned Contact Officers before 31st October, 2009 to recommend the size of opening of the gated regulator and submit for the consideration of the JSTC.

D-IV Bairganiya Ring Bund

The concerned Contact Officer stated that Gaur Bazar was flanked by the Bagmati and Lalbakeya embankments on the east and west side respectively. Furthermore, it was stated that spill from the Jhanj river also flowed into Gaur Bazar and inundation was taking place due to insufficient openings in the Bairganiya ring bund. The Nepalese side proposed that embankment be constructed on Jhanj river and additional openings be provided in the ring bund. The Indian side suggested that such a report with the details be provided to the concerned Contact Officer of Indian side. The Joint Committee decided that a joint report be prepared by the concerned Contact Officers and submitted to JSTC.

E) FLOOD FORECASTING ISSUE

E-I Flood Forecasting Master Plan

The Nepalese side stated that according to the Flood Forecasting Master Plan, 20 hydro-meteorological stations and 27 meteorological stations in Nepal along with 18 hydro-meteorological sites in India are included into the flood forecasting network. All the 27 meteorological stations are already in operation. However only 15 out of the 20 hydrological stations have been operationalized. It was noted that already 5 years had elapsed since the Master Plan was prepared. In view of the technological advancement since then, the committee requested the Nepalese side to update the master plan by 31st December 2009 and submit the same to JSTC.

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E-II Implementation of Joint Field Report of Task Group-III

The Task Group III of JSTC conducted a joint field visit of Narayani and eastern river basins during 3-7 February, 2009 for which an inspection report was prepared. A similar joint field visit could not be held for the western part due to non participation of CWC member from MGB Lucknow. It was noted that VHF/ HF wireless based data transmission system has become obsolete and needs to be replaced by the CDMA based phone system and so the wireless workshop is no longer required. The CDMA based data acquisition system has been already successfully tested in the Narayani basin and the real time data of those stations are now available on the DHM website (www.hydrology.gov.np).

The Joint Committee noted the recommendations made in the joint field report and decided to initiate the implementation of the recommendations made at the earliest.

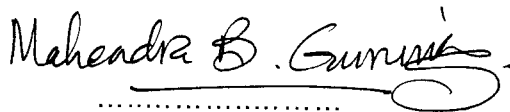
F) COMPREHENSIVE STRATEGY FOR FLOOD MANAGEMENT AND CONTROL

The Joint Committee noted that all the three parts of the report i.e. Gandak to Koshi, Koshi to Mechi and Mahakali to Gandak had been completed. It was decided that these reports would be submitted at the next meeting of JSTC for consideration.

It was decided to hold the next meeting of JCIFM in early November 2009

The meeting was held in a cordial atmosphere.

Signed on 5th of July, 2009 at Kathmandu



.....
(Mahendra B. Gurung)
Team Leader/ Director General
Dept. of Water Induced
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.....
(M.U. Ghani)
Team Leader/Member
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LIST OF PARTICIPANTSNEPALESE SIDE:

- | | | | |
|-----|--|---|------------------|
| 1. | Mr. Mahendra B. Gurung Director General, DWIDP | - | Team Leader |
| 2. | Mr. Hira Nanda Jha Deputy Director General, DWIDP | - | Member Secretary |
| 3. | Mr. Mathura Dangol S.E., Ministry of Irrigation | - | Member |
| 4. | Mr. Sanjaya Dhungel S.D.E., Water and Energy Commission Secretariat | - | Member |
| 5. | Mr. Prakash Kumar Suvedi Under Secretary, Ministry of Foreign Affairs | - | Member |
| 6. | Mr. Kailash Raj Pokharel Under Secretary, Ministry of Finance | - | Member |
| 7. | Mr. Vijay Shanker Mishra S.D.E., Department of Irrigation | - | Member |
| 8. | Dr. Dilip Kumar Gautam S.D.H, Dept. of Hydrology and Meteorology | - | Member |
| 9. | Mr. Basistha Raj Adhikari Senior Divisional Engineer DWIDP, Lalitpur | - | Member |
| 10. | Mr. Sashi Bahadur Bisht, S.D.E., DWIDP | - | Member |

Special Invitee

1. Mr. H.K. Jha, Division Chief
WIDP Division 2, Janakpur
2. Mr. R.P. Adhikary, Division Chief
WIDP Division 5, Rupandehi
3. Mr. A.C. Jha, Division Chief
WIDP Division 3, Bara
4. Mr. I.B. Jha, Division Chief
WIDP Division 6, Nepalgunj
5. Mr. A.K. Gajurel, Project Manager
River Training Project, DWIDP

FACILITATOR

1. Mr. Madan K.C., Computer Officer, DWIDP

LIST OF PARTICIPANTSINDIAN SIDE:

1. Mr. M. U. Ghani
Member (C), GFCC, Patna - Team Leader
2. Mr. C. Gururaj Rao
Joint Secretary, North-II
Ministry of External Affairs, New Delhi - Member
3. Mr. H.K.Jain
Counsellor (Com)
Embassy of India, Kathmandu - Member
4. Mr. A.K. Ojha
S.E. Irrigation Department, Govt. of UP
Lucknow - Member
5. Mr. Awadhesh Sharma
Director (I/C), MP-II, GFCC, Patna - Member -secretary
6. Mr. Prakash Chandra,
Executive Engineer,
Water Resources Dept, Govt. of Bihar, Patna - Member

Physical and Financial Progress of Kamala Embankment Project

Works Started in 2008

| S.N. | Location | | Description of Protection Works | | Contract No. | Contract Amount (NRs) | | | Physical Progress (%) | Fund Received from GOI (NRs) |
|------|----------------------------|-----------|-----------------------------------|--------------------------|-------------------------------|-----------------------|----------------------|-----------------------|-----------------------|------------------------------|
| | Chainage | Village | Type | Quantity | | GOI with Conti. | GON (only VAT) | Total | | |
| | Left Bank | | | | | | | | | |
| 1 | Ch 25+400 to 26+150 | Bhediya | Embankment Studs | 750 m 6 nos | I-N/Kamala/ LBEW 01/064/65 | 15,476,443.11 | 1,915,817.02 | 17,392,260.13 | 100 | |
| 2 | Ch 19+500 to 21+050 | Nirdana | Embankment Studs Revetment | 1.5 km 7 nos 250 m | I-N/Kamala/ LBEW 02/064/65 | 25,240,427.47 | 3,124,947.69 | 28,365,375.16 | 100 | |
| | | | | | | | | | First Release | 97,100,000 |
| | Right Bank | | | | | | | | | |
| 3 | Ch 18+100 to 19+450 | Harine | Embankment Revetment | 1.35 km & 750 m | I-N/Kamala/ RBEW 03/064/65 | 33,227,175.32 | 4,113,362.50 | 37,340,537.82 | 95 | |
| 4 | Ch 16+000 to 18+100 | Harine | Embankment & Studs | 2.1 km 3 Nos. | I-N/Kamala/ RBEW 04/064/65 | 23,133,358.00 | 2,863,767.73 | 25,997,125.73 | 80 | |
| 5 | | Harine | Channelization | 2.70 km | User's Group | 3,497,571.00 | | 3,497,571.00 | 100 | |
| 6 | | Harine | Channelization & Bamboo piling | 2.50 km & 500m | User's Group | 3,499,879.95 | | 3,499,879.95 | 100 | |
| 7 | Ch 4+100 to 4+600 | Malhaniya | Embankment & Revetment | 500m & 450m | I-N/Kamala/ RBEW 05/064/65 | 21,616,688.18 | 2,676,102.91 | 24,292,791.09 | 85 | |
| 8 | Ch 3+600 to 4+100 | Malhaniya | Embankment & Revetment | 500m & 420m | I-N/Kamala/ RBEW 06/064/65 | 20,798,967.38 | 2,576,832.44 | 23,375,799.82 | 100 | |
| 9 | Ch 3+100 to 3+600 | Malhaniya | Embankment & Revetment | 500m & 420m | I-N/Kamala/ RBEW 07/064/65 | 20,802,849.38 | 2,577,337.10 | 23,380,186.48 | 85 | |
| 10 | Ch 2+600 to 3+100 | Malhaniya | Embankment & Revetment | 500m & 420m | I-N/Kamala/ RBEW 08/064/65 | 20,683,035.38 | 2,561,761.28 | 23,244,796.66 | 100 | |
| 11 | | Malhaniya | Channelization | 3 km | User's Group | 3,448,872.00 | | 3,448,872.00 | 100 | |
| | Total | | | | | 191,425,267.17 | 22,409,928.67 | 213,835,195.84 | Second Release | 97,100,000 |
| | Total length of embankment | | | 7.70 km | | | | | | 194,200,000 |
| | Total length of channel | | | 8.20 km | | | | | | |
| | Total length of revetment | | | 2,710.00 m | | | | | | |
| | Total nos of studs | | | 16 nos | | | | | | |

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Physical and Financial Progress of Kamala Embankment Project

Works Started in 2009

| S.N. | Chainage | Location | Proposed Protection works | | Contract No. | Contract Amount (NRs) | | | Physical Progress (%) | Fund Received from GOI (NRs) |
|---------------------------|------------------|--------------------|---------------------------------|----------------------------|----------------------------|-----------------------|----------------------|-----------------------|-----------------------|------------------------------|
| | | | Type | Quantity | | GOI with Conti. | GON (13% VAT) | Total | | |
| Left Bank | | | | | | | | | | |
| 1 | 26+600 to 27+132 | U/S of Bhediya | Embankment Stud | 532 m 4 Nos. | I-N/Kamala/LB 09/065-66 | 11,170,016.35 | 1,452,102.13 | 12,622,118.48 | 85.00 | |
| 2 | 21+050 to 25+400 | Bhediya to Chikana | Embankment | 4.35 km | I-N/Kamala/LB 10/065-66 | 21,904,119.78 | 2,847,535.57 | 24,751,655.35 | 65.00 | |
| 3 | 14+100 to 15+100 | Chatari | Embankment Stud | 1.0 km 6 Nos. | I-N/Kamala/LB 11/065-66 | 22,859,668.00 | 2,971,756.84 | 25,831,424.84 | 70.00 | |
| Total Left Bank | | | | | | | | | First Release | 79,410,000 |
| Right bank | | | | | | | | | | |
| 4 | 24+450 to 25+450 | Kiratpur | Embankment Stud | 1.0 km 6 Nos. | I-N/Kamala/RB 12/065-66 | 25,632,110.00 | 3,332,174.30 | 28,964,284.30 | 70.00 | |
| 5 | 19+450 to 19+950 | Harine | Embankment Revetment Stud | 500 m 99 m 4 Nos. | I-N/Kamala/RB 13/065-66 | 21,224,255.50 | 2,759,153.22 | 23,983,408.72 | 85.00 | |
| 6 | 4+600 to 5+000 | Malhaniya | Embankment Revetment Stud | 400 m 291 m 4 Nos. | I-N/Kamala/RB 14/065-66 | 27,711,775.00 | 3,602,530.75 | 31,314,305.75 | 80.00 | |
| 7 | 2+100 to 2+600 | Malhaniya | Embankment Stud Sluice | 500 m 2 Nos. 1 No. | I-N/Kamala/RB 15/065-66 | 12,280,534.00 | 1,596,469.42 | 13,877,003.42 | 70.00 | |
| Total Right bank : | | | | | | | | | | |
| Contract Total : | | | | | | 142,782,478.63 | 18,561,722.22 | 161,344,200.85 | | |
| User's Group | | | | | | 1,907,010.00 | | 1,907,010.00 | 25.00 | |
| 8 | | Hathmunda | Channelization River Diversion. | 1.5 km 500 m | User's Group | | | | | |
| 9 | | Banarjhulla | Embankment | 500 m | User's Group | 1,740,961.25 | | 1,740,961.25 | 80.00 | |
| 10 | | Hathmunda | Stud | 3 Nos. | User's Group | 2,861,407.29 | | 2,861,407.29 | 25.00 | |
| 11 | | Singyahi | Stud | 3 Nos. | User's Group | 2,861,407.29 | | 2,861,407.29 | 25.00 | |
| Total User's Group | | | | | | 9,370,785.83 | | 9,370,785.83 | | |
| Total : | | | | | | | 18,561,722.22 | Second Release | | |
| Contingencies @5% | | | | | | 6,663,561.60 | | 6,663,561.60 | | |
| GRAND TOTAL : | | | | | | 158,816,826.06 | 18,561,722.22 | 177,378,548.28 | | |
| | | | | Total length of embankment | | | | | | |
| | | | | Total length of channel | 10.282 km | | | | | |
| | | | | Total length of revetment | 1.50 km | | | | | |
| | | | | Total nos of studs | 390.00 m | | | | | |
| | | | | | 26 nos | | | | | |

Physical and Financial Progress of Bagmati River Training Project (Left Bank)

Work Started in 2007

| S.N. | Location | | Description of Works | Quantity (km) | Contract No. | Contract Amount(NRs) | | Physical Progress | Fund released from GOI(NRs) | |
|-----------------------------------|------------------------------------|---------------------|----------------------------|---------------|------------------------|----------------------|---------------------|----------------------|-----------------------------|-------------------|
| | Chainage | Village | | | | GOI with Contingency | GON(VAT only) | | | Total |
| Fiscal Year 2007-08 | | | | | | | | | | |
| 1 | 0+000 to 1+550 | Sedhwaghotha | Construction of embankment | 1.55 | I-N/ Bagmati/L-C1/2008 | 10,644,352.47 | 1,329,364.98 | 11,973,717.45 | 90% | 35,300,000 |
| 2 | 1+550 to 4+470 | Hathiaul | Construction of embankment | 2.92 | I-N/ Bagmati/L-C2/2008 | 11,254,949.23 | 1,400,656.47 | 12,655,605.70 | 100% | |
| 3 | 4+770 to 7+440 | Chhatauna, Badharwa | Construction of embankment | 2.67 | I-N/ Bagmati/L-C3/2008 | 8,367,872.32 | 1,074,883.74 | 9,442,756.07 | 90% | |
| 4 | 7+440 to 9+100 | Dhurba, Chhatauna | Construction of embankment | 1.66 | I-N/ Bagmati/L-D1/2008 | 10,520,318.32 | 1,357,805.98 | 11,878,124.30 | 95% | |
| 5 | 9+100 to 14+200 | Khairawa | Construction of embankment | 5.10 | I-N/ Bagmati/L-D2/2008 | 15,197,997.82 | 1,889,983.74 | 17,087,981.56 | 100% | |
| 6 | 14+200 to 16+550 | Mahinathpur | Construction of embankment | 2.35 | I-N/ Bagmati/L-D3/2008 | 12,640,619.85 | 1,576,507.26 | 14,217,127.11 | 100% | |
| 7 | Crop and borrow earth compensation | | | | | 2,000,000.00 | | 2,000,000.00 | | |
| Total length of embankment | | | | | | 70,626,110.01 | 8,629,202.18 | 79,255,312.19 | Second release | 35,300,000 |
| | | | | | | | | | | 70,600,000 |

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Physical and Financial Progress of Bagmati River Training Project

| S.N. | Location | | Description of Protection Works | | Contract no. | Contract Amount, Nrs. | | | Physical Progress | Fund received from GOI(NRS) |
|--|--------------------------|---------------------------------------|--|-----------------------------------|---|-----------------------|----------------------|-----------------------|-------------------|-----------------------------|
| | Chainage | Village | Type | Quantity | | GOI with Contingency | GON(VAT only) | Total | | |
| Bagmati River Training Project (Left Bank) | | | | | | | | | | |
| 1 | 4+800 | Hathiaul | Construction of Spur | 1 No. | I-N/ Bagmati/L- CS ₁ /2008-09 | 12,439,318.24 | 1,555,433.72 | 13,994,751.96 | 0% | |
| 2 | 5+070 | Hathiaul | Construction of Spur | 1 No. | I-N/ Bagmati/L- CS ₂ /2008-09 | 12,446,142.54 | 1,555,433.72 | 14,001,576.26 | 0% | |
| 3 | 6+530 | Chhatauna | Construction of Spur | 1 No. | I-N/ Bagmati/L- CS ₃ /2008-09 | 12,498,333.25 | 1,555,433.72 | 14,053,766.97 | 0% | |
| 4 | 6+800 | Chhatauna | Construction of Spur | 1 No. | I-N/ Bagmati/L- CS ₄ /2008-09 | 12,381,092.74 | 1,555,433.72 | 13,936,526.46 | 0% | |
| 5 | 10+130 | Khairawa, Inarawa | Construction of Spur | 1 No. | I-N/ Bagmati/L- DS ₁ /2008 | 11,856,064.89 | 1,472,701.16 | 13,328,766.05 | 15% | |
| 6 | 10+400 | Khairawa, Inarawa | Construction of Spur | 1 No. | I-N/ Bagmati/L- DS ₂ /2009 | 11,827,628.16 | 1,472,701.16 | 13,300,329.32 | 0% | |
| 7 | 10+670 | Khairawa, Inarawa | Construction of Spur | 1 No. | I-N/ Bagmati/L- DS ₃ /2010 | 11,842,445.52 | 1,472,701.16 | 13,315,146.68 | 20% | |
| 8 | 10+940 | Khairawa, Inarawa | Construction of Spur | 1 No. | I-N/ Bagmati/L- DS ₄ /2011 | 11,844,445.52 | 1,472,701.16 | 13,317,146.68 | 50% | |
| 9 | 0+340 to 2+000 | Hathiaul | Construction of Embankment along Left Bank of Manumara | 1.66 | I-N/ Bagmati/L- MEL/2008-09 | 10,912,408.98 | 1,372,888.34 | 12,285,297.32 | 0% | |
| 10 | 0+00 to 2+000 | Dhruwa- Chhatauna | Construction of Embankment along Right Bank of Manumara | 2.0 | I-N/ Bagmati/L- MER/2008-09 | 12,953,432.54 | 1,617,674.60 | 14,571,107.14 | 10% | |
| 11 | 0+00 to 7+440 | Badharwa, Chhatauna, Hathiaul | Construction of Anti-flood Sluice & Irrigation Outlet within package " C " | AFS-4 Nos & P.Outlet-3 Nos. | I-N/ Bagmati/L- STRC/2008-09 | 16,122,644.22 | 2,006,151.36 | 18,128,795.58 | 0% | |
| 12 | 7+440 to 16+650 | Mahinathpur, Khairawa, Inaruawa | Construction of Anti-flood Sluice & Irrigation Outlet within package " D " | AFS-2 Nos & P.Outlet-3 Nos. | I-N/ L-STRD/2009 | 11,129,984.31 | 1,389,897.89 | 12,519,882.20 | 0% | |
| Bagmati River Training Project (Right Bank) | | | | | | | | | | |
| 13 | 2+030,2+300 and 2+570 | Brahampuri, Rautahat | Construction of Studs within Package " A " | 3.0 | I-N/ Bagmati/R- ASII/2008-09 | 11,875,540.24 | 1,472,109.32 | 13,347,649.56 | 60% | |
| 14 | 11+180,11+450 ,14+180 | Matsari, Rautahat | Construction of Studs within Package " B " | 3.0 | I-N/ Bagmati/R- BSII/2008-09 | 14,957,826.53 | 1,866,037.88 | 16,823,864.40 | 50% | |
| 15 | | Pakaha, Rautahat | Construction of Embankment & Anti- Flood Sluice | 0.672 km AFS--1No. | I-N/ Bagmati/R-B- EMB/2008-09 | 9,664,029.89 | 1,203,244.86 | 10,867,274.75 | 40% | |
| | Total | | | | | 184,751,337.56 | 23,040,543.76 | 207,791,881.32 | | |

MNS

8/11

Physical and Financial Progress of Lal Bakeya River Training Project

Work Started in 2009

| S.N. | Location | | Description of Works | | Contract No. | Contract Amount, Nrs. | | Physical Progress | Fund Received from GOI (NRs.) |
|--|---------------------------------------|------------------|----------------------|----------|------------------------|-----------------------|----------------------|-------------------|-------------------------------|
| | Chainage | Village | Type | Quantity | | GOI Contribution | GON (13% VAT) | | |
| Lal Bakeya River Training Project Phase I (d/s of NEC) | | | | | | | | | |
| 1 | 1+500 to 2+300 & 6 km d/s of NEC (RB) | Auriya | Embankment | 800m | I-N/LBK-1/R-P1/2009 | 17,648,887.57 | 2,197,032.68 | 40% | |
| | | | Studs | 5 Nos | | | | | |
| 2 | 6 km d/s of NEC (LB) | Tikuliya | Studs | 1 nos | Users | 2,484,836.73 | | 0% | |
| Lal Bakeya River Training Project Phase II (u/s of NEC) | | | | | | | | | |
| 3 | 0+00 to 0+800 along NEC (RB) | Rajpur Pharadawa | Revetmet | 800m | IN/LBK-2/R-NEC-P2-2009 | 33,552,699.61 | 4,168,058.98 | 20% | |
| 4 | 0+000 to 1+000 (RB) | Rajpur Pharadawa | Embankment, m | 1000 | IN/LBK-2/R-P3-2009 | 26,334,919.27 | 3,277,997.64 | 0% | |
| | | | Studs | 5 | | | | | |
| | | | Revetmet | 150 | | | | | |
| 5 | 1+000 to 4+000 (RB) | Rajpur Pharadawa | Embankment, m | 3000 | IN/LBK-2/R-P4-2009 | 32,408,373.85 | 4,038,622.00 | 60% | |
| | | | Studs | 0 | | | | | |
| | | | Revetmet | 400 | | | | | |
| 6 | 4+000 to 5+400 (RB) | Tejapakad | Embankment, m | 1400 | IN/LBK-2/R-P5-2009 | 23,727,011.87 | 2,949,657.74 | 50% | |
| | | | Studs | 1 | | | | | |
| | | | Revetmet | 250 | | | | | |
| 7 | 0+000 to 1+200 (LB) | Rajpur Tulsi | Embankment, m | 1200 | IN/LBK-2/L-P6-2009 | 18,927,895.53 | 2,362,979.65 | 50% | |
| | | | Studs | 0 | | | | | |
| | | | Revetmet | 275 | | | | | |
| 8 | 1+200 to 2+800 (LB) | Rajpur Tulsi | Embankment, m | 1600 | IN/LBK-2/L-P7-2009 | 23,820,345.69 | 2,952,801.50 | 0% | |
| | | | Studs | 6 | | | | | |
| | | | Revetmet | 0 | | | | | |
| 9 | 2+800 to 5+400 (LB) | Gigadawa | Embankment, m | 2600 | IN/LBK-2/L-P8-2009 | 25,091,147.04 | 3,116,026.76 | 0% | |
| | | | Studs | 0 | | | | | |
| | | | Revetmet | 300 | | | | | |
| 10 | 1+000 (RB) | Rajpur | Studs | 1 nos | Users | 2,620,644.53 | | 0% | |
| 11 | 4+000 (RB) | Tejapakad | Studs | 1 nos | Users | 2,620,644.53 | | 0% | |
| 12 | 1+200 (LB) | Phatuwa | Studs | 1 nos | Users | 2,620,644.53 | | 0% | |
| 13 | 2+800 (LB) | Jingadawa | Studs | 1 nos | Users | 2,620,644.53 | | 0% | |
| Total | | | | | | 214,478,695.28 | 22,866,144.28 | | |
| Total length of embankment | | | | 11.6 km | | | | | |
| Total length of revetment | | | | 2,175 m | | | | | |
| Total no of studs | | | | 22 nos | | | | | |

Annex-III

Details of Discrepancy

| S.N | Description | Funds recommended for release by 11th SCEC meeting and requested by GON in NRs crore | Funds actually released by GOI in NRs crore | Funds noted to have been released by 12th SCEC Meeting in NRs crore | Discrepancy in NRs crore (to be released) |
|-----|--|--|---|---|---|
| 1 | Balance payment of NEC breach closure | 0.4676 | 0.4676 | 0.43 | -0.0376 |
| 2 | Emergent works of Bagmati in 2008 | 0.34 | 0 | 0.34 | 0.34 |
| 3 | Balance payment of Bagmati embankment works of 2008 | 3.53 | 3.00 | 3.00 | 0 |
| 4 | Balance payment of additional works in Bagmati package A and B | 1.944 | 1.944 | 1.94 | -0.004 |
| 5 | Balance payment of ongoing emergent works in Kamala | 9.71 | 9.71 | 9.71 | 0 |
| | Total | 15.9916 | 15.1216 | 15.42 | 0.2984 |

mbs

18/09/12