

WORLD BANK SUPPORT MISSION UNDER DRIP-II

Doc. No.: BBMB/DRIP-II/01



JULY 2022

Bhakra Beas Management Board

**DAM REHABILITATION
AND IMPROVEMENT
PROJECT
Phase-II**

**BHAKRA BEAS MANAGEMENT BOARD
CHANDIGARH**

FIRST WORLD BANK SUPPORT MISSION UNDER DRIP-II BHAKRA BEAS MANAGEMENT BOARD

Introduction: Dam Rehabilitation and Improvement Project (DRIP) is one of the flagship projects of the Ministry of Jal Shakti (MoJS), Department of Water Resources, River Development & Ganga Rejuvenation, Government of India and the World Bank with the objective to improve safety and operational performance of selected dams, along with institutional strengthening with system wide management approach along with sustainable operation and maintenance. Under this scheme, BBMB as central agency is participating with initial financial component of about Rs. 230 Cr for its projects (Four Dams – Bhakra Dam, Beas Dam, Nangal Dam and Pandoh Dam) which has been revised to Rs 341.00 Cr (Rs 147.02 Cr for DRIP-II and Rs 194 Cr for DRIP-III) on the basis of inspection and recommendations of Dam Safety Review Panel (DSRP) of BBMB for all four dams. As PST is living document and BBMB may revise during the course of the project for some innovative solutions and much needed works.

The Objective of BBMB to participate in DRIP Project is to improve the dam safety and operational performance of three major hydro-electric projects namely Bhakra Nangal Project, Beas Dam Project and Beas Satluj Link Project, with emphasis on institutional strengthening with system wide management approach along with sustainable operation and maintenance. These dams are vital for ensuring the water security of the partner states; and these also constitute a major responsibility in terms of asset management and safety. Realising the importance of this aspect, BBMB is participating in DRIP as this project will provide an opportunity to share successful and well established technical forum in bringing greater awareness of dam safety issues and addressing the serious problems by introducing novel solutions and technologies available in international market. It will enhance institutional capacity building programme of BBMB with system wide management approach for safe and sustainable dam operations. BBMB will be acquainted with much needed technical support from renowned dam safety professionals and experts to be engaged under DRIP at national level including collaboration with distinguished international agencies for state of the art technologies. It will fulfill the requirement of BBMB for real time instrumented monitoring of its dams, development of centralized control and command systems, capacity building through long term association with leading global institutional etc. The participation will improve the safety and performance of existing dams and associated appurtenances in a sustainable manner, and will strengthen the dam safety institutional set-up by adopting coherent approach in long run for sustainable water management. The benefits from the project are expected to accrue through avoided losses and damages due to remedial measures under the project. Fourteen States has signed Loan Agreement and Project Agreement with World Bank for DRIP-II which has been formally declared effective from October12, 2021 with likely closing date as

July 2027. In the meantime, the DRIP, Phase III will be started from June 2025 for the period of six years upto the year 2031.

The World Bank is hosting a meeting with all new States/ Implementing Agencies including BBMB on 26th July, 2022 as a part of its Support Mission. The point of discussion with BBMB is following 10-Point Readiness Criteria:

A. Institutional

- 1. Establishment of SPMU and deployment of Core Staff :** For overall project planning, management and co-ordination including procurement, financial, technical, social & environmental aspects, BBMB established SPMU of BBMB vide Secretary, BBMB, Chandigarh Office Order No.17/B-1618/DRIP/DHD dated 30.04.2019 and a copy of same is enclosed as Annexure-I. The core qualified staff has been deployed for management of DRIP in BBMB. The staff will be supplemented with consultants as per requirement.
- 2. Formation of DSRP:** For implementation of Dam Rehabilitation and Improvement Project (DRIP), Phase-II & Phase-III through dam inspections and recommendations in respect of four dams, BBMB constituted Dam Safety Review Panel (DSRP) vide Secretary, BBMB, Chandigarh Office Order No.38/B-1618/DRIP/DHD dated 23.09.2019 and a copy of same is enclosed as Annexure-II.

B. Technical

- 3. Finalization of several PSTs:** The DSRP inspection was started with kickoff Meeting of DSRP of BBMB on 14.11.2019 at Delhi for preliminary discussions with BBMB Officers regarding preparations for DSRP Inspections and reporting in prescribed Format. Finally DSRP inspected all four dams under BBMB (Bhakra Dam, Beas Dam, Nangal Dam and Pandoh Dam) from 16.12.2019 to 20.12.2019 with closing meeting at BBMB Board Office with Worthy Chairman. The Project Screening Templates (PSTs) of all four dams were prepared after consultation with DSRP experts and finally submitted to CPMU on 20.02.2020 through SPMU and Board Office. The World Bank Team reviewed the PST of Bhakra Dam, BBMB and gave no objection to the Project Screening Template of Bhakra Dam subject to the compliance of recommendations and duly revising the costs of the two works (Civil Package). The World Bank recommended for:
 - a. Provision of the Modern "Steel Fibres Reinforced Shotcrete (SFERS)" should be made in the PST in place of the Conventional "Plain Shotcrete" presently made in the PST on account of the all-round superiority, structural and practical advantages offered by the former, as outlined in detail in Paragraph 4 of our Review Comments (Conventional 'Plain Shotcrete' sprayed on the rock surfaces nailed with chain link / wire mesh, has now been overtaken by the Modern "Steel Fibres Reinforced

Shotcrete" the world over). Accordingly, the cost estimate of shotcrete should be revised in the two works based on the typical mix design of SFRS given in Paragraph 5 of our Review Comments (The two Works are: (i) Strengthening of slopes surrounding Bhakra Dam abutments, upstream and downstream areas, and (ii) Treatment of Highway and Dinkey tunnels).

- b. Provision of Lean Concrete (1:4:8) should be made in place of the present provision of Lean Concrete (1:5:10) to be placed in the invert of the Highway tunnel and that of the Dinkey Tunnel.
- c. CPMU may kindly communicate the same to BBMB-SPMU and also advise them to start preparing the ESF requirements and the bid document.

Accordingly, Bid document was revised for Civil Package and submitted on 30.09.2020 to CPMU for approval.

C. Financial:

4. **Creation of Budget Line:** BBMB created separate budget line for Externally Aided Project (EAP) with concurrence of FA&CAO, BBMB as per Manual of Accounts Code of BBMB for incurring expenditure under DRIP in BBMB. Major Head, Sub Head & Minor Head will function as per existing Manual of Accounts Code of BBMB. The copy of Secretary, BBMB, Chandigarh letter No. 1278-85/B-1618/DRIP/DHD dated 11.05.2020 is enclosed as Annexure-III for reference please.

In 235th Meeting of Bhakra Beas Management Board held on 07.07.2020, the Board decided that consequent sharing of loan by partner States/Power utilities as their agreed share and opening of the respective budget line, the financial concurrence of partner States/Power utilities may be obtained. BBMB got approval of financial concurrence for DRIP-II conveyed by the partner States/Power Utilities and is given below:

Sr. No.	Name of States/Power Utilities	Letter No. & Date
1.	Engineer-in-Chief, Irr. & W.R. Department, Haryana, Panchkula.	No. 113-118/IS/4479 /96 dated 21.10.2020
2.	OSD, Water Resources Department, Government of Rajasthan.	No. CE/WRD/NCF/R-11/B/234/295 dated 26.11.2020
3.	Chief Engineer (NPP & RA), Rajasthan Rajya Vidyut Prasaran Nigam Ltd., Jaipur.	No. RVPN/SE (ISP)/F 30/D 215 dated 19.02.2021
4.	Chief Engineer/Canal-1, Water Resources Department Punjab, Chandigarh.	No. 1248-49/Part dated 21.09.2021
5.	Chief Engineer/Hydel Projects, PSPCL, Patiala.	No. 153/157 dated 12.02.2021
6.	Chief Engineer (System Operation),	No. HPSEBL/CE/ (SO) IS-

Sr. No.	Name of States/Power Utilities	Letter No. & Date
	HPSEBL, Vidyut Bhawan, Shimla.	11 A (Vol.-VI)/2020-1555-57 dated 27.10.2020
7.	Advisor to the Administrator, UT, Chandigarh.	No. PS/AA-2021/465 dated 12.01.2021

The overall responsibility for project oversight and coordination with the World Bank, Govt. of India/ CWC as well as with its Partner State Governments/ Power Utilities is entrusted to BBMB. Also, BBMB on behalf of its Partner State Governments/ Power Utilities will manage both technical and financial proactive and on-demand responses of DRIP, Phase-II and Phase-III, including fund flow, accounting, and internal control framework of the project for which in-principal approval/consent has been obtained from partner states/ power utilities.

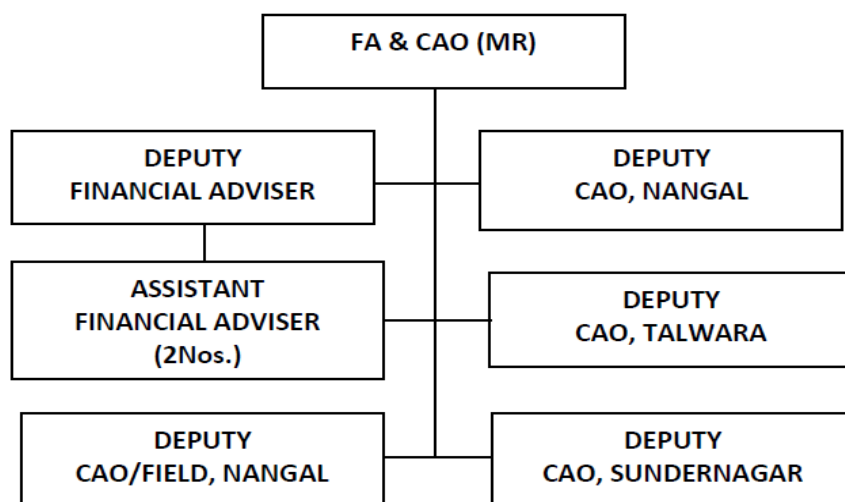
The fund flow mechanism from World Bank/DEA in terms of loan to BBMB through Government of India was required to be established /finalised under DRIP. Now Ministry of Jal Shakti, Government of India vide Under Secretary letter No. R-22011/ 2/2022-Pen Riv Section- MoWR dated 11.07.2022 (Copy Enclosed as Annexure-IV) has decided that fund flow arrangement in respect of BBMB for the ongoing DRIP Phase-II scheme will be routed through the Ministry of Jal Shakti utilizing the existing budget head (4701.80.800.07.03.55 – Loan and Advances) of this department.

Secretary, BBMB, Chandigarh vide letter No. 1219-21/B-1618/DRIP/DHD dated 30.06.2022 (Copy enclosed as annexure-V) has conveyed approval of competent authority of BBMB for opening of separate saving account in the State Bank of India, Naya Nangal and BBMB is in process of opening DRIP specific bank account title as “EAP-DRIP” and the amount will be transferred from budget to the project-specific bank account maintained by BBMB from which expenditure will be ascertained.

5. **Allocation of Budget:** In view of such fluid situation of BBMB arising consequent upon fund flow arrangement and delay in giving concurrence by all partner States/Power Utilities, only indicative budget provision was made for FY 2022-23 during last year. BBMB is in process of allocating required funds to DRIP account for incurring expenditure in or before RBE.
6. **Financial System Assessment:** BBMB is managing its own accounting procedure framed as soon as its constitution. Basically, it is single entry system. The accounting system of BBMB is computerized and has its own accounting manual. Financial and Administrative authorities have been laid down in delegation of powers/ Civil Services Rules (CSR) / Punjab Financial Rules (PFR) / Department Financial Rules (DFR) (as applicable) and other instructions issued from time to time. The policies and procedures covering all routine accounting and administrative activities are well established in BBMB.

In BBMB, there are two wings (Executive Wing and Finance & Accounts Wing). All projects related works are performed by Executive wing and pre-checks of all claims, purchase proposals and other transactions related to accounts are being arranged by Finance & Accounts Wing. The Organization and Reporting Structure of Top Financial Management is depicted as under:

● **Organization set up of FA & CAO**



The Procedures have been documented for the management of administrative, finance and secretarial support to top management of BBMB to facilitate service realization through respective Chief Engineers of Irrigation and Power Wing. Financial Advisor and Chief Accounts Officer (FA& CAO) is principal officer of the Board to operate 'Personal Ledger Account' of the Board and issues necessary instructions related to accounts. All transactions of receipt and payment are being carried out through Bank Accounts in SBI at various locations and are being reconciled on monthly basis at one place (Headquarter-Nangal) in Banking Section of Finance & Accounts Wing.

Chairman, BBMB is over all Head of the Organization. He is responsible for interacting with the State & Central Government authorities. He chairs the Board meetings & provides the policy direction to the organization & set organizational goals. As the Chairman of the Board, he reviews the performances of various departments & provides necessary resources. CAG through Punjab AG is the auditor and financial statement is regularly audited by Punjab AG duly appointed by Govt. of India. Internal audit of financial and accounting transactions is being done at division level. Internal Audit of financial and accounting transactions of BBMB is functioning under the control of Financial Advisor and Chief Accounts Officer (FA& CAO).

SPMU of BBMB will have overall responsibility for the coordination of the project activities at BBMB level, both technically and qualitatively and will monitor the physical and financial progress including safeguards issues.

Accounts officer, Assistant Accounts Officer and Drawing and Disbursing Officer (DDO) are designated in SPMU for financial management in BBMB. The existing system of DRIP for financial management will be adopted in BBMB under DRIP. The funds will be executed through divisions by opening separate head of accounts for DRIP under division code of Nangal Dam Division already nominated as DDO proposed for accounting classification of expenditure to be incurred so as to ascertain head wise detail of expenditure of DRIP to be liable for auditory purpose.

D. Environment & Social

7. Finalization and Disclosure of ESMF, ESCP and SEF: BBMB will implement material measures and actions so that the Project is implemented in accordance with the Environmental and Social Standards (ESSs).

BBMB will also comply with the provisions of any other E&S documents required under the ESF and referred to in this ESCP, such as the Environmental and Social Impact Assessments (ESIAs), Environmental and Social Management Plans (ESMPs), Stakeholder Engagement Framework (SEF), Resettlement Policy Framework, Tribal Development Framework, GBV Risk Mitigation Framework, Labor Management Procedure and the timelines specified in those E&S documents.

Where Project changes, unforeseen circumstances, or Project performance result in changes to the risks and impacts during Project implementation, BBMB shall provide additional funds, if needed, to implement actions and measures to address such risks and impacts, which may include, such as environmental, health, and safety impacts, labor influx, gender-based violence.

Environment and Social Management Framework (ESMF), Environment and Social Commitment Plan (ESCP), and Stakeholder Engagement Framework (SEF) Documents prepared on 19.04.2020 are disclosed on BBMB website on 25.04.2020. These documents modified on 05.09.2020 for disclosing on website on 12.09.2020. The information in this regard is enclosed as Annexure-VI.

E. Procurement

8. Registration in STEP: CPMU has requested to World Bank on dated 18.07.2022 through e-mail as under:

As you know that BBMB has fulfilled all the readiness criteria of the World Bank and is about to formally come on-board DRIP Phase-II & Phase-III, in this regard, please register the account for BBMB in STEP Portal as per the details mentioned below:

Name of the concerned officer: Er. HUSAN LAL KAMBOJ
Designation: DEPUTY CHIEF ENGINEER
Mobile- +91-9468177095

Phone number : 01887-223017

Email id: sebdc@bbmb.nic.in

BBMB staff shall be provided training to work in STEP.

9. Procurement System Assessment: BBMB follows its own management rules and regulations 1974 & 1976. Management of purchase/ procurement in BBMB is in line with established procedures through BBMB Purchase Procedure, 2014 amended from time to time and also through GeM as per guidelines issued by Government of India from time to time. BBMB has adopted e-procurement procurement system by using <https://eproc.punjab.gov.in>.

10. Approval of Procurement Plan by World Bank : BBMB is in the process of finalization of its need based DRIP works. The Bid documents were prepared and submitted to CPMU on 15.04.2020 and revised on 30.09.2020 through SPMU and BBMB Board Office as under:

Bhakra Dam

- Strengthening of slopes surrounding Bhakra Dam abutments upstream & downstream areas & Treatment of Highway & Dinky Tunnels. (Rs 4769 Lakh)
- Modernization, upgradation and automation of Instrumentation with Real Time Monitoring System under DRIP-II (Rs 458 Lakh)

Pandoh Dam

- Supply, Installation, Testing and Commissioning of The Automation System of Pandoh Dam Spillway Gates and Baggi Control Works Regulating and Emergency Gates Under DRIP-II subject to No objection of World Bank and expected modifications if any (Rs 330 Lakh)

The tentative procurement plan of BBMB is enclosed as Annexure- VII.

BBMB is a new central agency participating in DRIP-II and intend to improve the dam safety and operational performance of three major hydro-electric projects namely Bhakra Nangal Project, Beas Dam Project and Beas Satluj Link Project, with emphasis on institutional strengthening with the help of Government of India and World Bank. It will enhance institutional capacity building programme of BBMB with system wide management approach for safe and sustainable dam operations. BBMB will be acquainted with much needed technical support from renowned dam safety professionals and experts to be engaged under DRIP at national level including collaboration with distinguished international agencies for state of the art technologies.

BBMB PROPOSAL FOR DRIP-II: Based on the recommendations of DSRP Inspection Reports for dams, the following tentative proposal is planned to be undertaken in DRIP during phase II and is given as under:

S. No.	Description of Project Components	Estimated Cost in Lakhs
A	Component 1: Rehabilitation and Management Planning for Dams and Associated Appurtenances	13741.00
B	Component 2: Dam Safety Institutional Strengthening	412.23
C	Component 3: Innovative Financing for Sustainable Operation and Maintenance of Dams	274.82
D	Component 4: Project Management	274.82
	Total(A+B+C+D) in Lakhs	14702.87 Say 147 Cr

PHASEWISE ABSTRACT OF REHABILITATION AND IMPROVEMENT WORKS

S. No.	Description	Estimated Cost in Crore	Remarks
A	Rehabilitation and Improvement Proposals for all four dams in Phase-II	137.41	Works are proposed to be undertaken in Phase-II in six years.
B	Rehabilitation and Improvement Proposals for all four dams in Phase-III	194.00	Works are proposed to be undertaken in Phase-III in six years.
A + B	Rehabilitation and Improvement Proposals for all four dams	331.41	Works are proposed to be undertaken in Phase-II and Phase-III in ten years.

Note: BBMB is planning to rearrange works and final amount may vary depending upon finalization of works

A: REHABILITATION AND IMPROVEMENT WORKS FOR DRIP-II

S. No.	Description of Rehabilitation and Improvement Proposals	Estimated Cost in Lakhs
I	Rehabilitation and Improvement Proposals for Bhakra Dam	
1	Strengthening of slopes surrounding Bhakra Dam Abutments, upstream & downstream areas	4605.00
2	Treatment of Highway and Dinky Tunnels.	164.00
	TOTAL CIVIL PACKAGE	4769.00
3	Modernization, upgradation and automation of Instrumentation with Real Time Monitoring System	458.00
4	SCADA Enabled Automation of Spillway radial gates and Outlet gates of Bhakra Dam	262.00
5	Purpose Driven Study: Additional FEM Study for static deformation behaviour including elasto-plastic analysis (Creep Study) of Bhakra Dam including risk assessment studies.	100.00
6	Purpose Driven Study: Seismic Analysis of Bhakra Dam to examine seismic safety under revised seismic parameter inputs	100.00
	Total I	5689.00
II	Rehabilitation and Improvement Proposals for Nangal Dam	
1	Strengthening of Nangal Dam bridge (CHR & RHR) girders (I-beams), pier caps along with wearing coat only on RHR.	421.00
2	"Security arrangement of Nangal Dam by Providing and fixing 10.5' high Chain link fencing (including 2.5 ft. "V" shaped Concertina barbed wire coil on the top) along both sides of Nangal Dam Reservoir area.	239.00
	TOTAL CIVIL PACKAGE	660.00
3	Inspection and Maintenance of downstream cistern of Nangal Dam.	300.00
4	SCADA enabled Automation of Gates of Nangal Dam and CHR	290.00
5	Procurement of Machinery and Surveillance equipments for Nangal Dam	75.00
	Total II	1325.00
III	Rehabilitation and Improvement Proposals for Pandoh Dam	
1	SCADA Enabled Automation of Spillway radial gates of Pandoh Dam and gates at Baggi Control Works	329.00
2	Purpose Driven Study: Seismic Analysis of Pandoh Dam to examine seismic safety under revised seismic parameter inputs	100.00
	Total III	429.00
IV	Rehabilitation and Improvement Proposals for Beas Dam	
1	Restoration of downstream face of Beas Dam by providing stone pitching	5900.00
2	SCADA Enabled Automation of Spillway Radial Gates and Slide Gates of Irrigation outlet T-1 & T-2 Tunnels of Beas Dam	298.00
3	Purpose Driven Study: Seismic Analysis of Beas Dam to examine seismic safety under revised seismic parameter inputs	100.00
	Total IV	6298.00
	Grand Total (I+II+III+IV)	13741.00

B: REHABILITATION AND IMPROVEMENT WORKS FOR DRIP-III

DRIP Phase-III activities will be proposed during preparation stage of that phase after reviewing the achievements of DRIP, Phase-II and hence rehabilitation and improvement proposals of DRIP, Phase-III are proposed to remain out of action for time being.

S. No.	Description of Rehabilitation and Improvement Proposals	Estimated Cost in Crore	Remarks
1	Treatment of hot spots and landslides around Bhakra reservoir by taking suitable measures	118.00	Applicability of Environmental, Forest and Himachal State Government Clearances and proposed to be undertaken in Phase-III.
2	Stabilisation measures to reduce silt ingress in Beas Dam Reservoir.	76.00	Applicability of Environmental, Forest and Himachal State Government Clearances and proposed to be undertaken in Phase-III.
	Rehabilitation and Improvement Proposals for all four dams in Phase-III	194.00	Works are proposed to be undertaken in Phase-III in six years

Note : A Purpose Driven Study: Preparation of Detailed Project Report (DPR) for management of sedimentation by formulating sediment control strategies, treatment of hot spots and landslides in vulnerable reaches around Bhakra reservoir and restoration of live storage capacity of Gobind Sagar Reservoir of Bhakra Dam. and

Purpose Driven Study: Preparation of Detailed Project Report (DPR) for management of sedimentation by formulating sediment control strategies, treatment of hot spots and landslides in vulnerable reaches around Beas Dam Reservoir and restoration of live storage capacity of Maharana Partap Sagar Reservoir of Beas Dam.

After conducting above studies, the works of DRIP-III will be finalized accordingly.



Bhakra Beas Management Board,
Sector 19-B, Chandigarh-160019.
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E-Mail: secy@bbmb.nic.in



OFFICE ORDER

No. 17 /B-1618/DRIP/DHD

Date: 30.04.2019

References:

- Secretary, Ministry of Water Resources, Government of India D.O. letter No. 07/01/2019-DSR/DRIP-2 & 3/647 dated 25.03.2019.
- Secretary, Ministry of Power, Government of India letter No. 5-20/12/2019-BBMB dated 09.04.2019.

Formation of State Project Monitoring Unit (SPMU) for Implementation of Dam Rehabilitation and Improvement Project (DRIP-II) by BBMB

Introduction

Dam Rehabilitation and Improvement Project (DRIP) is one of the leading projects of the Ministry of Water Resources, River Development and Ganga Rejuvenation, Government of India and the World Bank. This project is a State Sector Scheme with objective to improve the Dam Safety and operational performance of selected dams of the Country, with emphasis on Institutional Strengthening and system wide management improvement along with sustainable operation and maintenance. Total financial outlay for this project is about Rs 10,200 Crores with loan assistance from the World Bank of Rs 7,000 Crores.

Ministry of Water Resources, Government of India has decided to implement DRIP-II project with the assistance of World Bank. Under this scheme, BBMB is also participating with financial component of about Rs. 230 Crore for its projects. The funding arrangement for BBMB (Central Agency) is 50:50 with back to back reimbursement. The project is to be implemented over a period of 10 years in two Phases, with each phase of six year duration and an overlap of two year over each other. To carry out these activities before signing of loan agreement, BBMB is required to provide some budgetary provision generally very small of the order of Rs. 1.0 Crore to meet the official expenditure.

As DRIP-II project is being implemented with the assistance of World Bank, it is mandatory to provide various administrative arrangements as per the directives, terms & conditions of World Bank for effective Project Management. For Project Management at National level, Dam Safety Organization, Central Water Commission, Seva Bhawan, New Delhi has formed Central Project Monitoring Unit

(CPMU). Accordingly, formation of State Project Monitoring Unit (SPMU) was under consideration of BBMB at Central Agency level.

Thus, BBMB has constituted State Project Management Unit (SPMU) for monitoring DRIP-II project and is as follows:

Composition of SPMU (BBMB) – for DRIP-II Project

Sr. No.	Position Under SPMU	Designation & Office address	Contact No.	E-mail ID
A.	Nodal Officer	Chief Engineer, Bhakra Dam, Nangal.	01887-223001	cebhd@bbmb.nic.in
B.	Project Director	Director, Dam Safety, Nangal.	01887-223178	dirdamsafety@bbmb.nic.in
C.	Dam Manager	SDE, Dam Safety, Nangal.	01887-223140	dirdamsafety@bbmb.nic.in
D.	Director Technical	Director/Design, B&B Design Dto, Nangal. (Sr. No. i to iv will work under the supervision of Director Technical).	01887-223108	dirdgnngl@bbmb.nic.in
i)	Database Expert	ADE, Design Directorate, Nangal.	01887-223142	
ii)	GIS Expert	SDE-I, Design Directorate, Nangal.	01887-223086	designsde3@bbmb.nic.in
iii)	Civil Expert	Sr. Executive Engineer, Nangal Dam Division, Nangal.	01887-220863	xenngldam@bbmb.nic.in
iv)	Monitoring & Evaluation Expert	SDE-II, Design Directorate, Nangal.	01887-223142	designsde3@bbmb.nic.in
1.	Procurement Expert (Goods & Consultancy)	Superintending Engineer/BDC, Nangal.	01887-223017	sebdc@bbmb.nic.in
2.	Mechanical Expert	Sr. Executive Engineer, Bhakra Mechanical Division, Nangal.	01887-223117	xenmechngl@bbmb.nic.in
3.	Electrical Expert	Sr. Executive Engineer, Bhakra Electrical Division, Nangal.	01887-223084	xenelectngl@bbmb.nic.in
4.	Hydrology Expert	Sr. Executive Engineer, Hydrology Division, Nangal.	01887-223083	xenhydro@bbmb.nic.in
5.	Computer Operator/ Data Entry (4 Nos.)	Will be hired on contract basis as per requirement.		
6.	Account Officer	Account Officer, Pension, o/o Dy. CAO, Nangal.	01887-223098	sopension@bbmb.nic.in
7.	Assistant Account Officer	Assistant Account Officer, Centralized Salary Section, o/o Dy. CAO, Nangal.	01887-223256	

Sl. No.	Position Under SPMU	Designation & Office address	Contact No.	E-mail ID
8.	Environment Expert	Will be deputed later on		
9.	Social Expert	Will be deputed later on		
10.	Technical Consultant	Will be hired on contract basis as per requirement of BBMB.		

Note: For SPMU, Senior Executive Engineer, Nangal Dam Division, Nangal will also work as Drawing and Disbursing Officer (DDO).

Role & Responsibilities of SPMU shall be as follows:

- 1) Overall project planning, management and coordination
- 2) Monitoring and Evaluation.
- 3) Overall procurement administration.
- 4) **Contract management**, financial management, budget planning & control and fund distribution.
- 5) Planning and Management of Training and Study tours
- 6) Financial, Technical, Social & Environmental auditing and liaising on all project related matters with CWC, World Bank and other interested Government and Non Governmental Groups.

This issues with the approval of Chairman, Dhakra Doo Management Board.

Secretary

Date: 30.04.2019

Endsl. No. 1857 - 77 /B-1618/DRIP/DHD

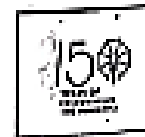
Copy of above is forwarded to the following for information:

1. Secretary, Ministry of Water Resources, Government of India, New Delhi w.r.t. his office D.O. letter No. 07/01/2019-DSR/DRIP-2 & 3/647 dated 25.03.2019.
2. Sh. Kundan Kumar, Under Secretary to Government of India, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi w.r.t. his office letter No. 5-20/12/2019-BBMB dated 09.04.2019.
3. Director, Dam Safety Organisation, Central Project Monitoring Unit (CPMU), Central Water Commission, Sewa Bhawan, New Library Building, R.K. Puram, New Delhi -110068.
4. All Chief Engineers of Irrigation Wing of BBMB.
5. FA & CAO, BBMB, Chandigarh.
6. Concerned Officers and Controlling Officers.

Sd/-
Secretary



Bhakra Bass Management Board,
Sector 19-B, Chandigarh-160019.
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OFFICE ORDER

No. : 39 /B-1618/DRIP/DHD

Dated: 23.09.2019

In terms of Secretary, Ministry of Water Resources, Government of India D.O. letter No. 07/01/2019-DSR/DRIP-2 & 3/647 dated 25.03.2019 and Under Secretary, Ministry of Power, Government of India letter No. 5-20/12/ 2019-BBMB dated 09.04.2019, a Dam Safety Review Panel (DSRP) comprising of the following members is hereby constituted for implementation of Dam Rehabilitation and Improvement Project (DRIP), Phase-II & Phase-III through dam inspections and recommendations in respect of Dams under BBMB as under:

Sr. No.	Name Dr/Er/Mr	Field of Expertise	Designation in DSRP
1	Ashwin B. Pandya	Dam Safety Specialist	Chairman
2	Naresh Kumar	Design Expert	Member
3	Naresh Kumar Malhur	Hydrologist	Member
4	V.K. Maini	Hydro-mechanical Expert	Member
5	Prasanta Mishra	Geologist	Member
6	I.D. Gupta	Seismic Expert	Member
7	Arvind Kumar Sharma	Project Coordinator, SPMU cum Director, Dam Safety	Convener and Member Secretary

1. The SPMU of BBMB will coordinate with the DSRP for meetings/inspections of BBMB Projects included under DRIP in consultation with Chief Engineer(s) of respective project. The concerned Chief Engineer(s) would render full assistance to the Committee during its visits and inspections at project sites.
2. The Committee would start the work immediately and complete the exercise in respect of the projects of BBMB within the stipulated period.
3. Dam Safety Review Panel constituted by BBMB for Dam rehabilitation and improvement project will review all dams included in DRIP-II as per para "Guidelines For Safety Inspection of Dams" January 2018, published by Central Water Commission, Gol New Delhi and will suggest necessary remedial measures for rehabilitation and improvement of the dam and its appurtenant structures.

4. The Chief Engineer(s) of concerned project will prepare and submit a detailed memorandum/agenda of proposed works comprising of all technical details/specifications, relevant design aspects, drawings, estimated cost etc to DSRP/SPMU.
5. The SPMU of BBMB and concerned Chief Engineer(s) will coordinate with the DSRP after the issue of this memorandum with a target to complete the inspections and submission of their Dam Safety Review Reports and Design Flood Review Report (DFR) if required to Board Office.
6. The Chief Engineer(s) of concerned project will prepare Project Screening Templates (PST) based on DSRP report and Design Flood Review Report (DFR) with all technical and financial details for onward submission of same by SPMU to CPMU through Board office.
7. The concerned Chief Engineer(s) will draft tender documents /Technical Bid Documents for the works suggested by DSRP for submission of same to SPMU which will further submit the same to CPMU/World Bank through Board Office as per Threshold limits. However first tender document will get approved from the World Bank irrespective of any threshold limit.
8. The concerned Chief Engineer(s) will ensure the publication of NIT/RFP, evaluation of bids for submission to Board office through SPMU and after approval of competent authority, the works will be awarded for execution.
9. The DSRP will inspect such work as when it required ascertaining that the works are in progress as per DSRP's suggestions.
10. During any evaluation by DSRP, one or more experts from the required disciplines may be included as additional member of DSRP team for facilitating sufficiency and for meeting need based requirements of domain expertise for specific inspections. In special circumstances, based on recommendations of DSRP Chairman, more experts shall also be included in the team as special invitees.
11. The DSRP will remain operational till the completion of the DRIP (Phase-II and Phase-III) Project.
12. Remunerations shall be paid for the Chairman as well as other members of Dam Safety Review Panel (DSRP) as under:

➤ Remuneration as setting fee for independent DSRP members (other than employed with Central/State Deptt./PSUs).	➤ Rs. 7500/- per day for each day of Block visit undertaken by the DSRP team. Journey days of DSRP (restricted to one day before and one day after the block period of the visit shall be permissible for remuneration if the journey is beyond the block period).
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<p>> Air Train Travel.</p>	<p>> Economy Class by any Airline for any journey by air. > First Class AC for train travel</p>
<p>> Lodging, Boarding and local transportation during period of block visit.</p>	<p>> DSRP shall be treated as project guests during their inspection visits and they shall be provided INB BOARDING lodging etc.</p>
<p>> Members of the DSRP employed with Central/State Deptt./PSUs.</p>	<p>> The travelling allowance and daily allowance shall be regulated as per Government regulations in force for Class-I officers. > BBMB officers shall be paid TA/DA as per rules.</p>

The payment to the Members shall be made by the concerned Chief Engineers during the visit of the Committee to their respective Project(s). The GST, if applicable, shall be paid by the concerned Chief Engineers of BBMB.

13. The entire expenditure required for carrying out the site visits & meetings with SPMU and DSO, preparation of Dam Safety Review Report for each dam by Dam Safety Review Panel (DSRP) and the remuneration fee for DSRP Chairman and Members would be borne to the budget under DRIP.

This issues with the approval of Chairman, BBMB.

[Signature]
Secretary 25/9/19

Endst. No. 4598-49 /B-1616/DRIP/DHD

Dated: 23.9.2019

A copy of the above is forwarded to the following:-

1. Chief Engineer/Bhakra Dam, BBMB, Nangal Township.
2. Chief Engineer/Beas Dam, BBMB, Talwara Township.
3. Chief Engineer/BSL Project, BBMB, Gurdernagar.
4. Special Secretary, BBMB, Chandigarh for treating DSRP as Project Guest during their inspection visits.
5. Er. Arvind Kumar Sharma, Member Secretary - cum- Director, Dam Safety, BBMB, Nangal. He shall coordinate with DSRP and SPMU to maintain all the records and submission of Reports.
Director/Designs, Bhakra & Beas Design Directorate, BBMB, Nangal Township.
Er. A.B. Pandya, Former Chairman, CWC, D-2, Sahyadri Apartments, 9-A, I.P. Ext., Delhi-110032, Email: abpandya@yahoo.co.uk,
Mob No. 9910264141.
8. Er. Naresh Kumar, Former Chief Engineer, CWC, A-8 /20B, Sahara Grace Apartments (Behind Sahara Mall) Sector 28, - M.G. Road, Gurugram (Gurgaon, Haryana, PIN-122002, Email: nk@sws@gmail.com,
Mob No. 9810522998.

श्री सुरेश
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I. (स)
निदेशक

[Signature]
24/9/19

9. N.K. Malhur, Former Member CWC G 602 CGRC, DDU Marg, New Delhi 110002, Email: malhur_nk@yahoo.com, Mob No. 9818472745.
10. V.K. Maini, 703, Sanskriti Apartment, Sector-46, Faridabad - 121003 Email: vk_maini@yahoo.com, Mob No. 8717052208.
11. Prasanta Mishra Vaishnu Apartment, 189 Majhi Para Road, Thakurpukur, Kolkata - 700063, West Bengal, India, Email: pmishragsi@gmail.com, Mob No. 9433070388 / 9582597855.
12. Dr. ISHWER Datt Gupta, Row House No. 4, Suncity Housing Society Vadgaon Budruk, Pune 41105 Email: ldarh4@gmail.com, Mob No. 9423008130.
13. A.K.Sharma, Director, Dam Safety, BBMB, Nangal, Email: dirdamsafety@bbmb.nic.in, Mob No. 9463998230.

S/
Secretary

CC:-

1. Secretary, Ministry of Water Resources, Government of India, New Delhi w.r.t. his office D.O. letter No. 07/01/2019-DSR/DRIP-2 & 3/8-17 dated 25.03.2019.
2. Sh. Kundan Kumar, Under Secretary to Government of India, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi w.r.t. his office letter No. 5-20/12/2019-BBMB dated 09.04.2019.
3. Director, Dam Safety Organisation, Central Project Monitoring Unit (CPMU), Central Water Commission, Sewa Bhawan, New Library Building, R.K. Puram, New Delhi -110088.
4. Member/Irrigation, BBMB, Chandigarh.
5. Member/Power, BBMB, Chandigarh.
6. FA&CAO, BBMB, Chandigarh w.r.t. his U.O. No.1711B/2019/Vol-I/3048 dated 18.09.2019.
7. Officer on Special Duty /Tech. to Chairman, BBMB, Chandigarh.
8. Director/Security, BBMB, Chandigarh. He shall arrange permits after obtaining requisite clearance and provide other logistic support to the Committee Members. Project Coordinator, SPMU cum Director, Dam Safety, BBMB, Nangal shall give advance intimation to the Director/Security about the visits of Committee on the Project(s).
9. Dy. Secretary (Coordination), BBMB, D-II, 47, Kaka Nagar, New Delhi (Phone: 011-23072049). He shall provide logistic support in the event of meeting of the committee being held at New Delhi.



भाखड़ा ब्यास प्रबन्ध बोर्ड
 मध्य मार्ग, सेक्टर-19बी, चण्डीगढ़-160019
 Tel: 0172-5011759, Fax-0172-2549857
 E-Mail: secy@bbmb.nic.in



From

Secretary

To

The Chief Engineer & Project Director,
 Central Project Management Unit (CPMU),
 3rd Floor, CWC New Library Building,
 R.K. Puram, Sector 1, New Delhi – 110066.
 E-mail : projectdr.drip-cwc@gov.in & fesadrip-cwc@gov.in

No. 1278-85 /B-1618/DRIP /DHD

Dated: 11-05-2020

Subject: Dam Rehabilitation and improvement Project (DRIP-II and III) - Creation of separate budget line for EAP (Externally Aided Project) DRIP-II Project.

In continuation to this office letter No. 1141-46/B-1618/DRIP/DHD dated 25.04.2020 on the aforementioned subject, I am directed to convey the concurrence of the FA&CAO, BBMB regarding creation of separate budget line titled 'EAP-DRIP', as under:

Major Head, Sub Head & Minor Head in respect of Establishment Expenditure and Works expenditure will function as per **Manual of Accounts Code of BBMB** and will be as follow:

a. For Establishment Expenditure:


2701	01	129 or 130	01 or 02	455	Object Head
Major Head-Irrigation Wing	Sub Major Head-Major Irrigation	Minor Head-129 Bhakra-Nangal Project of Irrigation Wing & 130-Beas Project (Unit I & II) of Irrigation Wing	Sub Heads-01 & 02 Unit No.1 Bhakra Dam & Unit II Nangal Dam 01 & 02 Unit No.1 BSL & Unit II Beas Dam	Detail Heads-Division & Other Office	Relevant Object head Three Digits

b. For Works Expenditure:

2701	01	129 or 130	01 or 02	701 or 703	501
Major Head-Irrigation Wing	Sub Major Head-Major Irrigation	Minor Head-129 Bhakra-Nangal Project of Irrigation wing 130-Beas Project of Irrigation Wing	Sub Heads-01 & 02 Unit No.1 Bhakra Dam & Unit II Nangal Dam 01 & 02 Unit No.1 BSL & Unit II Beas Dam	Detail Heads- 701 for Major Works and 703 for Maintenance Works	Expenses on Dam

It is further intimated that project wise/year wise cost of DRIP Scheme for Phase-II and sharing of partner State Government / Power Utilities with detail of works has already been intimated vide this office letter dated 28.04.2020 with request to accord sanction of requisite clearance and to make necessary budget provision in their respective budget.

This issues with the approval of the Chairman, BBMB.


Secretary 11/05/2020.

CC:

1. Chief Engineer/ Bhakra Dam-cum-Nodal Officer/DRIP, BBMB, Nangal.
2. FA & CAO, BBMB, Chandigarh.
3. Director/Dam Safety-cum-Project Director/DRIP-II, BBMB, Nangal w.r.t. his letter No. 16-20/NGL/DS/II/FL/27-DRIP-II dated 22.04.2020.
4. Deputy CAO, BBMB, Nangal for taking necessary action.
5. Sr. PS to Chairman, BBMB, Chandigarh.
6. Sr. PS to Member/Irrigation, Chandigarh.
7. Sr. PS to Member/Power, Chandigarh.

R-22011/2/2022-Pen Riv Section-MOWR

1/72688/2022

No. R-22011/2/2022-Pen Riv Section-MOWR

Government of India
Ministry of Jal Shakti
Department of Water Resources, RD&GR
(Peninsular Rivers Wing)

Room No. 353, C-Wing
Krishi Bhawan, New Delhi
Dated: 11 July 2022

To

1. Secretary,
Ministry of Power,
Shram Shakti Bhawan, New Delhi - 110001

2. Secretary,
Department of Economic Affairs,
North Block, New Delhi - 110001

Subject: - Fund flow arrangement in respect of Bhakra Beas Management Board (BBMB) and Damodar Valley Corporation (DVC) for Dam Rehabilitation and Improvement Project (DRIP) Phase - II - regd.

Sir,

I am directed to refer to subject mentioned above and to say that the fund-flow arrangement for Damodar Valley Corporation (DVC) for the World Bank assisted Dam Rehabilitation and Improvement Project (DRIP) Phase - I (implemented during April 2012 to March 2021) was facilitated utilizing the Budget Head (4701.80.800.07.03.55 - Loan and Advances) of this Department.

2. It has been decided, with the approval of Competent Authority, that the fund-flow arrangement to the two central agencies i.e. Bhakra Beas Management Board (BBMB) and DVC for the ongoing DRIP Phase - II scheme will be routed through the Ministry of Jal Shakti utilizing the existing Budget Head.

Yours faithfully,

Signed by Kanchan Bala
(Kanchan Bala Hamza)
Under Secretary to the Govt of India
Tel: - 011-23383059
Email- uspenriv-mowr@nic.in

Copy for kind information to:

1. PPS to Secretary (DoWR, RD & GR)
2. PPS to Chairman, Central Water Commission
3. PPS to Additional Secretary (DoWR, RD & GR)

R-22011/2/2022-Pen Riv Section-MOWR

1/72688/2022

4. Chairman, BBMB
5. Chairman, DVC
6. PPS to Joint Secretary (RD&PP)
7. PPS to JS&FA, DoWR, RD & GR
8. Project Director, DRIP, Phase - II & III
9. Task Team Leader, DRIP Phase - II, World Bank/ AIB
10. Budget Section, DoWR, RD & GR
11. Controller of Accounts, DoWR, RD & GR, Shastri Bhawan
12. PAD, CWC, Sewa Bhawan

Bhakra Beas Management Board,
Sector 19-B, Chandigarh-160019.
Tel: 0172-5011759, Fax-0172-2540857
E-Mail: secy@bbmb.nic.in






From Secretary
To Chief Engineer/Bhakra Dam-cum-Nodal Officer DRIP, BBMB, Nangal Township.

No.: 1219-21 /B-1618/DRIP/DHD Dated: 30.06.2022

Subject: Dam Rehabilitation and Improvement Project (DRIP-II & III)- Project wise/ Year wise cost of DRIP Scheme for Phase-II & sharing of Partner State Governments/ Power Utilities.

Reference: Your office letter No. 7858-59/BBMB/3-BD/766/19/Vol.-II dated 16.05.2022.

Approval of competent authority is hereby conveyed for opening a saving account in the State Bank of India, Naya Nangal with abbreviated Account Title as "EAP-DRIP". The account will be operated by Executive Engineer, Nangal Dam Division, BBMB, Nangal and AO/Works-I, BBMB, Nangal.

[Signature]
Secretary

Stamp: 47-2022
Date: 30/6/2022
Class: [unclear]

- CC:
1. Chief Engineer-cum-Project Director/SPMU, DRIP-II & III, Dam Safety Directorate, BBMB, Nangal.
 2. FA&CAO, BBMB, Chandigarh.

DAM SAFETY

Responded vide T/O L No 1369-73/466
DS/01/FL/27-DAP-II dt. 07/7/2022

Sl. P.O./Date	
SD/Sl. No.	
AD/Sl. No.	
Sl. Ass./Sl. No.	
CT/Sl. No.	
PA/Sl. No.	
Car./Sl. No.	
Seen	
Sl. No.	167
Date	05/07/2022

Dam Rehabilitation & Improvement Project (DRIP Phase II and Phase III)

Request to invite suggestions from partner Implementing Agencies under DRIP Phase II and Phase III for ESMF, ESCP, and SEF documents prepared by CWC to be referred for Environment and Social (E&S) safeguards during project implementation.

CWC has prepared three documents as a part of preparatory requirements of World Bank in the DRIP Phase II and Phase III. These documents contain the various guidelines and procedures to guide our Implementing Agencies (IAs) to deal with E&S issues during the project implementation. These documents are Environment and Social Management Framework (ESMF), Environment and Social Commitment Plan (ESCP), and Stakeholder Engagement Framework (SEF). These documents have been disclosed on CWC official website of DRIP <https://www.damsafety.in/>. These documents can be downloaded from the website link given below. The valuable suggestions are invited from our (IAs) which can be forwarded to dd2-drip-cwc@nic.in with a copy to projectdr.drip-cwc@gov.in.

S.No	Document	Website Link
1.	Environment and Social Management Framework (ESMF)	https://damsafety.in/ecm-includes/DRIP_II/ESMF/Draft_ESMF_CWC_Apr18.pdf
2.	Environment and Social Commitment Plan (ESCP)	https://www.damsafety.in/ecm-includes/DRIP_II/ESMF/DRIP2_ESCP_CWC_Apr18.pdf
3.	Stakeholder Engagement Framework (SEF)	https://www.damsafety.in/ecm-includes/DRIP_II/ESMF/Stakeholder Engagement Framework DRIPII_Apr18.pdf

In case, no suggestions are not received within the requested timelines, it would be treated as NIL.