

# Dam Rehabilitation and Improvement Project (DRIP)

*(Project Assisted by the World Bank, and Coordinated and Supervised by the Central Water Commission)*

## Project Template



*(Replace above photographs by photographs of concerned Project)*

**Name of the Project: -----**

**Name of SPMU: -----**

**Month & Year: -----**

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Date:

Signature of Project Director, SPMU

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*Note: This document has been prepared in MS Word 2007. The page numbers of the document are auto generated, and dynamically indexed. A new page at any location of the document can be created by command <Insert/ Page Break>. Page numbering in Index can then be updated by command <References/ Update Table>.*

Date:

Signature of Project Director, SPMU

## FORM-I: PROJECT DETAILS

### 1. Project Description:

a. Project Identification Code (PIC):

*(As given in National Register of Large Dams)*

b. Project Name:

c. River Basin:

d. Sub River Basin:

e. River/Stream:

### 2. Project Location:

a. State:

b. District:

c. Earthquake Zone:

d. Survey of India Map Reference Nos.

e. Nearest City:

f. Nearest Airport:

g. Nearest Railhead:

h. Name of immediate u/s project:

i. Name of immediate d/s project:

Attach Location Map of the Project as Appendix-IA.

Attach General Layout Plan of the Project showing major project components as Appendix-IB.

### 3. Project Benefits:

a. Type of Project:

b. Irrigation Benefits:

(i) Gross Command Area (GCA) (ha):

(ii) Culturable Command Area (CCA) (ha):

(iii) Annual Irrigation Potential (ha):

Date:

Signature of Project Director, SPMU

## c. Hydropower Benefits:

(i) Installed Capacity (MW):  (ii) Firm Power (MW): (iii) Average Annual Energy Generation (MU): 

## d. Domestic/Municipal/Industrial Water Supply:

(i) Annual Quantum of Water Supply (MCM): (ii) Details of Area and Population Benefitted: 

## e. Flood Protection:

(i) Flood Protected Area (ha): (ii) Details of Area Benefitted: f. Details of Tourism/Recreational Facilities: **4. Project Ownership Details:**a. Name of Dam owning Agency/Department/Organization: b. Name of SPMU for DRIP Implementation: c. Name of Implementing Agency: 

## d. Details of Dam in-charge:

(i) Name: (ii) Designation: (iii) Phone No. (with STD Code): (iv) Fax No. (v) E mail: (vi) Contact Address: 

Date:

Signature of Project Director, SPMU

**Appendix - IA**

**LOCATION MAP OF PROJECT**

Comments of SPMU, if any:



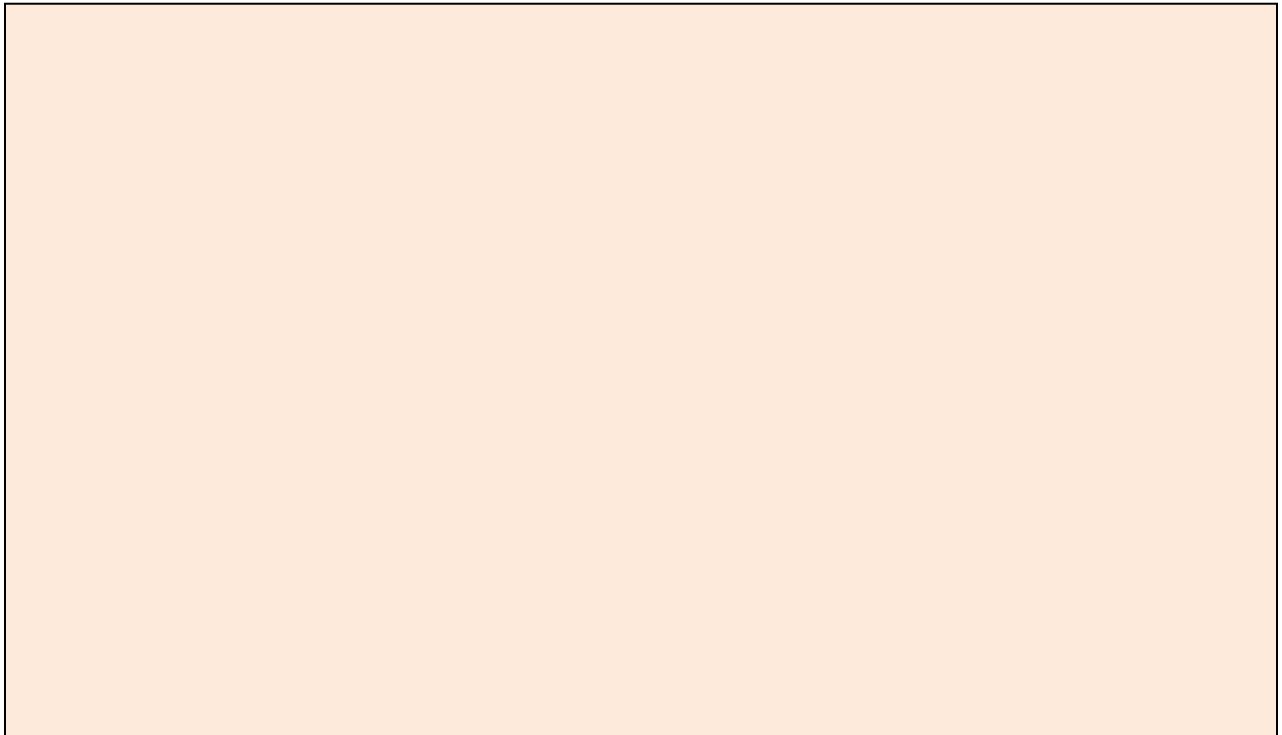
*(Please furnish the location Map below this sheet.)*

Date:

Signature of Project Director, SPMU

**GENERAL LAYOUT PLAN OF THE PROJECT**

Comments of SPMU, if any:



*(Please furnish the layout plan below this sheet.)*

Date:

Signature of Project Director, SPMU

## FORM-II: DAM SPECIFIC DETAILS

(Note: Use separate forms for each dam in case of multiple dams under one project)

### 1. Dam Features:

a. Latitude at Dam Site (mid-point of axis): Degree  Minute  Second

b. Longitude at Dam Site (mid-point of axis): Degree  Minute  Second

c. Type:

d. Length of dam at Top (m):

e. Width of Dam at Top (m):

f. Height above deepest foundation level (m):

g. Volume Content of Dam ( $10^3 \text{ m}^3$ ):

h. Main Spillway Arrangement:

(i) Type of Spillway:

(ii) No. of Bays:

(iii) Type of Gate:

(iv) Size of Gate: Height (m)  Width (m)

(v) Total Spillway Capacity of all bays ( $\text{m}^3/\text{s}$ ):

(vi) Gate Hoisting Arrangement:

(vii) Hoisting Capacity of Single Gate (T):

(viii) Energy Dissipation Arrangement:

i. Auxiliary Spillway Arrangement:

(i) Type of Spillway:

(ii) No. of Bays:

(iii) Type of Gate:

(iv) Size of Gate: Height (m)  Width (m)

(v) Total Spillway Capacity of all bays ( $\text{m}^3/\text{s}$ ):

(vi) Gate Hoisting Arrangement:

(vii) Hoisting Capacity of Single Gate (T):

(viii) Energy Dissipation Arrangement:

Date:

Signature of Project Director, SPMU



## j. Under Sluice Arrangement:

- (i) No. of Sluices:
- (ii) Size of Sluice: Height (m)  Width (m)  Dia (m)
- (iii) Maximum Head (m):
- (iv) Discharge Capacity of Sluice ( $\text{m}^3/\text{s}$ ):
- (v) Type of Gate:  (vi) Type of Hoist:
- (vii) Capacity of Hoist (T):
- (viii) Year of last operation, if not operated regularly :

k. Details of Outlet works: 

Attach longitudinal section of the dam as Appendix-IIA

Attach typical non-overflow/overflow/other cross sections of the dam as Appendix-IIB (1)/(2)....

**2. Reservoir Features:**

- a. Catchment Area at Dam site ( $\text{km}^2$ ):  b. Maximum Water Level (m):
- c. Full Reservoir Level (m):
- d. Minimum Draw Down Level (m):  e. Dead Storage Level (m):
- f. Outlet Levels, if any, specify:  g. Live Storage Capacity ( $\text{Mm}^3$ ):
- h. Gross Storage Capacity ( $\text{Mm}^3$ ) at FRL:
- i. Reservoir Spread Area ( $\text{km}^2$ ) at FRL:

**3. Construction Aspects:**

- a. Date of Starting the Construction:
- b. Date of Completion:
- c. Name of Designing Agency:
- d. Name of Construction Agency:
- e. Major accidental events/incidents if any, during construction (brief description):

Date:

1

MU

*(Give details for each major event/incident under separate number)*

**4. Operational Aspects:**

- a. Date of first full impoundment:
- b. Whether Pre & Post monsoon inspection being carried out
- c. Major recommendations of dam safety inspection, along with brief status on compliance:

1.	
2.	
3.	
4.	
5.	

*(Give details for each major recommendation under separate number)*

- d. Major accidental events/incidents if any, during project operation with brief statement of

Date:

Signature of Project Director, SPMU

remedial measures:

1	
2	
3	
4	
5	

*(Give details for each events/incidents during project operation under separate number)*

**5. Instrumentation Aspects:**

a. List of Instrumentations installed in the Dam:

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

b. Conditions of Instruments:

Date:

--

MU

c. Frequency of Observations:

d. Comments on adequacy and justification for additional instrumentation:

Attach a separate report on instrumentation including instrumentation drawings, readings, conditions of instruments, observations, and conclusions based upon collected data as Appendix -2C

**6. Previous Rehabilitation Efforts:**

Date:

Signature of Project Director, SPMU

a. Name of Scheme:

b. Period of Scheme: From  to

c. Details of Works Carried Out:

1	
2	
3	
4	
5	

*(Give details for each work under separate number)*

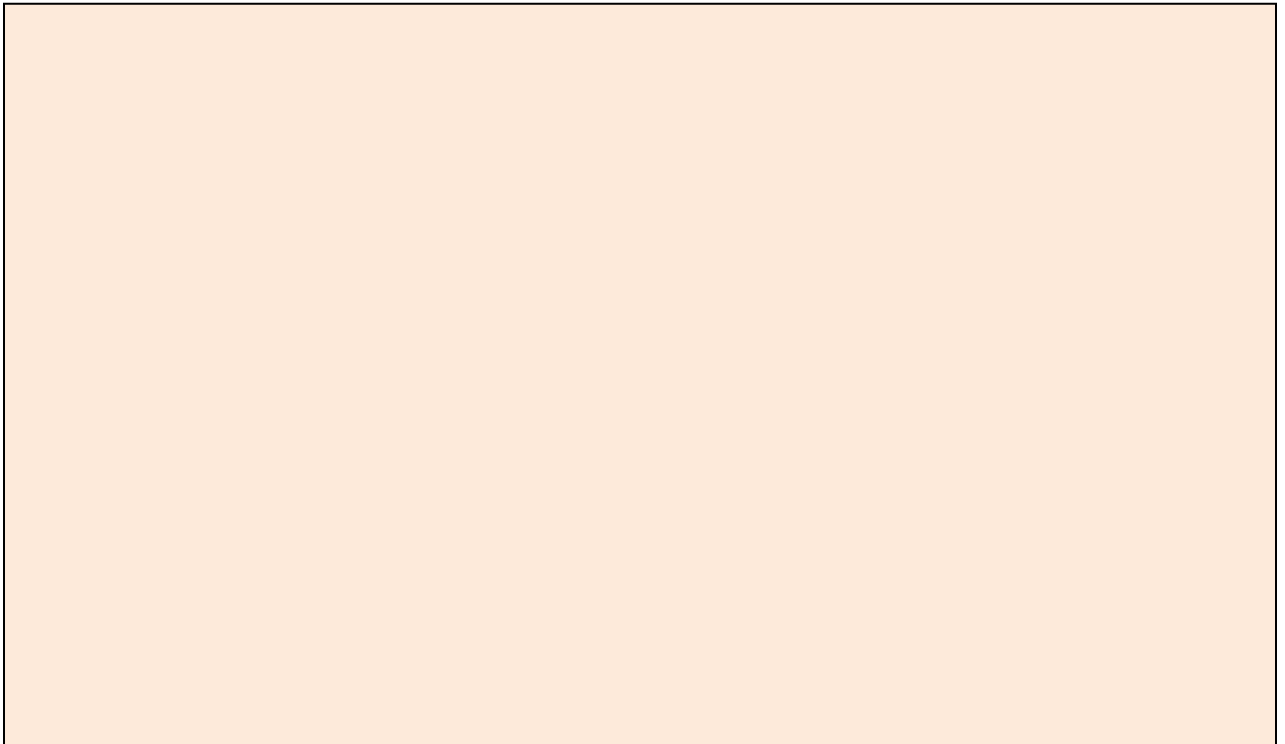
d. Cost of Rehabilitation (in Rupees):

Date:

Signature of Project Director, SPMU

**LONGITUDINAL SECTION OF THE DAM**

Comments of SPMU, If any:



*(Please furnish the L-section Drawing of Dam below this sheet.)*

Date:

Signature of Project Director, SPMU

**TYPICAL CROSS SECTIONS OF THE DAM**

Comments of SPMU, If any:



*(Please furnish the Cross-Sections Drawing of Dam below this sheet.)*

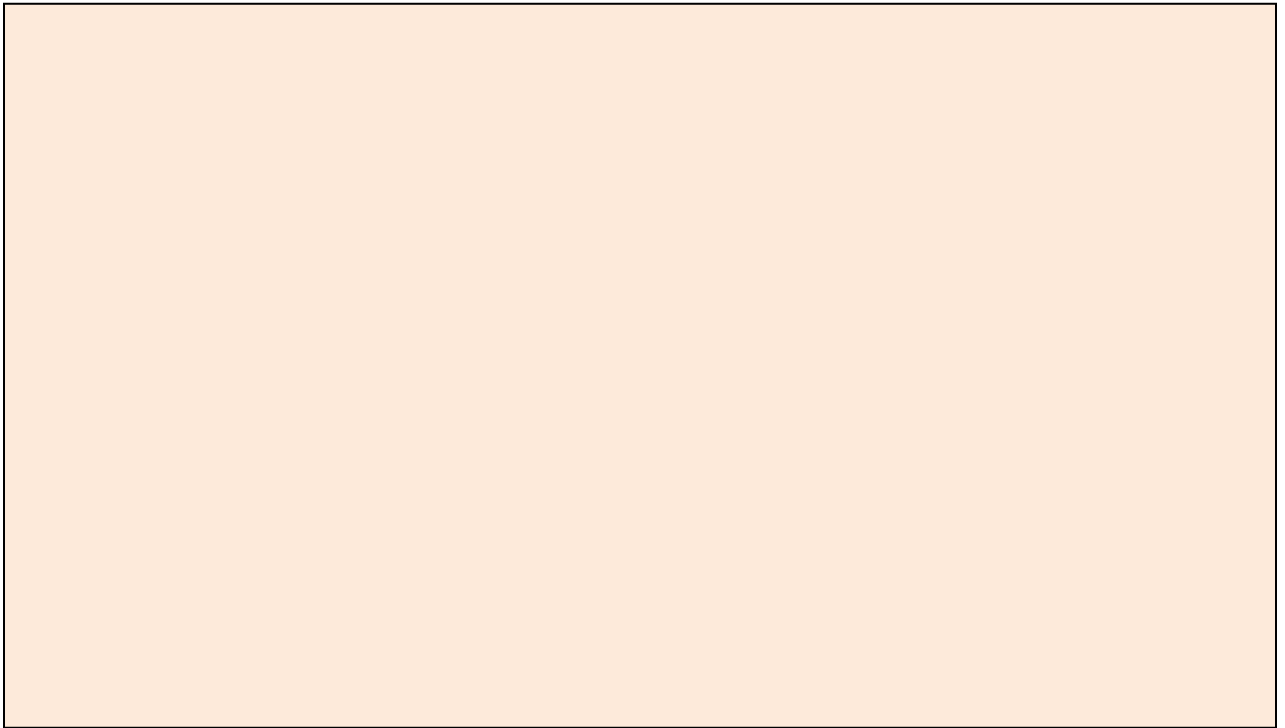
Date:

Signature of Project Director, SPMU

**REPORT ON DAM INSTRUMENTATION**

Enclosed (Yes/No):

Comments of SPMU on the Instrumentation Report, If any:



*(The full report shall be placed below this page.)*

Date:

Signature of Project Director, SPMU



## FORM-III: HEALTH STATUS OF DAMS

*(Note: Use separate forms for each dam in case of multiple dams under one project)*

### 1. Design Flood Review (As approved by CWC):

- a. Original Design Flood ( $m^3/s$ ):
- b. Date of Latest Review:
- c. Revised Design Flood ( $m^3/s$ ):

Enclose the Report of Design Flood Review as Appendix -IIIA

### 2. Dam Safety Review Panel (DSRP) Review:

- a. Date of Latest Review:
- b. Key actionable points for rehabilitation:

1	
2	
3	
4	
5	

*(Give details for each key actionable points under separate number)*

Enclose the latest report of DSRP as Appendix-IIIB

Date:

Signature of Project Director, SPMU

**3. Seismic Review:**

a. Seismic Zone at the time of Design:

b. Revised Seismic Zone:

c. Historical significant earthquake events in the near vicinity:

Event 1: Date:  Epicenter:

Magnitude:

Event 2: Date:  Epicenter:

Magnitude:

d. Details of nearest project whose site specific seismic parameter study has been approved by National Committee on Seismic Design Parameter (NCSDP):

(i) Name of Project:

(ii) Date of Approval:

(iii) Approved Parameter: Maximum Credible Earthquake (MCE):

Design Basis Earthquake (DBE):

Seismic Design Coefficient (Horizontal):

e. Whether need for seismic design review:

f. Micro seismic activity, if any

g. Reservoir Induced Seismicity (RIS)/Reservoir Triggered Seismicity (RTS), if any

#### 4. Present Distress Condition:

SI No.	Description	Earthen	Masonry	Concrete	Composite
1	Leakage through dam body		Choose an item.	Choose an item.	Choose an item.
2	Excessive seepage through dam body	Choose an item.	Choose an item.	Choose an item.	Choose an item.
3	Excessive seepage through foundation	Choose an item.	Choose an item.	Choose an item.	Choose an item.
4	Excessive settlement of dam body?	Choose an item.			Choose an item.
5	Clogging of drains holes?		Choose an item.	Choose an item.	Choose an item.
6	Undesirable vegetation?	Choose an item.			Choose an item.
7	Deteriorated Concrete-Facing, Outlet, Spillway		Choose an item.	Choose an item.	Choose an item.
8	Erosion of surfaces, slides & signs of movement	Choose an item.			Choose an item.
9	Are there any surface cracks?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
10	Adequate slope protection?	Choose an item.			Choose an item.
11	Erosion of the upstream/downstream face?	Choose an item.			Choose an item.
12	Animal Burrows?	Choose an item.			Choose an item.
13	Any evidence of piping through dam body?	Choose an item.			Choose an item.
14	Any evidence of piping through foundation	Choose an item.	Choose an item.	Choose an item.	Choose an item.
14	Are there wet spots or areas on the downstream face, at the toe, or beyond the dam?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
15	Spillway surface erosion?		Choose an item.	Choose an item.	Choose an item.
16	Can water flow into the principal spillway without difficulty, as intended when constructed?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
17	Is the primary spillway structure in good condition?		Choose an item.	Choose an item.	Choose an item.
18	If there are foundation drain outlets, are they clear and flowing?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
20	Is there any unusual movement or cracking at or beyond the toe?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
21	Is there any evidence of instability on the slopes around the reservoir?	Choose an item.	Choose an item.	Choose an item.	Choose an item.

Date:

Signature of Project Director, SPMU

22	Is a lot of sediment entering the reservoir, or has this happened in the past?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
23	Are gates/stop logs/valves and other operating equipments in working conditions?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
24	Is the drainage gallery easily accessible and does it have adequate lighting facilities?		Choose an item.	Choose an item.	Choose an item.
25	Gate corrosion		Choose an item.	Choose an item.	Choose an item.
26	Are Gate Seals showing signs of weathering, cracking or tearing?		Choose an item.	Choose an item.	Choose an item.
27	Is the surface of gates and paint deteriorated?		Choose an item.	Choose an item.	Choose an item.
28	Is the alternative power system for gate operation working properly?		Choose an item.	Choose an item.	Choose an item.
29	Are the hydraulic hoists working satisfactorily?		Choose an item.	Choose an item.	Choose an item.
30	Are the decking, girders and structural supports of spillway bridge, hoist bridge and catwalks structurally sound?		Choose an item.	Choose an item.	Choose an item.
31	Is the floor of the bridge structurally sound and safe?		Choose an item.	Choose an item.	Choose an item.
32	Is the concrete surface of the stilling basin and apron in good condition?		Choose an item.	Choose an item.	Choose an item.
33	Is access road to dam site well maintained?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
34	Are communication facilities available at dam site?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
35	Whether there is a standby power supply?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
36	Is fencing of project area required/strengthen?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
37	Is sufficient stock of spare which needs frequent replacement maintained at the site?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
38	Are the instruments installed properly accessible?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
39	Are all the instruments in proper working condition?	Choose an item.	Choose an item.	Choose an item.	Choose an item.
40	Need for repair of instrument	Choose an item.	Choose an item.	Choose an item.	Choose an item.
41	Need for replacing instruments	Choose an item.	Choose an item.	Choose an item.	Choose an item.
42	Need for additional instruments	Choose an item.	Choose an item.	Choose an item.	Choose an item.
43	Need for Stability Analysis	Choose an			Choose an

Date:

Signature of Project Director, SPMU

		item.			item.
44	Need for E/Q design review	Choose an item.	Choose an item.	Choose an item.	Choose an item.
45	Need for operational review	Choose an item.	Choose an item.	Choose an item.	Choose an item.
46	Need for pumping arrangement in Drainage Gallery		Choose an item.	Choose an item.	Choose an item.

**5. Any Other Distress Conditions, if any:**

1.

2.

3.

4.

5.

6.

*(Give details for each distress condition under separate number)*

Photographs showing details of location and nature of distress conditions as Appendix-IIIC

Date:

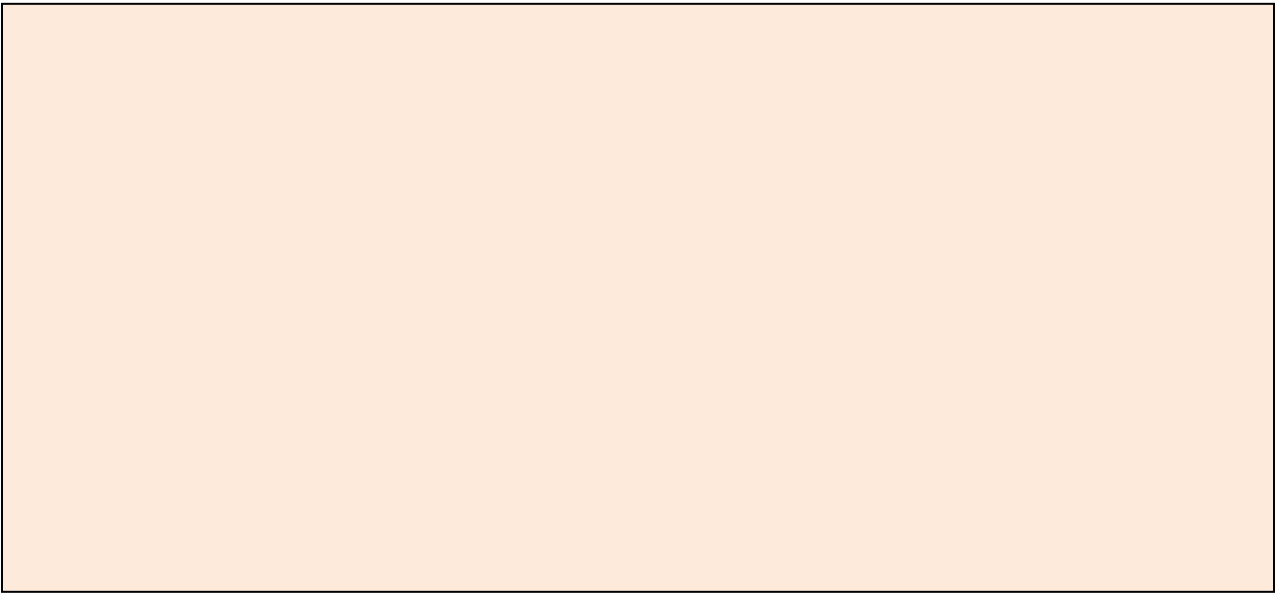
Signature of Project Director, SPMU

**REPORT OF DESIGN FLOOD REVIEW**

(In case the design review has not been completed, please leave the information blank.)

Enclosed (Yes/No):
--------------------

Comments of SPMU on report of design flood review, if any:



*(The full report shall be placed below this page.)*

Date:

Signature of Project Director, SPMU

**LATEST REPORT OF DAM SAFETY REVIEW PANEL (DSRP)**

Enclosed (Yes/No):

Comments of SPMU on report of DSRP, if any:



*(The full report shall be placed below this page.)*

Date:

Signature of Project Director, SPMU

**Appendix-IIC****PHOTOGRAPHS SHOWING DISTRESS CONDITION**

SI No.	Date of Photograph	Description with details of location, nature of distress and other remarks
1		
2		
3		
4		
5		

(Attach Plates with two photographs per Plate indicating the SI. No. of photograph)

Date:

Signature of Project Director, SPMU



## FORM-IV: REHABILITATION PROPOSALS

*(Note: Use Separate Sheet if required)*

### 1. Structural Rehabilitation Measures:

(List all the items identified for the structural rehabilitation)

1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

*(Give details for each structural measure under separate number)*

Date:

Signature of Project Director, SPMU

## 2. Non-structural Measures:

(List out such proposed non-structural measures as: Revision of Reservoir Operation Parameters, Preparation of Emergency Action Plan (EAP), Setting up of Warning System, Real-time Inflow Forecasting System, Catchment Area Treatment, Carry out Risk Analysis etc.)

1.
2.
3.
4.

*(Give details for each non-structural measure under separate number)*

## 3. Basic Facilities Enhancement:

(List out such proposed basic facilities as: Construction and Improvement of approach roads, Construction and Improvement of Bridges and Culverts, Construction and Improvement of Fencing, Forest area / vegetation clearance, Improving office housing and related accommodation, stockpiling of emergency materials etc.)

1.
2.
3.
4.

*(Give details for each facility under separate number)*

Date:

Signature of Project Director, SPMU

**4. Tourism/Fisheries/Hydropower Development:**

1.	
2.	
3.	

*(Give details for each item of development under separate number)*

**5. Latest Estimated Cost of Rehabilitation Proposal (in Rs.):** 

Attach Cost Estimate of Rehabilitation proposals as Appendix-IVA

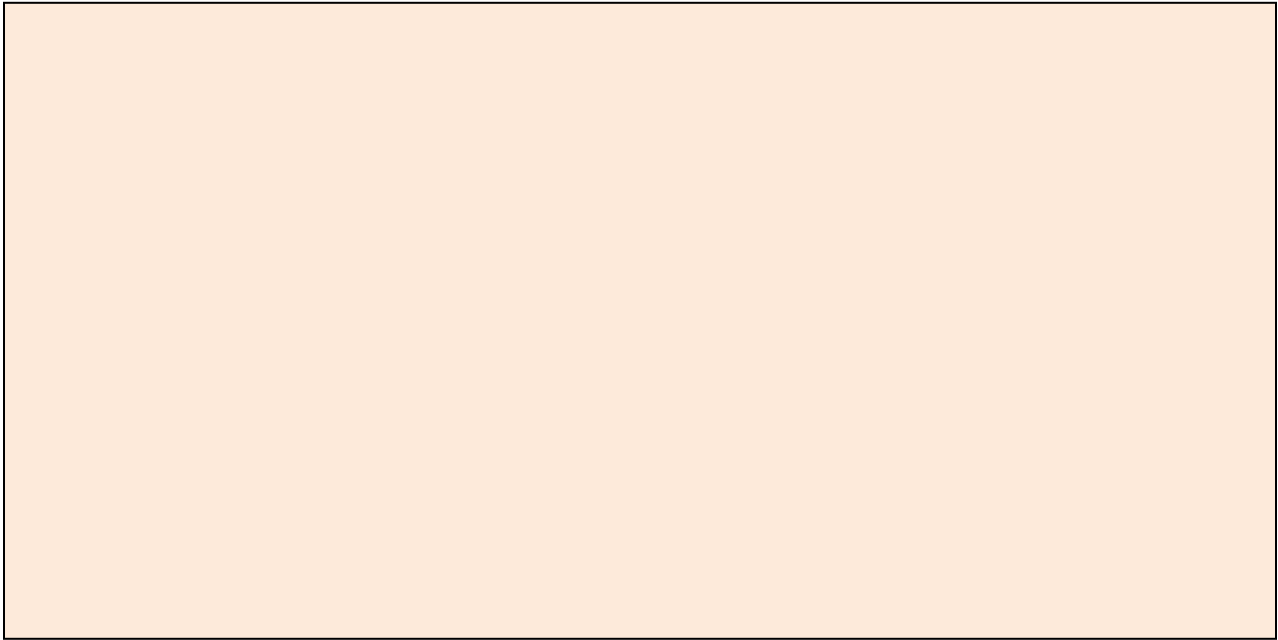
Attach Details of Work Packages/Consulting assignment/Procurement of Goods, Works etc. as Appendix -IVB

Date:

Signature of Project Director, SPMU

**COST ESTMATE OF REHABILITATION PROPOSAL**

Comments on Cost Estimate of Rehabilitation Proposal, if any:



*(Please furnish the cost estimate below this page.)*

Date:

Signature of Project Director, SPMU

## FORM-V: ENVIRONMENTAL AND SOCIAL MANAGEMENT FRAMEWORK (ESMF) COMPLAINT

### 1. Identification of activities having potential environmental and social impact (as per FORM SC\_1 of ESMF):

1	<input type="text" value="Choose an item."/>
2.	<input type="text" value="Choose an item."/>
3.	<input type="text" value="Choose an item."/>
4.	<input type="text" value="Choose an item."/>
5.	<input type="text" value="Choose an item."/>

Enclose Completed FORM SC-1 as Appendix-VA

### 2. Identification of activities having potential environmental and social impact (as per Form SC-2 of ESMF) and categorization (as per Form SC-4 of ESMF)

	Components	Categorization
1	<input type="text" value="Choose an item."/>	<input type="text" value="Choose an item."/>
2.	<input type="text" value="Choose an item."/>	<input type="text" value="Choose an item."/>
3.	<input type="text" value="Choose an item."/>	<input type="text" value="Choose an item."/>
4.	<input type="text" value="Choose an item."/>	<input type="text" value="Choose an item."/>
5.	<input type="text" value="Choose an item."/>	<input type="text" value="Choose an item."/>

Date:

Signature of Project Director, SPMU

Enclose Completed FORM SC-2, SC-3, SC-4 as Appendix-VB, Appendix-VC and Appendix- VD,

**3. Whether Requirement of Specific Environment Management Plan (EMP) proposed:**

Choose an item.

(a) If Yes, tentative time frame of ESMF Study:

From:

To:

**4. Whether mitigation measures have been identified as per FORM SC-5:**

Enclose Completed FORM SC-5 as Appendix- VE,

**5. Whether mitigation measures are required to be implemented by Contractor:**

Date:

Signature of Project Director, SPMU

## Appendix-VA

## Form SC-1:Screening of ESMF Activities

Sl. No	ESMF activity	Put mark if applicable	Responsibility
1	Reservoir Desiltation	Choose an item.	Field Engineer from ID
2	Tourism Development	Choose an item.	
3	Approach road, dam crest roads, etc. construction / improvement	Choose an item.	
4	Hydropower Generation	Choose an item.	
5	Standby Generator	Choose an item.	
6	River Regradation	Choose an item.	
7	Flood Protection Network	Choose an item.	
8	Wind Mill & Solar Power	Choose an item.	
9	Treatment of leakage through masonry and concrete dams and reduction of seepage through earth dams and their foundations	Choose an item.	
10	Improving Dam Drainage	Choose an item.	
11	Structural strengthening of dams to withstand higher earthquake loads	Choose an item.	
12	Remodeling earth dams to safe, stable cross sections	Choose an item.	
13	Improving toe drain and seepage measuring devices	Choose an item.	
14	Improving ability to withstand higher floods including additional flood handling facilities, if needed.	Choose an item.	

Date:

Signature of Project Director, SPMU

<b>Sl. No</b>	<b>ESMF activity</b>	<b>Put mark if applicable</b>	<b>Responsibility</b>
15	Repairs to damaged spillways, stilling basins and downstream channels	Choose an item.	Field Engineer from ID
16	Improving dam safety instrumentation	Choose an item.	
17	Improving communications – real-time as much as possible – between dams, upstream rain/river flow gauging stations and with other dams, control offices and civil authorities in flood plains downstream of the dam	Choose an item.	
18	Flood marking	Choose an item.	
19	Low voltage electrical supplies in inspection and drainage galleries	Choose an item.	
20	Improving lighting for external areas of dams	Choose an item.	
21	Inspection launches provision	Choose an item.	
22	Rehabilitation / Improvement of Spillway, head regulator and draw-off gates and their operating mechanisms	Choose an item.	
23	Repair / Modification of Spillway Gates	Choose an item.	
24	Cleaning of foundation drain & porous drain	Choose an item.	
25	Repair and cleaning of irrigation outlets	Choose an item.	

Date:

Signature of Project Director, SPMU



## Appendix-VB

### Form SC-2: Screening of Components

Sl. No	Components associated with ESMF activity	Put mark if applicable	Responsibility
1.	Acquisition of forest land	Choose an item.	Field Engineer from ID
2.	Borrow materials/ area	Choose an item.	
3.	Quarry materials / area	Choose an item.	
4.	Blasting	Choose an item.	
5.	Dredging/Desiltation	Choose an item.	
6.	Resettlement and Rehabilitation	Choose an item.	
7.	Labour Camps	Choose an item.	
8.	Heavy machinery	Choose an item.	
9.	Hot mix plant	Choose an item.	
10.	Concrete mixture and heavy pumps	Choose an item.	
11.	Material handling and storage	Choose an item.	
12.	Temporary land acquisition	Choose an item.	
13.	Tree felling/ vegetation clearance	Choose an item.	
14.	Haulage of machinery	Choose an item.	
15.	Debris Disposal	Choose an item.	
16.	Transport of materials	Choose an item.	
17.	Small tools and pumps	Choose an item.	
18.	Sheds to keep machines and tools	Choose an item.	

Date:

Signature of Project Director, SPMU

**Appendix-VC**

**FORM- SC-3: SCREENING OF ADVERSE (ENVIRONMENTAL AND SOCIAL) IMPACTS**

Activity	Component	Impact	I	P
	1			
	2			
	3			
	4			
	5			
	1			
	2			
	3			
	4			
	5			
	1			
	2			
	3			
	4			
	5			
	1			
	2			
	3			
	4			
	5			
	1			
	2			
	3			
	4			
	5			
	1			
	2			
	3			
	4			
	5			

Date:

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**Appendix-VD****Form SC-4: Screening and Categorisation of Components**

Sl. No	Environmental and Social Components	A	B	C
1.	Acquisition of forest land	Choose an item.	Choose an item.	Choose an item.
2.	Borrow materials/ area	Choose an item.	Choose an item.	Choose an item.
3.	Quary materials / area	Choose an item.	Choose an item.	Choose an item.
4.	Blasting	Choose an item.	Choose an item.	Choose an item.
5.	Dredging/Desilting of reservoir	Choose an item.	Choose an item.	Choose an item.
6.	Resettlement And Rehabilitation	Choose an item.	Choose an item.	Choose an item.
7.	Labour Camps	Choose an item.	Choose an item.	Choose an item.
8.	Heavy machinery	Choose an item.	Choose an item.	Choose an item.
9.	Hot mix plant	Choose an item.	Choose an item.	Choose an item.
10.	Concrete mixture and heavy pumps	Choose an item.	Choose an item.	Choose an item.
11.	Material handling and storage	Choose an item.	Choose an item.	Choose an item.
12.	Temporary land acquisition	Choose an item.	Choose an item.	Choose an item.
13.	Tree felling/ vegetation clearance	Choose an	Choose an	Choose an

Date:

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		item.	item.	item.
14.	Haulage of machinery	Choose an item.	Choose an item.	Choose an item.
15.	Debris Disposal	Choose an item.	Choose an item.	Choose an item.
16.	Transport of materials	Choose an item.	Choose an item.	Choose an item.
17.	Small tools and pumps	Choose an item.	Choose an item.	Choose an item.
18.	Sheds to keep machines and tools	Choose an item.	Choose an item.	Choose an item.

Date:

Signature of Project Director, SPMU

**Appendix-VE**

**FORM SC - 5: SCREENING FORMAT FOR IDENTIFICATION OF SUITABLE MITIGATION MEASURES**

SI No.	Component	Potential Impacts	Mitigation Measures	Executing Responsibilities	Supervising Responsibilities	Monitoring Responsibilities
<b>Implementation Phase</b>						
			• • • •			
			• • • • •			
			• • • • • •			
			• • • • • •			
<b>Post Implementation Phase</b>						
			• • • • •			
			• • • • • •			
			• • • • • •			

Date:

Signature of Project Director, SPMU

## FORM:VI -IMPLEMENTATION ARRANGEMENT

### 1. Civil Works-Main Package:

(a) Work Components

1	
2.	

(Give details for each work component under separate number)

(b) Procurement Method: Choose an item.

(c) Estimated Cost of Package (in Rupees):

### 2. Civil Works-Other Packages:

Sl No.	Description	Procurement Method	Estimated Cost (Rs.)
1		Choose an item.	
2		Choose an item.	

### 3. Procurement of Goods:

Sl No.	Description	Procurement Method	Estimated Cost (Rs.)
1		Choose an item.	
2		Choose an item.	
3		Choose an item.	

### 4. Consultancy Assignment:

Sl No.	Description	Procurement Method	Estimated Cost (Rs.)
1		Choose an item.	
2		Choose an item.	
3			

Date:

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## 5. Implementation Timeline:

(a) Overall Phasing of Project Implementation:

Proposed Starting of implementation:

Proposed Ending of implementation:

Implementation Duration (months):

(b) Timeline phasing of implementation:

Sl. No.	Description	From (Month/Year)	To (Month/Year)	Status of Procurement Process
1	Civil Work – Main Package			
2	Civil Works –Other Work 1. 2.			Choose an item. Choose an item.
3	Procurement of Goods 1. 2. 3.			Choose an item. Choose an item. Choose an item.
4	Consultancy Assignment 1. 2.			Choose an item. Choose an item.

Date:

Signature of Project Director, SPMU