

प्रेषक,

मुश्ताक अहमद,
संयुक्त सचिव,
उत्तर प्रदेश शासन।

सेवा में,

प्रमुख सचिव,
सिंचाई अनुभाग-2,
उत्तराखण्ड शासन, देहरादून।

सिंचाई एवं जल संसाधन अनुभाग-4

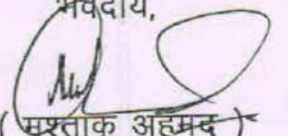
लखनऊ, दिनांक ²² फरवरी, 2018

विषय: उत्तराखण्ड राज्य की परिसम्पत्तियों के अन्तर्गत जामरानी बांध परियोजना हेतु उत्तर प्रदेश एवं उत्तराखण्ड राज्य के मध्य समझौता पत्र (MOU) के सम्बन्ध में।

महोदय,

कृपया उपर्युक्त विषयक अपने पत्र संख्या-2394/सा0/2017(2)-II-17(06)/2015, दिनांक 25 अक्टूबर, 2017 का सन्दर्भ ग्रहण करने का कष्ट करें, जिसके द्वारा जमरानी बांध के निर्माण के सम्बन्ध में उत्तर प्रदेश एवं उत्तराखण्ड राज्य के मध्य होने वाले समझौता पत्र (MOU) के ड्राफ्ट को सम्बन्धित अधिकारियों से हस्ताक्षरित कराकर सक्षम स्तर का अनुमोदन प्राप्त करते हुए समझौता पत्र (MOU) की प्रमाणित छायाप्रति आपको आवश्यक कार्यवाही आपको उपलब्ध कराने हेतु श्री शाह नवाज, सहायक अभियन्ता, जमरानी बांध निर्माण खण्ड द्वितीय, हल्द्वानी, उत्तराखण्ड को हस्तगत कराकर उनके माध्यम से प्रेषित की जा रही है।

संलग्नक:-यथोक्त।

भवदीय,

(मुश्ताक अहमद)
संयुक्त सचिव।

संख्या-2806(1)/17-27-सिं0-4, तददिनांक

प्रतिलिपि प्रमुख अभियन्ता एवं विभागाध्यक्ष, सिंचाई एवं जल संसाधन विभाग, उ0प्र0, लखनऊ को ड्राफ्ट की प्रति सहित आवश्यक कार्यवाही हेतु प्रेषित।

आज्ञा से,


(मुश्ताक अहमद)
संयुक्त सचिव।

JAMRANI DAM MULTIPURPOSE PROJECT

MEMORANDUM OF UNDERSTANDING
between
Government of Uttar Pradesh
and
Government of Uttarakhand

अवधिपूर्वक प्रतिलिपि

28/10
(संकेत प्रसाद)
अनुभाग अधिकारी,
सिंचाई एवं जल संसाधन अनुभाग-4

MEMORANDUM OF UNDERSTANDING (MoU)

This Memorandum of Understanding (MoU) is made at.....on the.....day of..... 2017.

BETWEEN

The Governor of Uttarakhand through Sri ANAND BARDHAN Secretary

/Principal Secretary, Department of Irrigation, Government of Uttarakhand (Hereinafter referred to as "Govt. of UK", which expression shall unless repugnant to the context, be deemed to include his successors in office)

AND

The Governor of Uttar Pradesh through Sri SURESH CHANDRA Secretary/Principal Secretary, Department of Irrigation, Government of Uttar Pradesh

(Hereinafter referred to as "Govt. of UP", which expression shall unless repugnant to the context, be deemed to include his successors in office) Party means either party of this MOU

Parties means both parties of the MOU)

WHEREAS:

Govt. of Uttarakhand in co-operation with Govt. of Uttar Pradesh plans to develop, construct, finance, operate and maintain multipurpose project named JAMRANI DAM MULTIPURPOSE PROJECT located in District. Nainital, in the State of Uttarakhand (Hereinafter referred to as Project).

The development of the project was initiated by the Government of Uttar Pradesh (Go UP) in 1973 and its first stage of the project was completed in year 1981.

The Construction on the Jamrani Project will be started only after obtaining the clearances from all the relevant Ministries/Organizations/Agencies etc..

D. The proposed power potential of the Jamrani project (14MW) shall be utilized by Uttarakhand.

E. 130.60m High Roller compacted concrete gravity dam is proposed on the river Gola having gross storage capacity of 208.60MCM to meet drinking and irrigation water requirement along with 14MW installed power potential.

The salient features of the proposed project are annexed to this MoU.

The updated cost of the project on 2015 price level works out to Rs. 2350.56 Crore. The break-up of the cost is as:

	Crore Rs.
A. Cost of Works of Unit-1 st	2085.56
B. Cost of Distribution Works in Uttarakhand	155.63
C. Cost of Power plant, Civil Works	109.37
TOTAL	2350.56

अधीक्षण अभियन्ता
म मण्डल, सिंचाई एवं जल संसाधन विभाग, बरेली

अधीक्षण अभियन्ता
(कै. अ. ल. उ. प्र.)
म मण्डल, सिंचाई एवं जल संसाधन विभाग, मुरादाबाद

मुख्य अभियन्ता (शारदा)
सिंचाई एवं जल संसाधन विभाग, उत्तर प्रदेश, बरेली

मुख्य अभियन्ता
म मण्डल, सिंचाई एवं जल संसाधन विभाग, उत्तर प्रदेश, मुरादाबाद

मुख्य अभियन्ता (पूर्वी गंगा)
सिंचाई एवं जल संसाधन विभाग, उत्तर प्रदेश, मुरादाबाद

मुख्य अभियन्ता एवं विभागाध्यक्ष
प्रमुख अभियन्ता एवं विभागाध्यक्ष
मुख्य अभियन्ता एवं विभागाध्यक्ष

The cost of the drinking water, irrigation & power sectors suggested by Planning Commission is as under:

	Crore Rs.
(i) Urban development Sector 25% of item (A)	521.39
(ii) Irrigation sector 50% of item (A) plus 100% of item (B)	1198.41
(iii) Power Sector 25% of item (A) plus 100% of item (C)	630.76
TOTAL	2350.56 Crore

The Hydrological and Irrigation Planning Studies finalized by CWC are acceptable to both the states. Sharing of cost between the States shall be in proportion to the water requirements i.e. 57 % of State of Uttar Pradesh, hereinafter referred to as "Uttar Pradesh" and 43 % of State of Uttarakhand referred to as "Uttarakhand". Accordingly, the share of Uttar Pradesh shall be 57 % of Irrigation sector except the cost of Distribution System in Uttarakhand, which is as below:

57 % of [Item (ii)- Item(B)]
 57 % of (1198.41-155.63)
 57 % of 1042.78
 = 594.38 crore.

The final cost of the project shall be recalculated after completion of the project. All actual expenditure and sharing of the cost will remain in the ratio of 57% by Go UP and 43% by Go UK.

In a meeting between the Chief Secretaries of Uttar Pradesh and Uttarakhand, held on 02.02.2015 at New Delhi. Uttar Pradesh gave its consent for construction of Jamrani Dam and it was decided that the:

The Jamrani Dam project should be declared as National Project.

The Actual availability of water regarding drinking and irrigation purposes shall be assessed.

c) After fulfilling the requirement of drinking water for Haldwani City, remaining water shall be made available to Uttar Pradesh to fulfill its present requirement. Balance water shall be distributed in proportion to irrigation potential of the states.

अधीक्षण अभियन्ता
 राम मण्डल, सिचाई कार्य
 बरेली

अधीक्षण अभियन्ता
 सिचाई कार्य मण्डल, मुरादाबाद

मुख्य अभियन्ता
 अजय कुमार
 जल संसाधन संगठन

मुख्य अभियन्ता
 सिचाई एवं जल संसाधन विभाग
 उत्तर प्रदेश, मुरादाबाद

- d) The cost of land shall be revised as per Right to fair compensation & Transparency in Land Acquisition Rehabilitation and Resettlement Act 2013.
- e) The Cost of the Project, calculated on 2015 price index be revised on current price index.

Consequently, a meeting of officers of both the states was held on 09.02.2015 at Moradabad and Bareilly on 26.02.2015. During the discussions, both the States agreed that the provisions made in DPR were in order, except the drinking water demand, for which the officers of both the states made a consensus for 42.70MCM instead of 52.93 MCM as proposed in DPR based on the guidelines issued by Ministry of Urban Development, New Delhi, May 1999. The priorities of the utilization of the available water was also decided as:-

The drinking water requirement on the actual basis or 42.70MCM whichever is less, shall be the first priority.

The second priority shall be given to the present irrigation demand of two systems of Uttar Pradesh i.e.

(a) 118 MCM shall be supplied to Rohilkhand Canal Division, Bareilly through Gola Barrage.

(b) Water required to irrigate Cultural Command Area (CCA) of Rampur district (63% of UP's CCA) shall be supplied through Haripura and Baur reservoirs.

iii) The water from Jamrani Dam and Gola Barrage shall be supplied to Uttarakhand, as being made available presently, if any shortfall, shall be met as third priority.

iv) Lastly, after fulfilling the (i),(ii)& (iii) priorities, the balance water shall be distributed proportionately as per project provision i.e. 57% to Uttar Pradesh & 43% to Uttarakhand, based on each monsoon year.

The distribution/regulation of the available water of the Jamrani Dam/Gola Barrage

shall be carried out jointly by the Uttar Pradesh and Uttarakhand States.

Meeting of officers of both the states were again held on Dehradun on 3.11.2016 in the office of Engineer-in-Chief, Irrigation Department, Uttarakhand, Dehradun. The following points came up during the discussions:

i) The officers of U. P. Irrigation Department raised the issue of the water depth

which was stated 3.58 m. for Uttarakhand and 0.945 m. for U.P. In this regard it

(कृ. रत्न उता)
अधीक्षण अभियन्ता

मुख्य अभियन्ता (शारदा)
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, बरेली

मुख्य अभियन्ता
जल संसाधन संगठन

मुख्य अभियन्ता (पूर्वी गंगा)
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, मथुरा

was decided that a further meeting shall be held in the first week of December 2016. Consequently on 17.12.2016, a meeting was held in the office of Chief Engineer (East Ganga), Moradabad between the officers of the states. In the meeting, the water depth for the States was sorted out as 1.90m and 0.495m for Uttarakhand and Uttar Pradesh respectively.

In the meeting, both the states agreed that there is no need to review the proportionate distribution of water between the two states which is 57percent and 43percent for Uttar Pradesh and Uttarakhand respectively, as finalized by Central Water Commission, New Delhi in October 2013.

- ii) A high power joint committee of officers of both the states be formed, instead of an independent control board, for regulation and distribution of water from the dam.
- iii) Governing laws and interpretation of MoU shall be governed by the laws of India.
- iv) Both the states shall make efforts to declare Jamrani Dam Project a National Project.

Now therefore, this MoU witnesses as follow:-

Article: - 1- COMMENCEMENT AND DURATION

- 1.1 This MoU shall commence and be effective from the date of signing of this MoU by both the parties (commencement date) & upto the termination of this MoU (as per Article 7.7).

Article: - 2- OBLIGATIONS OF Go UK

- 2.1 Go UK shall be responsible for the design, construction, supervision, management, and the timely completion of the civil works related to the project.
- 2.2 Go UK shall take insurance cover with respect to its personnel working on the project and equipment and property at the project site.
- 2.3 Go UK shall ensure compliance of local and state laws and other relevant laws including labour laws and regulation by the contractors with respect to project site and its personnel.
- 2.4 To ensure timely payment to the contractors Go UK shall submit quarterly fund requirement for the entire period of construction to Go UP. Go UP shall make

15/12/16
अधीक्षक अभियन्ता
बन मण्डल, सिंचाई कार्य
दरौली

11/10/16
(के.एच.शर्मा)
अधीक्षक अभियन्ता
सिंचाई कार्य मण्डल, मुरादाबाद

11/10/16
(अ.जय कुमार)
मुख्य अभियन्ता
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, बरेली

11/10/16
(मोहन शर्मा)
मुख्य अभियन्ता
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, मुरादाबाद

available funds three months in advance as per fund plan to cater to the projected fund requirement for the payment to the contractors.

- 2.5 Go UK shall be responsible for discharging all obligations regarding construction of civil works.
- 2.6 "Go UK" shall construct their own distribution system in its boundary and shall bear its cost.

Article: - 3- OBLIGATIONS OF Go U.P.

- 3.1 In consideration of Go UK discharging its obligation under this MoU "Go UP" shall pay Rs.594.38 crore (as per updated Detail Project Report cost on 2015 price index). The cost of project as and when revised shall be paid with immediate effect on demand by "Go UP" proportionately. The final cost of the project shall be recalculated after completion of the project on actual expenditure and the sharing of cost shall be in proportion to percentages as above (57%).

"Go UP" shall construct their own distribution system in its boundary and shall bear its cost.

Article: - 4- DISTRIBUTION/REGULATION OF WATER

- 4.1 The distribution/regulation of the available water of the Jamrani Dam/Gola Barrage shall be carried out jointly by the Uttar Pradesh and Uttarakhand States.

Article: - 5- RESOLUTION OF DISPUTES

- 5.1 The parties agree that every dispute, difference of question which may arise at any time between the parties herein out of or in connection with this MoU or the subject matter thereof, including the validity and interpretation of this MoU (Herein after referred as dispute) shall be settled and resolved in accordance with the procedure laid down herein:-

Parties shall attempt for a period of 60 days after receipt of notice by other party of the existence of dispute to settle such dispute by mutual discussions, in case the dispute can not be resolved by mutual discussions, the dispute shall be referred for adjudication to a Member, designated by Chairman, Central Water Commission, Govt.

11/10/17
(शे.क.म.ग.)
अधीक्षण अभियन्ता
म मण्डल, सिंचाई कार्य मण्डल, मुरादाबाद
बरेली

11/10/17
(के.एल.गुहा)
अधीक्षण अभियन्ता

11/10/17
(अ.ज.कुमार)
मुख्य अभियन्ता (शारदा)
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, बरेली

11/10/17
अजय कुमार

मुख्य अभि.
सिंचाई विभाग
मुख्य अभियन्ता (पूर्वी गंगा)
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, मुरादाबाद

of India, and the decision of "Member" shall be binding to both the parties i.e. Uttar Pradesh & Uttarakhand.

Article: - 6- REPRESENTATION AND WARRANTIES

6.1 The parties hereby represent and warrant to each other as follows:

- That is duly established and existing under the laws of jurisdiction and has the requisite legal power and authority to enter into this MoU to perform and comply with its duties and obligations under this MoU.
- That this MoU constitutes legal, valid and binding obligations enforceable against it in accordance with the terms hereof.
- That the execution, delivery and performance of this MoU has been duly authorized by all requisite actions and will not constitute a violation of (i) any statute, judgment, order, decree of regulation of any court, government instrumentalities of arbitral tribunal applicable or relating to itself, its assets or its functions or (ii) any other document or to the best of its knowledge any indenture, contract or agreement (means instructions & information for tenders, general and specific conditions, drawing including bill of quantity and tender prices the formal agreement and all addenda and attachments related to it.) to which it is a party or by which it may be bound.
- That there are no actions, suits or proceedings pending or threatened against it before any court, Government Instrument ability or arbitral tribunal that restrain it from performing its duties and obligations under this MoU, and
- That no representation or warranty made herein contain any untrue statement.

Article: - 7- MISCELLANEOUS PROVISION

7.1 Amendments

The terms of this MoU may only be amended, supplemented, waived or modified by written agreement signed by Go UK and Go UP.

7.2 Waivers

Any failure on the part of any party hereof to exercise, and may delay on the part of the party in exercising any right or remedy hereunder shall not operate or be construed as a waiver thereof. A single or a partial exercise of any right or remedy shall not preclude any other or further exercise thereof or the exercise of any other right or remedy. The rights or remedies to the parties hereunder are cumulative and not exclusive of any right or remedies provided by law.

अध्यक्ष अभियन्ता
म मण्डल, सिंचाई
वरेली

अध्यक्ष अभियन्ता
म मण्डल, सिंचाई

अध्यक्ष अभियन्ता
म मण्डल, सिंचाई

अध्यक्ष अभियन्ता
म मण्डल, सिंचाई

7.3

Severability

Any law restraining the validity and enforceability of any provision of this MoU shall not affect the validity or enforceability of the remaining provisions hereof and this MoU shall be deemed as not containing the invalid provisions. The remaining provisions of this MoU shall remain in full force and effect, unless the invalid or unenforceable provision comprises an integral part of or otherwise is inseparable from the remaining MoU. In such a case, the parties to this MoU shall attempt to agree on a provision, which is valid and enforceable and similar to the original provision.

7.4

Notices

Any notice approval, consent and/or other notification required or permitted to be given hereunder shall be in English and shall be personally delivered, or transmitted by registered post with postage fully paid, or transmitted by e-mail or facsimile to the address specified below or to such other address as may, from time to time, be given by each party to the other party in writing and in the manner herein before provided, any notice, approval, consent and other notification required or permitted to be given hereunder shall be deemed to have been given on the date of receipt when personally delivered, on the date seven days after having been posted when transmitted by registered airmail or on the date of transmission with confirmed answer back, when transmitted by telex or facsimile.

- Department of Irrigation. Government of Uttarakhand, Yamuna Colony, Dehradun.
- Department of Irrigation. Government of Uttar Pradesh, Lucknow.

7.5

Assignment

(a) No party may assign or transfer all or any part of its rights or obligations under this MoU.

(b) This MoU shall not confer any right of suit or action whatsoever on any third party other than the successors of the parties to this MoU.

7.6

Governing Law

This MoU shall be interpreted, construed and governed by the laws of India and high courts of both the States.

7.7

Termination

This MOU can be terminated with the mutual consent of both the States.

11.11.17
(के.के. सैंगर)
अधीक्षण अभियन्ता
मण्डल, सिंचाई
बरेली

11.11.17
(के.एच. उहा)
अधीक्षण अभियन्ता

11.11.17
(ओम नर)
मुख्य अभियन्ता (शारवा)
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, बरेली

11.11.17
अजय कुमार
मुख्य अभियन्ता
जल संसाधन संगठन

मुख्य अभि., उत्तर प्रदेश
सिंचाई विभाग
मुख्य अभियन्ता (पूर्वी गंगा)
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, मुरादाबाद

Article:-8- INTERPRETATION

- (a) This MoU shall be treated as original and primary evidence of the understanding arrived at between the parties.
- (b) This MoU constitutes the whole and is the only 'understanding' as on date hereof between the parties with respect to the subject matter described herein.

IN WITNESS WHEREOF the parties hereto have set and subscribed their respective signatures to this MoU on the date first above mentioned.

For and on behalf of
Governor of Uttarakhand.

For and on behalf of
Governor of Uttar Pradesh

WITNESSES:-

Uttarakhand 1. (Sanjay Kumar Singh)
सहायक अभियन्ता
जमरानी बांध निर्माण खण्ड-2
हल्द्वानी (नैनीताल)

2. (SHAH NAWAZ)
सहायक अभियन्ता
जमरानी बांध निर्माण खण्ड-2
हल्द्वानी (नैनीताल)

Uttarakhand 1. (संयुक्त सचिव)
सिंचाई एवं जल संसाधन विभाग
उ० प्र० शासन।

2. (संयुक्त सचिव)
सिंचाई एवं जल संसाधन अनुभाग-4
उ० प्र० शासन।

(के. रमेश कुमार)
अधीक्षण अभियन्ता
सिंचाई कार्य मण्डल, मुरादाबाद
पंचम मण्डल, सिंचाई कार्य
मण्डल।

(अजय कुमार)
मुख्य अभियन्ता (शारदा)
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, गोरखपुर

अजय कुमार
मुख्य अभियन्ता
जल संसाधन, संगठन

(वी०के० गौरी)
मुख्य अभियन्ता (पूर्वी मंडल)
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, मुरादाबाद

MoU between Govt. of U.P. and Govt. of Uttarakhand 8

(भूपेन्द्र शर्मा)
उपमुख्य अभियन्ता एवं विभागाध्यक्ष

Salient Features of Jamrani Dam Multipurpose Project

I-. General

1- Latitude	29°16'15"E
2- Longitude	79°36'36"N
3- Topomap	65E/12
4- Location	10 km upstream of Kathgodam in Nainital Distt. , Uttarakhand
5- Village	Jamrani
6- Tehsil	Nainital
7- District	Nainital
8- State	Uttarakhand
9- Name of the river	Gola
10- Name of basin	Ganga
11- Catchment area at dam site	450 km ²

II. Hydrology

1- Average annual rainfall	2016 mm
2- Average annual yield at dam site	
a- 50 % dependable year	393.31 MCM
b- 75 % dependable year at dam site	283.06 MCM
at barrage site	377.41 MCM
3- Probable Maximum Flood	8427 cumec
a- Diversion flood	500 cumec (for hydraulic design)
b- Sedimentation rate	14.29 ha.-m/100 sq.m/year

III. Dam and spillway arrangement

1- Type	Roller compacted concrete gravity dam
2- Length of crest	480 m
3- No. of span	25 No. (23 No. 17.0m and 1 No. 18.5m & 24.0m each)
4- Maximum height above deepest foundation level (El 6.15m)	150.60 m
above river bed level (El 635m)	130.60 m
5- Crest of spillway	716.00 m
6- Width at top	10.00 m
7- Cistern length under sluice/ spillway	30.50 m
8- Top of bund level	765.60 m
9- Type of gate	Radial type
10- No. and size of gate	4 No. 8 m (W)x12m (H) for gated spillway and 2 no. 5m(W)x 7.5m(H) for under sluice
11- Discharge passing	716.00 m for gated spillway and 701.00 m for under sluice 6536 cumecs for spillway and 2036 cumecs for under sluice
13- Location	Block No. 15,16 & 17
14- Free board	2 m above MWL

13- Location

14- Free board

MoU between Govt. of U.P. and Govt. of Uttarakhand

मण्ड्य अभियन्ता (पुदी गंगा)

भाषाएँ, जल संसाधन विभाग

भूपन्द्र शर्मा गुवाहाटी एवं श्री लतादेवी शर्मा
अभिमान एवं विद्वत्पण्य पदार्थ मारुतवाट

आनयन्ती एव विभागाध्यक्ष प्रवृत्ति, मन्त्रालय

IV. Reservoir

1- Top Dam Level	765.60 m
2- Max. Water level	763.60 m
3- Full reservoir	762.00 m
4- M.D.D.L	717.47 m
5- River bed level	635.00 m
6- Gross Storage	208.60 MCM
7- Live Storage	142.72 MCM
8- Dead Storage	65.88 MCM
9- Submergence Area	428.57 ha

V. Cost of Project

1- Total cost	2350.56 crore
(i) Unit 1 work	2085.56 crore
(ii) Cost of distribution work	155.63 crore
(iii) Cost of power plant civil work	109.37 crore
2- Sharing of cost	
(A) Among departments	
(i) Irrigation 50% (50% of (i) + 100% of (ii)) =	1198.41 crore
(ii) power 25% (25% of (i) + 100% of (iii)) =	630.76 crore
(iii) Urban 25 % (25 % of (i)) =	521.39 crore
Total	2350.56 crore

(B) Between states

- (i) UP - 57% of irrigation share expect cost of distribution
 $= 57\% (1198.41 - 155.63)$
 $= 594.38$ crore
- (ii) Rest Uttarakhand = 1756.18 crore

VI. Power generation

1- Firm power	14 MW
2- Load factor	52.94%
3- Annual energy generation	63.4 MU (dependable year)

VII. Power House

1- Location	On right bank
2- Type	Surface
3- No. of size of unit	4 No.
4- Type of Turbine	Vertical Francis Turbine
5- Installed capacity	4x3.5 MW
6- Net design head	111.20 m
7- Design discharged for one unit	4.87 m ³ /sec
8- Size of power house	55.30 m x 14.00 m x 23.00 m
9- Maximum tail water level	643.00 m
10- Minimum tail water level	632.00 m

25/10/14
 (अ.म.व.स.स.स.)
 प्रमुख सचिव,
 जल एवं कारागार, सिंचाई, लघु सिंचाई,
 सैनिक कल्याण, खादक
 मालय प्रशासन, जल एवं पुरातन विभाग
 उत्तराखण्ड शासन

11/10/14
 (के.एल.उडा)
 अधीक्षण अभियन्ता

11/10/14
 (ओम.व.स.स.स.)
 मुख्य अभियन्ता (शोरनी)
 मुख्य अभियन्ता एवं विभागाध्यक्ष (शोरनी)
 मुख्य अभियन्ता (पूर्वी गंगा)
 सिंचाई एवं जल संसाधन विभाग
 उत्तर प्रदेश सरकार

24/10/14
 (अ.म.व.स.स.स.)
 प्रमुख सचिव,
 जल एवं कारागार, सिंचाई, लघु सिंचाई,
 सैनिक कल्याण, खादक
 मालय प्रशासन, जल एवं पुरातन विभाग
 उत्तराखण्ड शासन

चम मण्डल, सिंचाई कार्य
 जल संसाधन संगठन

सिंचाई कार्य मण्डल, मुरादाबाद

जल संसाधन संगठन

सिंचाई एवं जल संसाधन विभाग
 उत्तर प्रदेश सरकार

VIII. Kathgodam barrage

1- Length	81.00 m
3- Crest level of other Bays	506.50 m
4- Crest level of sluice Bays	506.50 m
5- Bed level of river downstream	502.00 m
6- Design Discharge	3250 cumec
7- Pond level	510.75 m

IX. Irrigation

1- C.C.A	1,50,027 ha
2- Area being irrigated at present	2,38,317 ha
3- Further area proposed to be irrigated	57,065 ha
4- Total irrigation area	2,95,382 ha
5- Existing average intensity of irrigation	158.85 %
6- Proposed average intensity of irrigation	196.88%
7- Total requirement of water for irrigation	416.30 MCM

X. Rehabilitation & settlement

a- No. of trees more than 20 cm in dia.	22,464
b- No. of villages affected	6
c- No. of family affected	129
d- No. of population affected	688

XI. Demand for Drinking Water

@ 117 mld for 10.65 lac population projected for the year 2051	42.70 MCM
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XII. Forest Land required

351.55 ha

XIII. Construction period

5 years

25/12/12
(अभिनेन्द बर्दान)
प्रमुख सचिव
सिंचाई एवं जल संसाधन विभाग,
लखनऊ

गृह एवं कारागार, सिंचाई,
सैनिक कल्याण, राज्य
सचिव, प्रशासन, उत्तराखण्ड शासन,
देहरादून

अधीक्षण अभियन्ता
सिंचाई कार्य मण्डल, मुन्दावा

पंचम मण्डल, सिंचाई कार्य
बरेली

(अजीत कुमार)
मुख्य अभियन्ता (शारदा)
सिंचाई एवं जल संसाधन विभाग
उत्तर प्रदेश, बरेली

अजय कुमार
मुख्य अभियन्ता
जल संसाधन संगठन

(वी०के० गौरी)
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उत्तर प्रदेश, मुन्दावा

मुख्य अभि०, स्तर-1 (धरि० एवं सो०)
सिंचाई विभाग, लखनऊ

between Govt. of U.P. and Govt. of Uttarakhand