

Status of examination of Adi Badra Dam on Somb Nadi for revival of Sarasvati Nadi and Construction of Somb-Sarasvati Barrage on river Somb on the proposal of State Govt for issuing No Objection.

- (1) The proposal for NoC was received vide Govt of Haryana letter dated 21/02/2019 for granting NOC for "Construction of Adi Badri Dam on Somb Nadi for revival of Sarasvati Nadi. The same was forwarded vide CWC letter No.28/16/2018/PA (N)/680 dated 05/03/2019, to ISM Dte for examination.
- (2) The observations of ISM Dte vide letter dated 18.03.2019 were sent to UYRB vide CWC letter No. 28/16/2018-PA(N)/713-14 dated 20/03/2019 .Observations/comments of UYRB vide letter No. UYRB/Tech-7/2019/1142 dated 12.07.2019, mentioning that UYRB has no objection as long as the share of riparian States of allocated Yamuna water is not affected, was communicated to State Govt vide CWC letter dated 02.08.2019.
- (3) Subsequently, following DPR's in respect of Saraswati River were received vide DoWR, RD & GR letter No. T-21011/3/2019-GW Section dated 12.07.2019.
  - (i) The project report pertain construction of Adi Badri Dam on Somb Nadi for revival of Sarasvati Nadi.
  - (ii) Project estimation for linking of Markanda River to Sarasvati River by revival of Kainthala supply channel.
  - (iii) Construction of Somb-Saraswati Barrage and Saraswati Reservoir
  - (iv) Project estimate for revival of Sarasvati River from RD101000 to RD 0 and its tributaries.
  - (v) Project Estimate for revival of Saraswati River from RD 0 to RD 101000 of Old Saraswati drain.
  - (vi) Project estimate for Rejuvenation of Saraswati River/creek from KM 0 to 37.83.
- (4) The DPRs were forwarded to UYRB for observations /comments vide letter dated 02.12.2019 along with the comments/ observations of ISM (letter dated 20.11.2019). The observations of UYRB vide letter dated 20.12.2019 were communicated to State Govt vide letter dated 09.01.2020. Compliance from State Govt is awaited.
- (5) Consultancy for Design & Drawing of Adi Badra Dam, Somb Sarswati barrage on river Somb and their appurtenant works is being done in CWC by the D&R wing. The Status in this regard is enclosed as Annex-I.



भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन नदी विकास एवं गंगा संरक्षण विभाग  
केंद्रीय जल आयोग  
परियोजना मूल्यांकन (ऊ०) निदेशालय



Government of India  
Ministry of Jal Shakti  
Dept. of Water Resources, RD&GR  
Central Water Commission  
Project Appraisal (North) Directorate  
dated: 02.12.2019

No. 28/16/2018-PA(N)/ 1646- 50

To,

Member-Secretary,  
UYRB,  
R K Puram, New Delhi.

**Sub: Combined Project report for Revival of Saraswati Nadi.....Reg**

Sir,

This has reference to the meetings on 14.11.2019 and 15.11.2019 under the Chairmanship of Chairman CWC wherein the following projects were discussed.

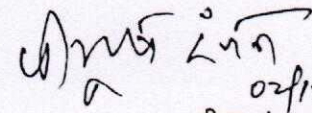
1. Construction of Adi Badri Dam on Somb Nadi for revival of Saraswati Nadi.
2. Project estimation for linking of Markanda River to Saraswati River by revival of KSC.
3. Construction of Somb-Sarawati Reservoir.
4. Project estimate for revival of Saraswati River from RD 101000 to RD 0
5. Project estimate for revival of Saraswati River from RD 0 to RD 101000 of Old Saraswati drain.
6. Project estimate for Rejuvenation of Saraswati River / creek from KM 0 to 37.83.

In this regard please find enclosed herewith the comments of ISM-2 Dte., CWC dated 20.11.2019 on inter-state aspects of above 6 projects for information and necessary action. The above 6 DPRs have already been e-mailed on 14.11.2019.

This issues with the approval of CE (PAO), CWC.

संलग्न: उपरोक्त

भवदीय

  
02/12/19  
पीयूष रंजन  
निदेशक

Copy for kind information to:

1. Sr PPS to Chairman, CWC, New Delhi.
2. Sr PPS to Member (WP&P), CWC, New Delhi.
3. Chief Engineer, Design(N&W), CWC, New Delhi with copies of DPR of above projects (by-email).
4. Director, Hydrology (North) dte., CWC with request to examine the above 6 DPRs which have already been e-mailed on 14.11.2019.

महाम तल (दक्षिण), सेवा भवन  
राम कृष्ण पुरम, नई दिल्ली -110066  
दूरभाष: 011-29583424,  
ई मेल: panorth@nic.in  
▲ जल संरक्षण-सुरक्षित भविष्य ▲



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▲ Conserve Water- Save Life ▲



भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन नदी विकास एवं गंगा संरक्षण विभाग  
केंद्रीय जल आयोग  
परियोजना मूल्यांकन(ऊ०)निदेशालय  
No. 28/16/2018-PA(N)/ 14-17  
To,



Government of India  
Ministry of Jal Shakti  
Dept. of Water Resources, RD&GR  
Central Water Commission  
Project Appraisal (North) Directorate  
dated 09/01/2020

The Superintending Engineer,  
Sarasvati Heritage Circle,  
Kurukshetra, Haryana

Sub.: E mail forwarding a letter from Shri Manohar Lal, Hon'ble CM (Haryana) enclosing summary of Sarasvati River Heritage Rejuvenation Projects-reg.

Sir,

Your kind attention is invited to the e mail mentioned in the subject mentioned above vide which Project Report for construction of Somb-Sarasvati Barrage Reservoir was attached for examination to this office. The Project report was forwarded to UYRB for examination. The UYRB has sent their observations vide letter No. UYRB/Tech-7/2019/1894-95 dated 20<sup>th</sup> December, 2019 (copy enclosed). The observations of UYRB are as under:

1. The Section VIII, "Interstate Issues" is not included in the scanned copy, however, it is mentioned in the index.
2. The Index Plan is not readable.
3. The scanned copy of the report is also not readable at several pages.

In view of the above, it is requested that four sets of all the six project reports as given under, for construction of Somb-Sarasvati Barrage Reservoir may be forwarded to this office so that it could be further forwarded for detailed examination.

1. Construction of Adi Badri Dam on Somb Nadi for revival of Saraswati Nadi.
2. Project estimation for linking of Markanda River to Saraswati River by revival of KSC.
3. Construction of Somb-Sarasvati Reservoir.
4. Project estimate for revival of Saraswati River from RD 101000 to RD 0.
5. Project estimate for revival of Saraswati River from RD 0 to RD 101000 of old Saraswati drain.
6. Project estimate for Rejuvenation of Saraswati River/ creek from KM 0 to 37.83.

Encl: As above

भवदीय  
  
09/01/2020  
(पीयूष रंजन / PIYUSH RANJAN)  
निदेशक / Director

प्रतिलिपि सूचनार्थः

1. Member Secretary, UYRB, West Block-I, Wing-4, GF, R.K. Puram, New Delhi w.r.t. letter no.UYRB/Tech-7/2019/1894-95 dated 20.12.2019.
2. Chief Engineer, PAO, CWC, Sewa Bhawan, R. K. Puram, New Delhi.
3. Director, ISM-2 Dte., CWC, Sewa Bhawan, R. K. Puram, New Delhi.

सप्तम तल (दक्षिण), सेवा भवन  
राम कृष्ण पुरम, नई दिल्ली -110066  
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▲Conserve Water- Save Life▲



सं०: UYRB/Tech-7/2019/1894-95

भारत सरकार

जल शक्ति मंत्रालय

जल संसाधन, नदी विकास और गंगा संरक्षण विभाग

ऊपरी यमुना नदी बोर्ड

नई दिल्ली, 20 दिसम्बर, 2019.

सेवा में,

✓ The Director,  
Project Appraisal(N) Directorate,  
Central Water Commission,  
Sewa Bhawan, R. K. Puram,  
New Delhi-110066.

Sub.: Email forwarding a letter from Shri Manohar Lal, Hon'ble CM(Haryana) enclosing Summary of Saraswati River Heritage Rejuvenation Projects-reg.

Ref.: Your office email dated 14.11.2019.

Sir,

Kind attention is invited to the email under reference on the above mentioned subject vide which Project Report for construction of Somb-Saraswati Barrage and Saraswati Reservoir was attached for examination to this office.

In this regard, it is to mention that this office had gone through the attached scanned copy of the report and following are the observations:

1. The Section VIII, "Interstate Issues" is not included in the scanned copy however, it is mentioned in the index.
2. The Index Plan is not readable.
3. The scanned copy of the report is also not readable at several pages.

It is therefore, requested to kindly arrange to provide the hard copy of the complete DPR of the project for it's examination from UYRB point of view.

This issues with the approval of Member Secretary.

भवदीय  
राहुल वाष्णीय  
(राहुल वाष्णीय)  
उप निदेशक

Copy for information to:

PPS to Member(WP&P), CWC and Chairman, UYRB.



34/2019(1)

भारत सरकार

जल शक्ति मंत्रालय

जल संसाधन नदी विकास एवं गंगा संरक्षण  
विभाग

केंद्रीय जल आयोग

अंतरराज्यीय मामले निदेशालय-2



Government of India  
Ministry of Jal Shakti  
Dept. of Water Resources, RD&GR  
Central Water Commission  
ISM-2 Directorate

**Sub:** Combined Project Report for Revival of Sarasvati Nadi - Reg

Please refer to your email dated 09.09.2019 forwarding therewith project reports/estimates in respect of revival of Sarasvati Nadi for examination from inter-state aspect :

- Construction of Adi badri Dam on Somb Nadi for revival of Sarasvati Nadi
- Project estimation for linking of markanda River to Sarasvati River by revival of KSC.
- Construction of Somb-Sarasvati Reservoir.
- Project estimate for revival of Sarasvati River from RD 101000 to RD 0 and its tributaries.
- Project estimate for revival of Sarasvati River from RD 0 to RD 101000 of old Sarasvati drain.
- Project estimate for Rejuvenation of Sarasvati River/creek from KM 0 to 37.83.

**Project Proposal:**

The combined project proposal envisages to rejuvenate Sarasvati nadi by providing perennial water to it along with other benefits such as ground water recharge, flood control, fish farming, tourism, and notional irrigation (for 2669.7 ha in Rabi season). It is proposed to construct a dam on Somb Nadi at Adi Badri, Somb-Sarasvati Barrage on Somb Nadi near village Rampur Gaiinda to divert surplus water into the Sarasvati Reservoir during monsoon period for revival of Sarasvati nadi. The proposal has other components for rejuvenation of Sarasvati nadi upto the village Uneha Chandna.

As per the project report for construction of Adi Badri Dam which was earlier examined by this directorate, 319.5 ha.m water will be stored in the reservoir of dam on Somb Nadi at Adi Badri on the inter-State border of Himachal Pradesh and Haryana. Further, Sarasvati reservoir was being constructed to store diverted water from the proposed Somb-Sarasvati Barrage d/s of Adi Badri dam. Somb-Sarasvati Barrage can divert 894 ha.m from Somb Nadi without Adi Badri dam to Sarasvati reservoir and the balance Adi Badri dam water that can be stored in the spare capacity of Sarsvati Reservoir will be 511.5 ha-m.

As per the Project Report for Construction of Somb-Sarasvati barrage and Sarasvati reservoir, gross and live storage capacity of Sarasvati reservoir are 1475.33 ha-m and 1405.5 ha-m respectively. In the absence of Adi Badri dam, it is mentioned that the total availability of water at the Somb Sarasvati barrage site at 50% dependability is 2675 ha m while only 894 ha m water will be diverted to the Sarasvati Reservoir by providing 2 Nos. Of 1000 mm dia pipes for conveyance. Availability of water from the Sarasvati Reservoir from 1<sup>st</sup> October to 31<sup>st</sup> May is mentioned as 1286.59 ha- m (Live storage capacity of 1405.83 ha.m – Reservoir Losses of 119.24 ha.m) at 50% dependability if Adi Badri dam is constructed.

Further, it is proposed to link Markanda River, a tributary of Ghaggar river to Sarasvati river by revival of Kainthla Supply Channel (KSC). The combined proposal has been examined and comments of this Directorate from inter-State aspect are as under:

**Comments:**

1. Earlier, standalone project report pertaining to construction of the Adi Badri Dam on Somb Nadi for the revival of the Sarasvati Nadi was received from PA(N) Directorate vide letter no. 28/16/2018/PA(N)/680 dated 05.03.2019 in this Directorate and same was examined and comments were issued vide letter no. 2/11/2017/ISM-2/120 dated 18.03.2019 wherein it was conveyed



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that details of the proposed Somb-Sarasvati Barrage were not appended in the report for examination. Further, this Directorate vide letter dated 11.09.2019 stated that construction of the Adi Badri Dam on Somb Nadi for the revival of the Sarasvati Nadi is only part of the combined proposal, having inter-State ramifications. It was therefore conveyed that combined proposal needs to be re-examined and comments of Upper Yamuna River Board (UYRB) may be obtained.

The combined proposal was received in this Directorate vide email dated 09.09.2019 and the same has been examined in detail. As can be seen from the description of Project Proposal it appears that more than 10 MCM water would be diverted from Somb Nadi for revival of Sarasvati nadi and therefore needs to be examined from inter-State aspect as per Guidelines for Submission, Appraisal and Acceptance of Irrigation and Multipurpose Projects, 2017.

The Project Authority may be asked to clearly specify the actual quantum of proposed diversion of water from Somb Nadi to Sarasvati reservoir and also to specify proposed water utilisation for irrigation/other proposes, if any. It is further reiterated that allocations made under MoU dated 12.05.1994 among Yamuna basin States need to be ensured and seasonal distribution approved by UYRB in its 42<sup>nd</sup> meeting dated 06 July, 2012 should not be varied until further changes are approved by UYRB in consultation with other party States. Allocation of available flows amongst the beneficiary States will be regulated by UYRB within the overall framework of the aforementioned MoU. Accordingly comments of UYRB on the project proposal may be obtained.

2. This Directorate had earlier requested to provide a copy of NOC obtained from the Govt. Of Himachal Pradesh for construction of Adi Badri dam which would submerge 88 acre land in Himachal Pradesh and another 8 acres land would also be needed in Himachal Pradesh for the dam & appurtenant works. As per letter dated 24.05.2018 of I&PH Department, Govt. of Himachal Pradesh provided by the Project Authority, the NoC for construction of Dam and Water Harvesting Structure on Som river at Adi Badri by Govt. of Haryana on Som Nadi in lower Shivalik hills was issued subject to signing of an MoU between the two Governments incorporating into it various issues related to infrastructure implementation, management and other aspects. Project Authority may be asked to submit a signed copy of MoU before taking up the execution of the Adi Badri dam.
3. As per Agreement dated 17.09.1973 between Rajasthan and Haryana on the utilisation of Ghaggar water in Nohar project by Rajasthan, while Haryana would be within its rights to construct any schemes for the utilisation of water of Ghaggar or its tributaries, it would send to Rajasthan copies/notes on such schemes for their information.

Since Markanda River is a tributary of Ghaggar River, Project Authority may be asked to send the information about linking of Markanda River to Sarasvati River by revival of Kainthala supply channel to the State of Rajasthan in view of aforementioned agreement.

4. Since the combined project proposal involves diversion of water from Ganga basin the same may be sent to FM Wing of DoWR, RD & GR, MoJS for obtaining international clearance in view of Ganga Water Treaty(1996) with Bangladesh.

This issues with the approval of Member (WP&P), CWC.

(Rajesh Kumar)  
Director

Signature Not Verified Sewa Bhawan, R.K. Puram, New Delhi  
File No. T-85013(21)/1/ISM-2/  
Dated .11.2019

Digitally signed by RAJESH KUMAR  
Date: 2019.11.20 12:47:29 IST

Member, Secretary, Upper Yamuna River Board, New Delhi



Status of the Adi Badri Dam, Somb Sarasvati Barrage Project, Haryana - "Revival of Sarasvati River", as on 28.05.2020

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- Project report on construction of Adi Badri dam and Somb Sarasvati Barrage on Somb nadi for revival of Sarasvati nadi was received on 21.08.2019 in CWC.
- A meeting was held with the project authority in the chamber of Chief Engineer, Designs(N&W), CWC. During the meeting, project authorities were conveyed the need of robust arrangement for silt exclusion considering the high silt rates as per provided report to make the project sustainable on long term basis. The data requirements along with the list of investigations were conveyed to them vide letter dated 06.09.2019. However, the information asked for has not been received from project Authorities till date.
- Subsequent to this, another meeting was held in the Chamber of Chairman, CWC, on 15.11.2019 with Project Authorities and concerned officers of CWC. Project Authority informed that Sediment study provided in the submitted DPR was not realistic as it was not based on actual data. On this, Chairman, CWC, advised project authority to recast their sedimentation chapter of the DPR on correct values of sediment and provide necessary clarifications to CWC on inter-state issues. They were advised during the meeting that they should intimate about the proposal to Govt. of Rajasthan also, in view of inter-state agreement between Rajasthan and Haryana dated 17.09.1973 on utilization of Ghaggar water.
- The revised sediment chapter was submitted to CWC on 23.12.2019, and a D.O. Letter dated 20.12.2019 was also sent by Govt. of Haryana, to Govt. of Rajasthan for intimation about the project.
- The Revised Sediment Chapter and hydrology of the project was examined in HSO Unit of CWC and their comments were issued vide letter dated 27.01.2020. Compliances of the Hydrology(N) Dte. CWC's comments were received on 30.04.2020. Subsequently, hydrology directorate has finalized the water availability series for the project vide their letter dated 12.05.2020. The project authorities had been asked vide letter dated 15.05.2020 to submit revised sedimentation study report based on the water availability series & sedimentation flow rate finalized by the hydrology directorate for examination.
- The CWC has requested Govt. of Haryana on 20<sup>th</sup> November, 2019 to submit a signed copy of MoU to CWC so that the project may be accepted from intra-state angle point of view. CWC has also sought comments of UYRB in view of MoU dated 12.05.1994. UYRB vide their letter dated 20.12.2019 has requested project authorities to submit hard copy of complete DPR of the project for examination. All these information are yet to be received.