

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPLE BENCH, NEW
DELHI

ORIGINAL APPLICATION NO.316/2022

IN THE MATTER OF:-

Dr. Sharad Gupta

--- Applicant

Versus

State of U.P. & Ors.

--- Respondents

Reply on behalf of Ministry of Jal Shakti and Central Water Commission

1. That the present matter is related to determination/demarcation of Flood Plain Zone
2. **That the** Government of Uttar Pradesh vide their letter dated 20th December 2022 and 13th February 2023 requested Central Water Commission for determination/demarcation Flood Plain Zones respectively for the following 2 stretches on river Yamuna: i) Asgarpur to Etawah ii) Shahpur to Prayagraj .
3. **That** After deliberations on proposal in CWC, a Committee under Member (RM), CWC was constituted by Chairman, CWC involving representatives from National Remote Sensing Centre (NRSC), National Institute of Hydrology (NIH), Ganga Flood Control Commission (GFCC), National Mission for Clean Ganga (NMCG), Govt. of Uttar Pradesh, DoWR, RD & GR and officials of Central Water Commission vide O.M dated 5th September 2023. On request from Govt. of U.P, Engineer-in-Chief and HoD, Irrigation and Water Resources Department, Govt. of U.P was made as Member of the Committee in place of Principal Secretary, Irrigation & Water Resources Department, Govt.. of U.P.

4. That Prior to holding of 1st meeting of Committee, the pre-requisites for taking up the study were completed in CWC by carrying out 2-D inundation mathematical model set-up, ascertaining the data requirement and also carrying out preliminary-run of the 2-D inundation model with available data sets comprising of 30 m SRTM Digital Elevation Model (DEM), discharge data of eight CWC Discharge stations and cross sections of 24 CWC sites. The outcomes of a preliminary run of 2-D inundation model in form of district-wise inundation in the affected districts by the river Yamuna were examined.
5. Thereafter, the first meeting of the Committee was held in CWC, New Delhi on 11th December 2023. Detailed deliberations on previous similar study on River Ganga from Haridwar downstream to Unnao (Uttar Pradesh), methodology to be adopted for the present study, data requirement and its availability etc. were discussed. The Committee finalized the following data requirements along with the sources of its availability as below:

Data	Source	Specifications
High Resolution DEM	CWC	LiDAR data
Water Level, Discharge, Cross-section	NWIC, UP Irrigation Department, CWC	Along study stretch, all historical data, CWC/ State sites
Embankment & structure details	U.P. Irrigation Dept	Design details & shape files/ locations
Inundation layers for date-wise events	NRSC, U.P. Irrigation Dept	Inundation layers or Raster satellite images of past events
Demarcation of Flood Plains	U.P. Irrigation Dept.	Any earlier details (preferably in shape file)
Bathymetry/ section survey Cross	CWC, NIH, Roorkee, State Govt.	Close interval cross-sections of Yamuna

During the meeting, the requirement High-Performance Computing Workstations (2 nos.) and high-resolution satellite images from NRSC were also raised. Representatives of UP Govt. confirmed that they will arrange to provide equipment/machines for the purpose of the study and requested CWC to send the proposal along with specification of machine for approval at their end. The copy of the Minutes of the meeting is annexed as **Annexure-R1**.

6. Further, the Committee also decided to constitute a Core Committee for development of Model and coordinating with various agencies involved. The Committee was mandated to evaluate both types of satellite images (resolution of 5.8 m as well as those finer than 5.8 m), before deciding on suitability of resolution.
7. That all the data available with CWC were acquired within the stipulated time viz., 15th January 2024. As far as NRSC data relating to inundation layers or raster satellite images of past events for date-wise events is concerned, repeated requests as below were made to NRSC, Hyderabad for providing the Inundation layers for date wise events sample raster data set (1m and 5.8 m) to check the resolution as cited for the proposed study. The copy Letters/Email send in this regard dt.09.01.24, 08.02.24, 11.03.24, 24.05.24 & 03.07.24 is annexed as **Anneuxre-R2 (Colly)**.
8. That the Images(data) were received on 03.07.24 from NRSC, Hyderabad. But the same was not workable. The CWC then wrote Email dt.19.07.24 conveying the NRSC, Hyderabad that there is resolution issues and the imagery is not workable. The copy of the Email dt.19.07.24 is annexed as **Annexure-R3**.
9. That as per the deliberation in the meeting dt.11.12.23 Government of U.P. were to provide various data related to River Data (Water Level, Discharge, Cross sections), Embankments & Structure details, inundation layers for date wise events, Demarcation of Flood Plains and Bathymetry/Cross Section Survey.

10. That as per the deliberation/decision in the meeting held on 11.12.23 Govt. of U.P. has to provide various data related to River Data (Water Level, Discharge, Cross Sections), Embankments & Structure details, inundation layers for date-wise events, Demarcation of Flood Plains and Bathymetry/Cross Section Survey. The same was to be provided by 15th January 2024. 2nos. of High-Performance Computing Workstations are also to be provided by the Govt. of U.P. The River Data(Water level, discharge, cross-section) has not been supplied by the Govt. of U.P. citing unavailability of such data. It is submitted that embankment & structure details(design details & shape files/locations) are yet to be received from Govt. of Uttar Pradesh. The LiDAR data for the stretch from Chillaghat to Prayagraj was received from Govt. of Uttar Pradesh after persuasions on 4th April 2024. It is submitted that data has been provided only for the last one-third stretch of the study area and is completely insufficient. It is further submitted that High Performance Computing System and full High-Resolution DEM(LIDAR data) for the complete study stretch is yet to be received from the Govt. of Uttar Pradesh. The CWC in this regard has repeatedly wrote to them to provide the required information. The various letters/Emails dt.09.01.24, 25.01.24, 12.02.24,21.02.24 & 21.03.24 is annexed as **Annexure-R4**.
11. That As per the minutes of 1st meeting dt.11.12.23, nominations to the Core Committee from all Organizations/ Institutions were to be made before 31st December 2023. However, complete nominations could only be received by 22nd March 2024. Accordingly, Core Working Group was constituted on 7th May 2024 involving members from NRSC, NIH, U.P Irrigation department and Central Water Commission and 1st meeting of Core Committee was held on 22nd May 2024.
12. That the testing and analysis of a 2-D hydrodynamic model would require the model to be run un-interruptedly for about 18-20 days during each trial. One trial run and three final runs are normally performed, which would require a total run-time of

approximately 80-85 days and a High Performance system exclusively running for these many days is therefore required. These issues were very well explained to the representative of the Govt. of U.P. during the Committee meeting and the Core Working Group meeting, highlighting the urgent need of adequate high-performance systems for performing the task. But no official communication regarding the status of the same has been received from officials from State government of Uttar Pradesh. CWC doesn't have an exclusive High Performance Computing system for this study and therefore the requirement was explained to the State government officials during the meetings.

13. As brought out above, due to lack of data and computing system which was to be provided by Govt of UP, further progress could not be achieved.
14. That the Central Water Commission took up the study for "**Flood Plain Zoning in Yamuna River**" as part of its endeavour to technically hand-hold State Government towards studies for scientific assessment of flood plain zones of river to enable to issue its notification by State Government. However, state is to take initiatives for requisite inputs to be provided for further progress in matter. State may also explore the feasibility of engaging an appropriate agency for collecting requisite data and carrying out the studies in this regard.
15. That the Central Water Commission is doing its best to complete the demarcation/determination of Flood Plain Zone. But due to the unavailability of the data and other requirements which was suppose to be provided by the State Government, it is unable to do the same.

16. It is submitted that Central Water Commission will file additional reply/report if the same is required or this Hon'ble Tribunal directs for the same.

01/08/24

For Respondent No.2 & 9

अधिकासी अभियन्ता / Executive Engineer
उपरी यमुना मंडल / Upper Yamuna Division
केन्द्रीय जल आयोग / Central Water Commission
नई दिल्ली-110016 / New Delhi-110016

Minutes of the 1st meeting of the Committee, constituted for identification & delineation of Flood Plain Zoning in River Yamuna for the stretches (i) from Asgarpur to Etawah and (ii) from Shahpur to Prayagraj)

The 1st meeting of the Committee constituted for identification & delineation of Flood Plain Zoning (FPZ) in River Yamuna for the stretches (1) from **Asgarpur to Etawah** and (ii) from **Shahpur to Prayagraj** was held under the chairmanship of Shri P.M. Scott, Member (RM), CWC on 11.12.2023 at 11.00 Hrs. at New Delhi.

The List of participants of the meeting is enclosed at Annex-1.

2. At the outset, Chairman of the Committee welcomed the participants. After a brief introduction, Chairman dwelt upon the background of the Committee. He requested representatives of UP Govt. to share the details and specifications of demarcation pillars pertaining to Ganga flood plain, to enable the Committee to take a view on the ideal specifications of pillars for the present study. He then requested Shri D.P. Mathuria, Chief Engineer, P&D, CWC & Member Secretary of the Committee to present the agenda for discussion.

2.1 Member Secretary explained the previous similar activity undertaken by CWC for River Ganga as per the direction of Hon'ble NGT. He informed Committee Members that 3 zones, namely, No Development Zone (1 in 5 year return period flood), Regulatory Zone (1 in 25 year return period flood) & Buffer Zone (1 in 100 year return period flood) correspondingly will be determined in line with the draft guidelines for Flood Plain Zoning, which are under the process of finalization. Deputy Director, RC Dte, CWC made a presentation on issues involved.

2.2 Shri Pranav Shukla, DD, RCD made a presentation (copy enclosed as Annex-2) which mainly focused on strategy adopted in earlier study pertaining to Ganga basin & takeaway from that study, proposed methodology, data requirement & availability of data etc to be adopted and data requirement etc. He further demonstrated the outcomes of a preliminary run of 2-D inundation model. In this run, 30 m. SRTM DEM was used along with discharge data of 8 CWC Discharge sites and cross sections of 24 CWC sites. The output showed district-wise inundation in the affected districts by the river Yamuna. After discussions, the Committee finalized the following data requirements along with the sources of its availability:

<u>Data</u>	<u>Source</u>	<u>Specification</u>
High Resolution DEM	FCA-II Dte, CWC	LIDAR data
Water Level, Discharge, Cross-sections	<ul style="list-style-type: none"> • NWIC • YBO, CWC • U.P. Irrigation 	<ul style="list-style-type: none"> • Along study stretch • All historical data

	Dept.	• CWC/ State sites
Embankment & structure details.	U.P. Irrigation Dept.	Design details & shapefiles/ locations
Inundation layers for date-wise events	<ul style="list-style-type: none"> • NRSC • U.P. Irrigation Dept 	Inundation layers or Raster satellite images of past events
Demarcation of Flood Plains.	U.P. Irrigation Dept.	Any earlier details (preferably in shapefile)
Bathymetry/ Cross-section survey	<ul style="list-style-type: none"> • Morphology Dte, CWC • NIH, Roorkee • State Govt. 	Close interval cross-sections of Yamuna

2.3 Shri K.H.V. Durga Rao, Group Director, NRSC informed that NRSC has developed aggregated flood extent maps for the past 20 years and the same is available freely in public domain. He was requested to provide event specific inundation layers for specified dates and high-resolution satellite images for mapping of return period-based inundation. He assured to provide event specific inundation layers. He stated that for high resolution satellite images with resolution finer than 5.8 m., such images have to be procured on payment.

2.4 Shri Anup Kumar Srivastava, ED, NMCG emphasized upon the importance of closer interval for cross-sections in the 2D model. He further asked to prepare a comparison between Highest Flood Level of stations vis-à-vis 100 year return period levels as derived from model run.

2.5 Chief Engineer (P&DO), CWC proposed that Core Working Group may be constituted, to oversee day-to-day process during the course of the study along with coordination for data sharing. Chairman of the Committee, while agreeing to the proposal, insisted to include one member from U.P. Govt.

2.6 Director (RC Dte.), CWC raised the requirement of fund for purchasing of High-Performance Computing Workstations (2 nos.) and high-resolution satellite images from NRSC. Representatives of UP Govt. stated they will arrange to provide equipment/machines for the purpose of the study and requested CWC to send the proposal along with specification of machine for approval at their end.

3. After threadbare deliberations in the meeting, the Committee decided the following:

- i. As per the request of Government of U.P., flood plain zone for River Yamuna has to be delineated in two stretches i.e. (1) from **Asgarpur to Etawah** and (ii) from **Shahpur to Prayagraj**, thus leaving out a stretch of 75 km between Etawah and Shahpur. The Committee will delineate the FPZ for the entire stretch from Asgarpur to Prayagraj, including the zone of 75 km.
- ii. For maintaining the continuity of model to be developed, the study stretch would be

- extended u/s upto Wazirabad and up to Mirzapur on d/s.
- iii. The methodology proposed for delineation of flood plain zone for River Yamuna has been accepted by the Committee.
 - iv. All the agencies shall provide the required data, as mentioned in para 2.2 above by 15th January, 2024. GFCC and NIH shall also provide the available data that may be useful in the study. Requisite information will also be shared with GFCC.
 - v. A Core Working Group, consisting of members from following directorate of CWC/ Organizations, is hereby constituted for development of Model and coordinating with various agencies involved:
 - a. River Conservation Directorate
 - b. Flood Control Application – II Directorate
 - c. Hydrology (N) Directorate
 - d. National Institute of Hydrology (NIH)
 - e. National Remote Sensing Centre (NRSC)
 - f. U.P. Irrigation

NRSC nominated Dr. A.V. Suresh Babu as Core group member. All others are requested to send the names of their representative by 31st Dec. 2023.
 - vi. The Committee will make effort to evaluate both types of satellite images (resolution of 5.8 m. as well as those finer than 5.8 m.). The suitability of the resolution will be confirmed after the evaluation.
 - vii. No discharge is required to be considered for any tributary as the upcoming discharge in the tributary is already accounted in the main channel at downstream discharge observation site. Inundation modelling has to be done only for the main channel, as per the scope of the study.
 - viii. Cut-off length of 2D model for tributaries can be limited up to 5 km.
 - ix. Govt. of U.P. shall inform, if any, minimum flood cover is required beyond channel firm banks for those areas, which do not show any inundation (particularly in Chambal ravine hilly areas)
 - x. RC Directorate, CWC will send the specification for procurement of High-Performance Computing Workstations (2 nos.) and high-resolution satellite images from NRSC to Govt of U.P.
 - xi. Details and specifications of demarcation pillars pertaining to Ganga flood plain zone will be provided by Govt of U.P.
 - xii. All the pillars for demarcating the flood plain zone would be necessarily geotagged.

The meeting ended with Vote of thanks to the Chair.

Annex-1

List of Participants for 1st meeting of Committee on Yamuna Flood Plain Zoning

Sl.No	Name of Official	Designation and Office	Remarks
1.	Sh. P.M. Scott	Member (RM), CWC	Chairman

2.	Sh. Gulshan Raj	Chairman, GFCC	Member
3.	Sh. G.K. Agarwal	Chief Engineer (YBO), CWC	Special Invitee
4.	Sh. D.P. Mathuria	Chief Engineer (P&DO), CWC	Member Secretary
5.	Sh. B.K. Karjee	Chief Engineer (FMO), CWC	Member
6.	Sh. Manoj Tiwari	Chief Engineer (HSO), CWC	Member
7.	Sh. Anup Kumar Srivastava	Executive Director (Tech), NMCG	Member
8.	Sh. K.H.V. Durga Rao	Group Director, NRSC	Member
9.	Sh. Rajesh Kumar	SJC (FM), MOJS	Member
10	Dr. P.C. Nayak	Scientist 'F', NIH	Member
11	Sh. R.K. Chaube	SE, UP IWRD	Representative of Engg-in-Chief, Govt of UP
12	Sh. N.N. Rai	Director, Hydrology (NE), CWC	
13	Sh. Deepak Kumar	Director (RC), CWC	
14	Sh. Rakesh Toteja	Director (FFM), CWC	
15	Sh. Ritesh Khattar	Director (FCA-2), CWC	
16	Sh. Shiv Raj Singh	EE, UP IWRD	
17	Sh. Pranav Shukla	Deputy Director (RC), CWC	

From: "RiverConservation Directorate" <rcddte-cwc@nic.in>
To: "sureshababu av" <sureshababu_av@nrsc.gov.in>
Cc: "director" <director@nrsc.gov.in>, flood@nrsc.gov.in
Sent: Friday, May 24, 2024 11:11:00 AM
Subject: Flood Plain Zoning in river Yamuna-reg

Kind Attention: Sh. A.V Suresh Babu, Head, Flood Mapping & Risk Assessment Division , Remote Sensing Applications Area.

Sir,

This is with reference to the 1st meeting of the core working group for Flood Plain Zoning on river Yamuna that took place on 22.05.2024. As discussed during the meeting, please find attached the following documents:

1. Shapefile of the Area of Interest (from Wazirabad to Mirzapur)
2. Minutes of the 1st meeting of the committee for Flood Plain Zoning in Yamuna that took place on 11.12.2023.
3. Copy of correspondences to NRSC requesting for data .
4. Copy of the PPT containing the proposed methodology of work in pdf.

Also, as discussed, the following information is presently required by this office:

1. A sample data set of high resolution images of 1m and 5.8 m for the study stretch (may refer to the attached copy of the letter already sent to NRSC in this regard).
2. The aggregated flood extend maps for 20 years prepared by NRSC for the state of U.P.

The dates for which the specific inundation layers shall be required will be intimated in due course.

The requisite data may kindly be sent at the earliest for further necessary action at this end.

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Thanks & Regards,

नदी संरक्षण निदेशालय/River Conservation Directorate,
 केंद्रीय जल आयोग/Central Water Commission,
 विंग 1/ Wing 1, पहली मंज़िल/ 1 st floor,
 पश्चिमी खंड-2/ West Block-2, आर. के.पुरम /R.K.Puram,
 नयी दिल्ली/ New Delhi-110066

 E-mail : rcddte-cwc@nic.in



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Thanks & Regards,

नदी संरक्षण निदेशालय/River Conservation Directorate,
 केंद्रीय जल आयोग/Central Water Commission,
 विंग 1/ Wing 1, पहली मंज़िल/ 1st floor,
 पश्चिमी खंड-2/ West Block-2, आर. के.पुरम /R.K.Puram,
 नयी दिल्ली/ New Delhi-110066

E-mail : rcdte-cwc@nic.in



From : RiverConservation Directorate <rcddte-cwc@nic.in> Wed, Jul 03, 2024 09:59 AM
Subject : Re: Flood Plain Zoning in river Yamuna-reg 9 attachments
To : sureshbabu av <sureshbabu_av@nrsc.gov.in>
Cc : director@nrsc.gov.in, flood@nrsc.gov.in

Sir,

With reference to the trailing mail on the subject cited above, it is to inform that the requested information has not yet been received in this office. As the time scheduled for completion of the study is nearing, it is requested that the information may kindly be provided at the earliest please.

Regards,

River Conservation Directorate
 West Block2, R.K.Puram
 New Delhi-66

From: "RiverConservation Directorate" <rcddte-cwc@nic.in>
To: "sureshbabu av" <sureshbabu_av@nrsc.gov.in>
Cc: "director" <director@nrsc.gov.in>, flood@nrsc.gov.in
Sent: Friday, May 24, 2024 11:11:00 AM
Subject: Flood Plain Zoning in river Yamuna-reg

Kind Attention: Sh. A.V Suresh Babu, Head, Flood Mapping & Risk Assessment Division ,
 Remote Sensing Applications Area.

Sir,

This is with reference to the 1st meeting of the core working group for Flood Plain Zoning on river Yamuna that took place on 22.05.2024. As discussed during the meeting, please find attached the following documents:

7/19/24, 5:55 PM

Email

Email

RiverConservation Directorate

Fwd: Data requirement for Flood Plain Zoning for river Yamuna

From : RiverConservation Directorate <rcddte-cwc@nic.in>
Subject : Fwd: Data requirement for Flood Plain Zoning for river Yamuna
To : flood@nrsc.gov.in

Mon, Mar 11, 2024 11:12 AM

7 attachments

From: "River Conservation Directorate" <rcddte-cwc@nic.in>
To: dmsisro@nrsc.gov.in
Sent: Monday, March 11, 2024 10:33:00 AM
Subject: Fwd: Data requirement for Flood Plain Zoning for river Yamuna

Sir,

With reference to the subject cited above, it is once again requested to kindly send the information sought , to this office at the earliest please.

Regards,

River Conservation Directorate
 West Block2, R.K.Puram
 New Delhi-66

From: "RiverConservation Directorate" <rcddte-cwc@nic.in>
To: dmsisro@nrsc.gov.in
Sent: Thursday, February 8, 2024 11:00:38 AM
Subject: Re: Data requirement for Flood Plain Zoning for river Yamuna

Ref : 1) This office e-mail dated 09.01.2024
 2) This office e-mail dated 25.01.2024

Sir,

Please refer to the trailing mails along with the attachments above. In this regard, the data requested vide this office letter dated 08.01.2024 is yet to be received in this office. Therefore, it is once again requested to kindly send the requisite data at the earliest please. It is also requested to kindly confirm the nomination of Dr. A.V.Suresh Babu , Head, Flood Mapping and Risk Assessment Division, NRSC, Hyderabad as a member of the proposed core working group .

An early action in this regard is highly solicited for further necessary action at this end.

Regards,

River Conservation Directorate
 West Block2, R.K.Puram
 New Delhi-66

From: "RiverConservation Directorate" <rcddte-cwc@nic.in>
To: dmsisro@nrsc.gov.in
Sent: Thursday, January 25, 2024 4:43:07 PM
Subject: Re: Data requirement for Flood Plain Zoning for river Yamuna

Sir,

7/19/24, 5:55 PM

Email

Please refer to this office e-mail dated 9th January 2024 on the subject cited above. In this regard, it is to inform that the data requested vide the letter therein (attached again here for ready reference) has not yet been received in this office. It is therefore requested to kindly send the requisite data at the earliest please .

Regards,

River Conservation Dte
West Block2, R.K.Puram
New Delhi-66

From: "RiverConservation Directorate" <rcddte-cwc@nic.in>
To: dmsisro@nrsc.gov.in
Cc: "Member RM" <mrm@nic.in>, "cepd cwc" <cepd-cwc@nic.in>
Sent: Tuesday, January 9, 2024 3:48:23 PM
Subject: Data requirement for Flood Plain Zoning for river Yamuna

Sir,

With reference to the Minutes of 1st Meeting for the work of 'Flood plain Zoning for river Yamuna' held on 11.12.2023 at Sewa Bhawan, CWC, New Delhi under the Chairmanship of Member(RM), a letter containing the data requirement for the abovementioned work is being attached herewith.

Thanks & Regards,

नदी संरक्षण निदेशालय/River Conservation Directorate,
केंद्रीय जल आयोग/Central Water Commission,
विंग 1/ Wing 1, पहली मंज़िल/ 1st floor,
पश्चिमी खंड-2/ West Block-2, आर. के.पुरम /R.K.Puram,
नयी दिल्ली/ New Delhi-110066

E-mail : rcddte-cwc@nic.in



--
Thanks & Regards,

नदी संरक्षण निदेशालय/River Conservation Directorate,
केंद्रीय जल आयोग/Central Water Commission,
विंग 1/ Wing 1, पहली मंज़िल/ 1st floor,
पश्चिमी खंड-2/ West Block-2, आर. के.पुरम /R.K.Puram,
नयी दिल्ली/ New Delhi-110066

E-mail : rcddte-cwc@nic.in



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Thanks & Regards,

Email

RiverConservation Directorate

Fwd: Sample data - Flood Plain Zoning in river Yamuna-reg

From : RiverConservation Directorate <rcddte-cwc@nic.in> Mon, Jul 22, 2024 11:09 AM
Subject : Fwd: Sample data - Flood Plain Zoning in river Yamuna-reg 5 attachments
To : avsureshbabuisro@gmail.com, sureshbabu av <sureshbabu_av@nrsc.gov.in>

Sir,

A comparison is done among the two satellite images provided by you in the previous mail (LISS IV 5.8 m & Cartosat 2E 1.6 m.) against the image available on Google Earth platform. It was found the resolution of both of your images is not as clear as the freely available Google Earth image resolution. The finer details like, roads, rivers, embankments can't be delineated even with Cartosat 2E 1.6 m. Hence, you are requested to provide the satellite image of very fine resolution, so that the minute geological details can be marked out from them.

Thanks & Regards,

नदी संरक्षण निदेशालय/River Conservation Directorate,
केंद्रीय जल आयोग/Central Water Commission,
विंग 1/ Wing 1, पहली मंज़िल/ 1st floor,
पश्चिमी खंड-2/ West Block-2, आर. के.पुरम /R.K.Puram,
नयी दिल्ली/ New Delhi-110066

E-mail : rcddte-cwc@nic.in

From: "RiverConservation Directorate" <rcddte-cwc@nic.in>
To: "sureshbabu av" <sureshbabu_av@nrsc.gov.in>
Cc: "cepd cwc" <cepd-cwc@nic.in>, flood@nrsc.gov.in, "durgarao khv" <durgarao_khv@nrsc.gov.in>, "sreenivas k" <sreenivas_k@nrsc.gov.in>
Sent: Friday, July 19, 2024 5:48:56 PM
Subject: Sample data - Flood Plain Zoning in river Yamuna-reg

Sir,

A comparison is done among the two satellite images provided by you in the previous mail (LISS IV 5.8 m & Cartosat 2E 1.6 m.) against the image available on Google Earth platform. It was found the resolution of both of your images is not as clear as the freely available Google Earth image resolution. The finer details like, roads, rivers, embankments can't be delineated even with Cartosat 2E 1.6 m. Hence, you are requested to provide the satellite image of very fine resolution, so that the minute geological details can be marked out from them.

Thanks & Regards,

नदी संरक्षण निदेशालय/River Conservation Directorate,
केंद्रीय जल आयोग/Central Water Commission,
विंग 1/ Wing 1, पहली मंज़िल/ 1st floor,

7/19/24, 6:08 PM

Email

Email

RiverConservation Directorate

Specification for Workstation-reg**From :** RiverConservation Directorate <rcddte-cwc@nic.in>

Wed, Feb 21, 2024 04:44 PM

Subject : Specification for Workstation-reg

4 attachments

To : Supretendent Engineer Kanpur Nagar <seiwcidupkn-up@nic.in>, Executive Engineer Bhognipur Division Lower Ganga Canal Etawah <eebdlgcirrigew-up@nic.in>, seiwckanpur@gmail.com

Sir,

Please find attached the document along with for your kind information and further necessary action please.

Regards,

River Conservation Directorate
West Block2, R.K.Puram
New Delhi-66**From:** "RiverConservation Directorate" <rcddte-cwc@nic.in>**To:** "Supretendent Engineer Kanpur Nagar" <seiwcidupkn-up@nic.in>, "Executive Engineer Bhognipur Division Lower Ganga Canal Etawah" <eebdlgcirrigew-up@nic.in>, seiwckanpur@gmail.com**Sent:** Thursday, January 25, 2024 5:03:53 PM**Subject:** Re: Data requirement for Flood Plain Zoning for river Yamuna

Sir,

Please refer to this office e-mail dated 9th January 2024 on the subject cited above. In this regard, it is to inform that the data requested vide the letter therein (attached again here for ready reference) has not yet been received in this office. It is therefore requested to kindly send the requisite data at the earliest please .

Regards,

River Conservation Dte
West Block2, R.K.Puram
New Delhi-66**From:** "RiverConservation Directorate" <rcddte-cwc@nic.in>**To:** "Supretendent Engineer Kanpur Nagar" <seiwcidupkn-up@nic.in>, "Executive Engineer Bhognipur Division Lower Ganga Canal Etawah" <eebdlgcirrigew-up@nic.in>, seiwckanpur@gmail.com**Cc:** "Member RM" <mrm@nic.in>, "cepd cwc" <cepd-cwc@nic.in>**Sent:** Tuesday, January 9, 2024 3:53:21 PM**Subject:** Data requirement for Flood Plain Zoning for river Yamuna

Sir,

With reference to the Minutes of 1st Meeting for the work of 'Flood plain Zoning for river Yamuna' held on 11.12.2023 at Sewa Bhawan, CWC, New Delhi under the Chairmanship of Member(RM), a letter containing the data requirement for the abovementioned work, along with workstation specifications are being attached herewith.

Thanks & Regards,

नदी संरक्षण निदेशालय/River Conservation Directorate,
केन्द्रीय जल आयोग/Central Water Commission,
विंग 1/ Wing 1, पहली मंज़िल/ 1st floor,
पश्चिमी खंड-2/ West Block-2, आर. के.पुरम /R.K.Puram,

7/19/24, 6:08 PM

Email

नयी दिल्ली/ New Delhi-110066

E-mail : rcdte-cwc@nic.in



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Thanks & Regards,

नदी संरक्षण निदेशालय/River Conservation Directorate,
केंद्रीय जल आयोग/Central Water Commission,
विंग 1/ Wing 1, पहली मंज़िल/ 1 st floor,
पश्चिमी खंड-2/ West Block-2, आर. के. पुरम /R.K.Puram,
नयी दिल्ली/ New Delhi-110066

E-mail : rcdte-cwc@nic.in



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Thanks & Regards,

नदी संरक्षण निदेशालय/River Conservation Directorate,
केंद्रीय जल आयोग/Central Water Commission,
विंग 1/ Wing 1, पहली मंज़िल/ 1 st floor,
पश्चिमी खंड-2/ West Block-2, आर. के. पुरम /R.K.Puram,
नयी दिल्ली/ New Delhi-110066

E-mail : rcdte-cwc@nic.in



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Specification+for+WS.pdf
127 KB



भारत सरकार /Government of India
केंद्रीय जल आयोग/ Central Water Commission
योजना एवं विकास संगठन/Planning & Development Organisation

विंग-1, प्रथम तल, पश्चिम खंड -2,
आर. के. पुरम, नई दिल्ली-110606
Email: cepd-cwc@nic.in
Dated: 12/02/2024

To,

Engineer-in-Chief and HoD,
Irrigation & Water Resource Deptt.,
Govt. of U.P.
Kanpur-2080004

विषय: Flood Plain Zoning in river Yamuna-reg

- संदर्भ: i)No. T-101036/3/2023-RC DTE dated 05.09.2023
ii)No.T-101036/3/2023-RC DTE dated 13.09.2023
iii)No. T-101015/2/2023-RC DTE dated 02.01.2024
iv)No. T-101015/2/2023-RC DTE dated 08.01.2024

महोदय,

Please refer to the letter cited under ref. i) & ii) vide which Committee was constituted by Central Water Commission for delienation & demarcation of Flood plain of River Yamuna from Asagarpur to Prayagraj on the request of Govt. of Uttar Pradesh, in which Engineer-in-Chief and HoD, Irrigation & Water Resource Deptt., Govt. of U.P. is also a Member. The 1st meeting of the Committee was held on 11.12.2023 and the Minutes of the meeting were circulated to all the Members vide letter cited at ref. iii). Pusuant to decision taken as per minutes of 1st meeting, Irrigation Department, U.P. was requested to provide the necessary data vide letter cited at ref. iv). It was also requested to send nomination for inclusion of one Member from Govt. of U.P. in the proposed Core Group which will oversee day-to-day process during the course of the study along with coordination for data sharing. Further, Govt. of U.P. was to provide the High-Performance Computing

Workstations (02 nos) for modelling study which was agreed by your representative in the 1st meeting.

2. As more than one month has already elapsed, neither the requisite data nor the nomination for the Core Group nor the Workstations have been received. Considering the Committee was constituted by CWC on specific request of Govt. of U.P., it is desirable that requisite requirement for conducting the study should be provided by Govt. of U.P. on urgent basis.

3. It is therefore, requested that requisite information/ nominations/ items may be provided immediately so that the study may be initiated and finished in time-bound manner.

Annex.: All referred letters enclosed


12.2.24

(D.P. Mathuria)

Chief Engineer (P&D) &
Member Secretary of the Committee

Copy for information to:

1. PPS to Member(RM), CWC & Chairman of the Committee



भारत सरकार /Government of India
केंद्रीय जल आयोग/Central Water Commission
नदी संरक्षण निदेशालय/River Conservation Directorate

प्रथम तल, पश्चिमी खंड 2,
आर.के. पुरम, नई दिल्ली-६६
ई-मईल: rcddte-cwc@nic.in
फोन: 011-29583836
Date: 21.03.2024

To,

The Superintending Engineer,
Irrigation Work Circle,
Kanpur-208004

Sub : Flood Plain Zoning of river Yamuna-reg

Ref : 1) No. T-101036/3/2023-RC DTE dated 05.09.2023

- 2) No. T-101036/3/2023-RC DTE dated 13.09.2023
- 3) No. T-101015/2/2023-RC DTE dated 02.01.2024
- 4) No. T-101015/2/2023-RC DTE dated 08.01.2024
- 5) No. T-101015/2/2023-RC DTE dated 12.02.2024

Sir,

In continuation to the letters cited under reference on the subject cited above, it is again requested to provide LIDAR Digital Elevation Models of the study area, from Wazirabad to Naini, U.P to this office at the earliest. It is also requested to provide a suitable nomination from your organization as Member of the Core Committee proposed for overseeing day to day process during the course of the study along with coordination for the data sharing, as decided during 1st meeting of the Committee.

Yours Faithfully,

Signed by Deepak Kumar
Date: 21-03-2024, 17:04:45
Reason: Approved
(Deepak Kumar)
Director

Copy for information to :

1. PPS to Member (RM), CWC & Chairman of the committee
2. PPS to Chief Engineer, P&D, CWC & Member Secretary of Committee
3. Engineer-in-Chief and HoD, Irrigation & Water Resource Deptt., Govt. of U.P., Kanpur