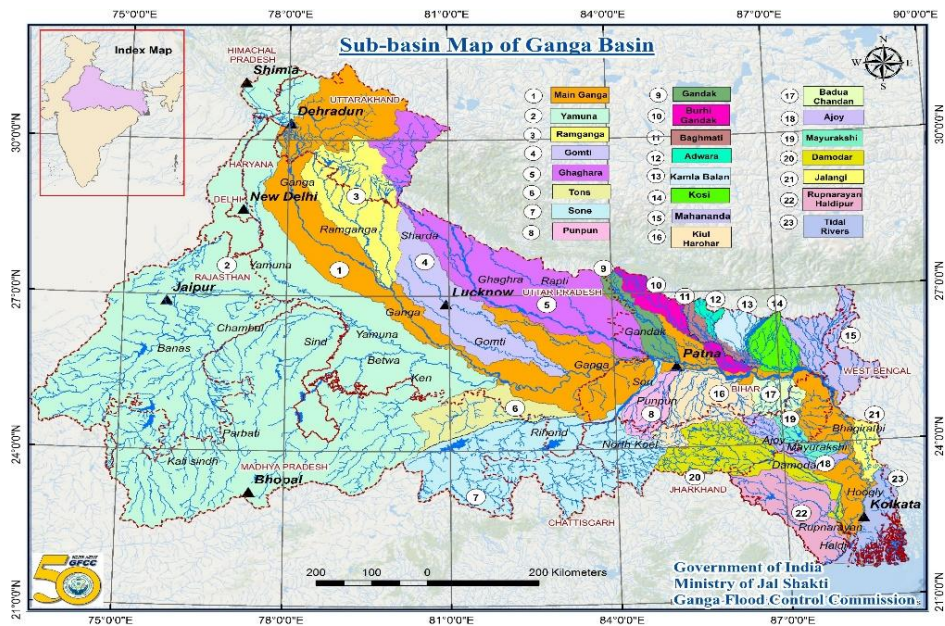


Background note of Ganga Flood Control commission

A. Ganga River Basin

- i. Two holy rivers originating from the glacial peaks of the Himalayas at an altitude of about 7000 meter, the Alaknanda and the Bhagirathi unite near Devprayag and form river Ganga which traverses its course of 2525 Km (1450 Km in Uttarakhand and Uttar Pradesh, 110 Km along Uttar Pradesh-Bihar border, 445 km in Bihar and Jharkhand and 520 km in West Bengal) before its outfall into the Bay of Bengal.
- ii. The important tributaries which join the Ganga in its course are Ramganga, Gomati, Ghaghra, Gandak, Burhi Gandak, Kosi, Kamla, Bagmati and Mahananda on the left and Yamuna, Tons, Sone, Kiul, Ajoy, Damodar, Punpun and Rupnarayan on the right.
- iii. The Ganga river drains a total catchment area of 10.68 lakh Sq. Km, out of which 8.61 lakh Sq. Km lies in India. All the major left bank rivers draining into the Ganga are of the Himalayan origin. On the other hand, out of the major right bank rivers only the Yamuna is of Himalayan origin whereas the rest of the major right bank rivers originate either from the Vindhya or the plateau between the Ganga and the Vindhya.
- iv. Ganga basin covers 11 States namely, (i)Uttarakhand, (ii)Himachal Pradesh,(iii)Haryana,(iv)Delhi, (v)Uttar Pradesh, (vi)Rajasthan, (vii)Madhya Pradesh, (viii)Chhattisgarh, (ix) Bihar, (x)Jharkhand and (xi)West Bengal.
- v. Salient Features of Ganga Basin
 - Drainage area: 86.14 Mha
 - Water Resources: $525 \times 10^9 \text{ m}^3$
 - Average Annual Rainfall: 800-1400mm
 - Length of main river: 2,525km
 - Cropped area: 58Mha
 - Flood prone area: 20.42Mha
 - Protected area in Ganga Basin States: 9.39Mha

- vi. River Systems of Ganga Basin- The basin has been further divided into 23 sub-basins- (1) Main Ganga stem, (2) Yamuna,(3) Ramganga,(4) Gomati (5) Ghaghra,(6) Tons, (7) Sone, (8) Punpun, (9) Gandak, (10) Burhi Gandak,(11) Bagmati, (12) Adhwara Group of Rivers, (13) Kamla Balan, (14) Kosi, (15) Mahananda, (16) Kiul-Harohar, (17) Badua-Chandan,(18) Ajoy, (19) Mayurakshi,(20) Damodar,(21) Jalangi, (22) Rupnarain-Haldi-Rasulpur, and (23) Tidal rivers.



B. Flood Problems in Ganga Basin

- i. Longitudinal bed profile of river Ganga and its tributaries is steep in the upper reaches; becomes flatter in middle reaches; and are almost level in the lower reaches. The upper reaches are predominantly observed by deep erosion i.e., bed retrogression. The scoured material is subsequently carried downstream by the flow. Middle reaches often exhibit signs of both erosion and aggradation in the form of meandering.
- ii. The lower reaches when bed slope becomes flatter and velocity reduces, accumulation process starts leading to formation of delta.
- iii. The key reasons of floods/flood related damages in the Ganga basin can be attributed to:
 - a) Heavy precipitation for protracted duration in the catchment;
 - b) Synchronization of heavy flow in tributaries with high stage in river Ganga

- during monsoon season;
 - c) Bank erosion by the high currents in rivers;
 - d) River meandering causing loss of land, property and life;
 - e) Inadequate bank-full capacity;
 - f) Inadequate maintenance of flood control structures;
 - g) Encroachment of flood plain;
 - h) Drainage congestion in country sides of rivers, etc.
- iv. Among the various Ganga basin States, the State of Bihar (particularly its northern part), Uttar Pradesh (particularly eastern part) and West Bengal are the worst flood affected. The State of West Bengal lies in the lower riparian region of Ganga basin and subjected to more erosion and meandering. The flood problems in the other Ganga basin States though persists, but are not as acute as these three States.
- v. As per XII Plan Working Group Report, 30.8 lakh Ha area of State of West Bengal, 49.86 lakh Ha area of State of Bihar and 73.40 lakh Ha area of State of Uttar Pradesh, are flood prone.

As a whole, total flood prone area of the country, as reported by Working Group on Flood management for XII plan, is 49.815 Mha. Out of this, reasonable degree of protection has been provided to an area of 21 Mha.

C. Functions of GFCC

The main functions of GFCC as originally envisaged are as under.

- (a) Preparation of comprehensive plan for flood control in the Ganga Basin.
- (b) To chalk out a phased and coordinated programme of implementation of the works included in the basin wise flood control plan by the States concerned.
- (c) Formulate and ensure proper standards for works and their regular maintenance.

In due course of time, some additional works were entrusted to GFCC by Ministry of Water Resources and today its broad functions are as under:

- (a) To prepare and update a Comprehensive Plan of flood management in the Ganga basin comprising 23 river sub-basins. The field investigation and collection of data for the purpose are carried out by the concerned State

Governments as directed by the Ganga Flood Control Board.

- (b) To draw out a phased and coordinated programme of implementation of works included in the sub-basin wise comprehensive flood management plans.
- (c) To advise the States concerned to follow guidelines in respect of quality control, material specifications and maintenance in order to ensure the implementation of works and the maintenance thereof to proper standards.
- (d) To prepare the annual programme of works and recommend allocation of funds, wherever required for consideration of the Board.
- (e) To make an assessment of the existing waterways under the road and rail bridges and to determine additional waterways to be provided for reducing the drainage congestion to reasonable limits and their periodic updation.
- (f) To monitor the execution of the important flood control schemes particularly those receiving central assistance or being executed under the central sector.
- (g) To examine all major and medium flood control, drainage, anti- water logging and anti-erosion schemes of Ganga basin States.
- (h) Processing the proposals received from Ganga Basin States for central funding under Flood Management Programme and monitoring of such schemes.
- (i) Documentation and dissemination of findings emerging out of special studies or investigations conducted in participation with scientific organizations for appropriate use by basin States.
- (j) To evaluate the performance of major flood control measures executed by the States including all the inter-State flood control schemes.
- (k) To participate in various National and International Committees set up by the Government of India and the Ganga basin States pertaining to the subject of flood management.

GFCC apart from being engaged in the preparation and periodic updation of comprehensive master plans for flood management in the Ganga basin is also responsible for carrying out techno-economic appraisal of flood management and anti-erosion schemes in the Ganga basin. It has also been given the task of coordinating several activities concerning flood management with Nepal and Bangladesh.

D. Schemes taken up

I Schemes taken up during XI Plan for execution with their status (State-wise) 2022-23				
Sl. No	State	No.of schemes approved	No. of schemes completed	No. of schemes under progress during 2022-23 (spillover schemes)
1	Bihar	46	42	2 [#]
2	Jharkhand	3	3	0
3	West Bengal	17	15	2
4	Uttar Pradesh	24	23	1
5	Uttarakhand	12	11	0*
6	Himachal Pradesh	1	1	-
	Total	103	95	05

II Schemes taken up during XII Plan for execution with their status (State-wise) 2023-24				
Sl. No	State	No.of schemes approved	No. of schemes completed	No. of schemes under progress during 2022-23 (spillover schemes)
1	Bihar	4	1 [#]	2
2	Jharkhand	-	-	-
3	West Bengal	1	-	1
4	Uttar Pradesh	2	-	2
5	Uttarakhand	13	5	7*
6	Himachal Pradesh	1	1	0
	Total	21	07	12

E. Organisational Structure of GFCC(staff position/incumbency details (post-wise))

Ganga Flood Control Commission has sanctioned strength of 82 officers and supporting staff. The Regular staff strength of GFCC as on 16.11.2023 is 44. The category-wise details of the regular posts as under;

Staff Position of Ganga Flood Control Commission, Patna as on 15.11.2023

CWES Cadre Post				
Sl.No.	Name of Post	Sanction Post	Present in position	Vacant
1	Chairman	01	01	-
2	Member	02	01	01
3	Director	04	04	-
4	Dy. Director	08	05	03
5	Assistant Director	08	03	05
6	Assistant Director-II	07	03	04
7	Junior Engineer	05	03	02
GFCC Cadre Post				
1	Administrative Officer	01	-	01
2	Assistant Director(OL)	01	01	-
3	Private Secretary	02	02	-
4	Head Draftsman	01	-	01
5	Head Clerk	04	01	03
6	Junior Translator	01	01	-
7	Upper Division Clerk	04	04	-
2	Steno, Gr.I	07	03	04
3	Steno, Gr.II	01	01	-
4	Draftsman, Gr.I	05	-	05
	Sr. Computer	01	01	-
5	Jr. Computer	03	01	02
6	LDC	06	05	01
7	Driver	01	-	01
8	M.T.S	09	04	05
Total		82	44	38

F. Details of amendment of Recruitment Rules; Revival/Creation of posts and Status of proposals for Mission mode recruitment. in GFCC, Patna

I. Amendment of Recruitment Rules:

Sl. No.	Name of Post	Whether amended or framed	Amended Provision	Details of Amendment	Year
1	Draftsman Gr.I (05 Post)	Amendment	Through DoPT	Persently Under process under DoPT	2023

II. Creation/revival proposals finalized:

Sl. No	Group of post	Name of Post	No. of Posts	Created or Revived	Year
1	Group-B	Stenographer Gr. I	04	Revived	2023
2	Group-B	Head Clerk	02	Revived	2023
3	Group-B	Draftsman Gr.I	05	Revived	2023
4	Group -C	Junior Computer	02	Revived	2023
5	Group-C	MTS	02	Revived	2023
6	Group-C	Driver	01	Not Revived	
7	Group-C	MTS	01	Not Revived	

III. Status of proposals for mission mode recruitment:

Sl. No.	Name of Post		No. of Post
1	Stenographer Gr. I	Requisition sent to Ministry MoJS.(Admn.) Dt- 21.10.2020	01
		Requisition sent to Ministry MoJS.(Coord.) Dt- 17.10.2022	02
		Requisition sent to Ministry MoJS.(Admn.) Dt- 02.08.2023	01
2	Head Clerk (Selection Post)	Requisition sent to SSC Prayagaraj	01
		One dossier received from SSC Prayagaraj (Selection is under process)	01
3	LDC	Requisition sent to Ministry MoJS.(Admn.) Dt- 14.08.2023	01
4	MTS	Requisition sent to SSC Prayagaraj dt- 11.05.2023	02
		Three dossier received from SSC Prayagaraj (Selection is under process)	03

IV. Achievement of GFCC during Mission mode recruitment

Sl No	Name of Post	No of Post	Target achieved till 16th November 2023	Remark
1	Head Clerk (Selection post)	01	One dossier received from SSC Prayagraj	Selection is under process
2	Lower Divisional Clerk	02	Two Candidates joined	-----
3	Jr Computer (Selection Post)	02	Offer of appointment letter issued	Offer of appointment letter not accepted by the candidate.
4	MTS	03	Three dossier received from SSC Prayagraj.	Selection is under process.
