

**T-25/2016-17/275/NMCG**  
**National mission for Clean Ganga (NMCG)**  
Ministry of Water Resources, River Development & Ganga Rejuvenation  
Government of India  
\*\*\*\*\*

1st Floor,  
Major Dhayan Chand National Stadium,  
India Gate, New Delhi- 110002

Dated: 02 November 2018

To,  
Director,  
ICAR- Central Inland Fisheries Research Institute (CIFRI),  
Monirampur (Post), Barrackpore-700120  
Kolkata, West Bengal

**Corrigendum**

**Subject: Modification of the AA&ES no. T-17/2014-15/526/NMCG-Fish and Fisheries, dated 13<sup>th</sup> July 2015 of existing project "Assessment of Fish and Fisheries of the Ganga River System for developing suitable conservation and restoration plan" issued to CIFRI at a cost of RS. 5.80 cr., by adding the proposal "Hilsa fisheries improvement in river Ganga at Farakka" at an additional cost of Rs. 1, 27, 60,000/- (One crore twenty seven lakh and sixty thousand) for one year.**

Sir,

With reference to above, we are pleased to inform you that an additional work of "Hilsa fisheries improvement in river Ganga at Farakka" is awarded to you at an additional cost of Rs. 1, 27, 60,000/- (One crore twenty seven lakh and sixty thousand) for one year, as part of the existing project "Assessment of Fish and Fisheries of the Ganga River System for developing suitable conservation and restoration plan" at a cost of Rs. 5.80 cr.

2. The main objective of the project is to improve the availability of the Hilsa species above Farakka barrage through the following activities.

- Ranching of wild collected Hilsa seed/juveniles upstream of Farakka barrage.
- Creating awareness among fishermen for conservation of Hilsa fish in Farakka.
- Study and monitor Hilsa migration in river Ganga.

3. The detail of the project, timeline & budget is enclosed as **Annexure-III** to the existing AA&ES.



4. Rest of the term & conditions will remain same as mentioned in **Annexure-II**.

5. This is issued based on the approval by the 16<sup>th</sup> Executive Committee (EC) meeting of the National Mission for Clean Ganga (NMCG) held on 29<sup>th</sup> October 2018 and the financial concurrence of ED (Finance) vide Dy. no. 55, dated 01.11.2018 and with the approval of DG, NMCG vide Dy. No. 4428 dated 01.11.2018.



**(Nityananda Ray)**  
**Deputy Secretary, (NMCG)**

**Copy forwarded for information and necessary action to:-**

- 1) PS to Director General, NMCG
- 2) PS to ED (Finance ), NMCG
- 3) Sanction Folder /Guard File/Computer Cell, /MIS, NMCG

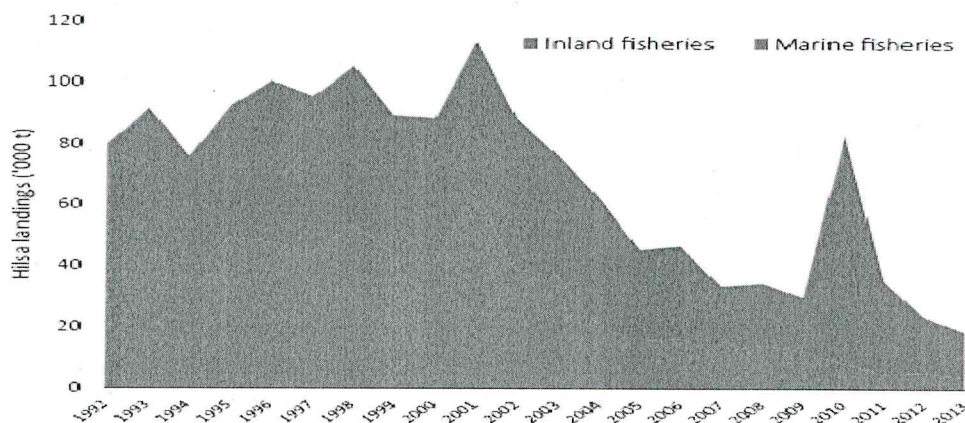


**(Nityananda Ray)**  
**Deputy Secretary, (NMCG)**

### Hilsa fisheries improvement in river Ganga at Farakka

#### Background:

Hilsa Shad, *Tenualosailisha* is one of the most important commercial fishes endemic to the Bay of Bengal. The species is anadromous and migrate to fresh water for breeding. It is well distributed in the Ganga-Brahmaputra-Meghna drainage systems of the India and Bangladesh. In India, the production of *Hilsa* from wild capture fisheries (inland and marine) has shown a declining trend from 80,000 t to 20,000 t over the 10 years since 2001.



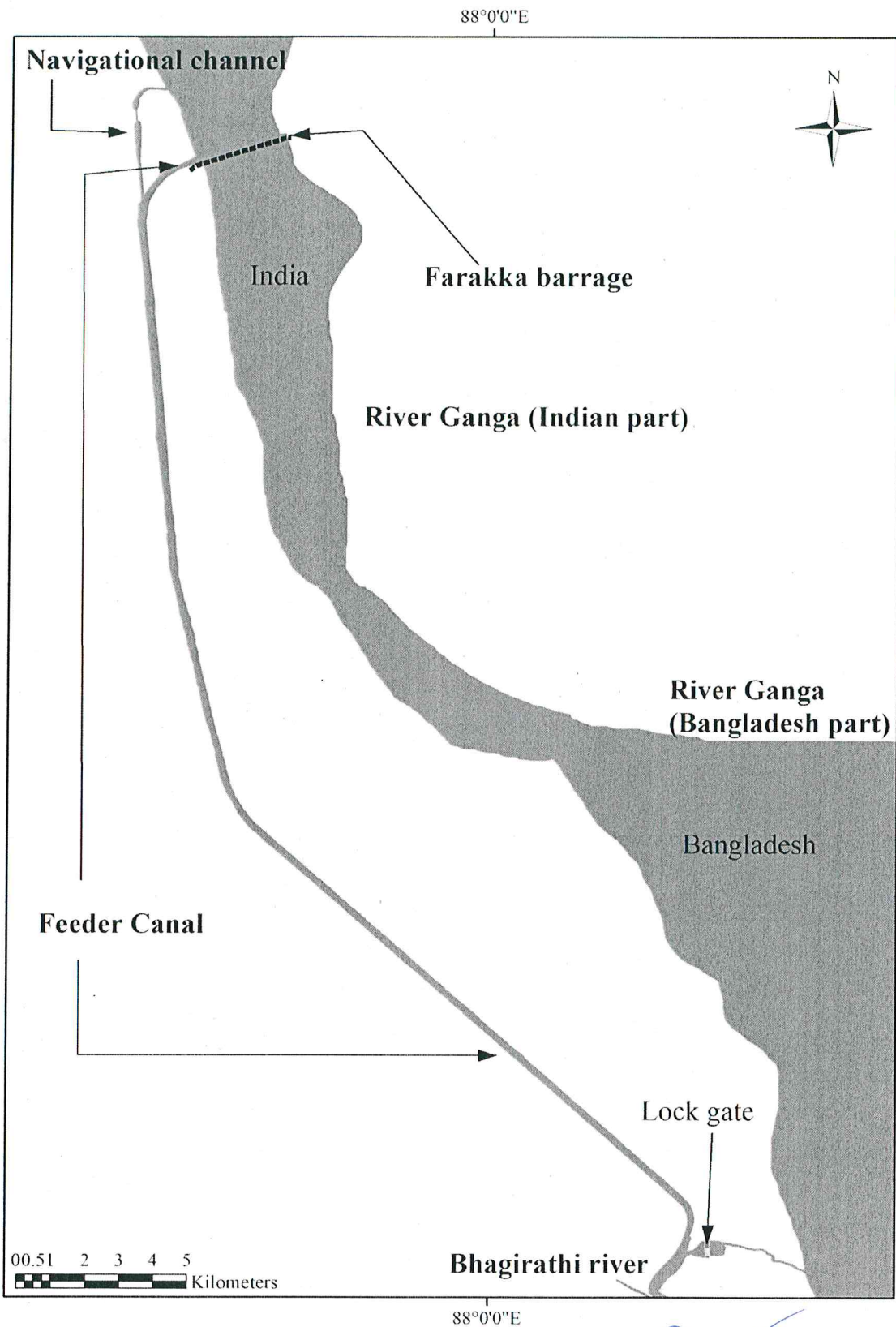
To understand the cause of decline of the fish availability around Farakka barrage, a short term study on “Hilsa catch and life stages availability along up/down stream of Farakka barrage” was awarded to CIFRI. The outcome of the study indicated that *Hilsa* is available mainly in downstream of Farakka barrage and feeder canal indicating the suitability of habitat stretch for migration and breeding. While, unavailability of adult *Hilsa* in the upstream of barrage indicated, the possible migration failure of *Hilsa* through the barrage.

In order to increase the *Hilsa* population in the upstream of the Farakka barrage particularly in the middle stretch of river Ganga, ranching of brooder and fingerling at upstream of the Farakka barrage is suggested in the recommendation of the study as the fish ladder of Farakka barrage is non-operational since 1998 and is under repair now.

In order to increase the hilsa population in the upstream of the Farakka barrage particularly in the middle stretch of river Ganga, following major activities were planned

#### Action Plan:

Ranching of wild stock and migratory behaviour study of Hilsa, *Tenuosailisha*, in river Ganga at Farakka



**Objective:**

1. To increase the natural stock of hilsa in river Ganga (upstream of Farraka barrage) through ranching of wild collected hilsa seed/juveniles
2. To study and monitor hilsa migration across the Farakka barge in the main river Ganga through suitable method

**Period of Work: One year (2018-2019)**

**Activities:**

S.	Plan	Activities	2018-19			
			Q1	Q2	Q3	Q4
1	Obj. I	Sampling sites selection in the Bhagirati-Hooghly river and in the river Ganga downstream of Farakka barrage				
2		Creation of ranching stations through intensive survey				
3		Creating awareness for juvenile hilsa conservation specific in the villages upstream of farakka barrage				
4		Hilsa seed collection from the downstream of Farakka				
5		Suitable methodology for hilsa juvenile transportation				
6		Ranching of wild stock hilsa seed in the upstream of Farakka barrage				
1	Obj. II	Experimentation on fish migration through the fish lock of farakka barrage with different suitable methodologies				
		<b>Report Submission</b>				



**Mile stone/Achievements:**

Period (2018-19)	Milestones/Achievement/Outputs
Q1	<ol style="list-style-type: none"> <li>1. Suitable Sites for hilsa seed collection in the main river Ganga and Bhagirathi through intensive survey would be selected</li> <li>2. Ranching stations at the upstream of Farakka barrage would be identified with the support from Farakka barrage authority</li> <li>3. Awareness programme on hilsa juvenile conservation at the upstream of Farakka barrage would be organised</li> <li>4. First quarter report will be submitted</li> </ol>
Q2	<ol style="list-style-type: none"> <li>1. Different methodology for hilsa seed collection with high survival would be trialled</li> <li>2. Ranching of wild hilsa seed in the upstream of Farakka barrage would be made</li> <li>3. Second quarter report will be submitted</li> </ol>
Q3	<ol style="list-style-type: none"> <li>1. Ranching of wild hilsa seed in the upstream of Farakka barrage would be made</li> <li>2. Third quarter report will be submitted</li> </ol>
Q4	<ol style="list-style-type: none"> <li>1. Ranching of natural collected hilsa juveniles in the upstream of Farakka barrage from below Farakka barrage site</li> <li>2. Monitoring on hilsa migration across the Farakka barrage through tagging</li> <li>3. Final report submission</li> </ol>

**Budget:**

Head of Expenditure	Amount (Rs.)
<b>Recurring</b>	
Manpower (4 Young professional II@ Rs. 25,000/month; 5 Young professional I @Rs.20,000/month)	24,00,000/-
TA/DA	4,00,000/-
Contingent expenditure (Seed ranching, Vehicle hiring for transportation of seed /Fish seed/sample purchase /Experimental fishing/Boat hiring/Miscellaneous item/Awareness programme/Net purchase/Transport of seed/Oxygen packaging, Fuel cost for generator/daily labour for fish seed collection)	65,00,000/-
Chemicals/glassware	5,00,000/-
Out sourcing of imaging/ study/Vediography	4,00,000/-
<b>Non-recurring</b>	
Equipment (tissue cutter, brood stock holding tanks, rearing tanks, blowers, work station, generator, Tag, Tag reader )	12,00,000/-
Fish seed collection accessories/Raft	2,00,000/-
<b>Institutional charges (10.0%)</b>	11,60,000/-
<b>Total (Rs.)</b>	<b>1,27,60,000/-</b>



**T-17/2014-15/526/NMCG-Fish and fisheries**  
**National Mission for Clean Ganga, NGRBA**  
Ministry of Water Resources, River Development & Ganga Rejuvenation  
Government of India

3<sup>rd</sup> Floor, Rear Wing  
Doorsanchar Sadan; 9, CGO Complex  
Lodi Road, New Delhi – 110003

Dated: July 2015

13<sup>th</sup>

To,  
Prof. A.P.Sharma  
Director  
Central Inland Fisheries Research Institute (ICAR),  
Barrackpore-700 120  
Kolkata, W.B.

**Sub: Administrative Approval and Expenditure Sanction (AA&ES) for the project proposal of "Assessment of fish and fisheries of the Ganga river system for developing suitable conservation and restoration plan " at an estimated cost of Rs 5.80 Crores (Rupees Five Crore and eighty Lakhs only) to the Central Inland Fisheries Research Institute (ICAR)**

Sir,

I am directed to convey the grant of Administrative Approval and Expenditure Sanction (AA&ES) for the project proposal of "**Assessment of fish and fisheries of the Ganga river system for developing suitable conservation and restoration plan**" under the "*Namami Gange*" programme at an estimated project cost of **Rs 5.80 Crore (Rupees Five Crores and Eighty Lakhs only)** with 100% central funding subject to meeting the conditions prescribed by ESC to Central Inland Fisheries Research Institute (CIFRI) as an Executing Agency.

2. The summary of cost is given in **Annexure-I** with 100% funding under the central assistance. The target deliverables/milestones, scope of work, methodology and the given timeline should be followed as per the proposal submitted by CIFRI given in **Annexure-III**.
3. The project consist of the following major project components:
  - I. Exploratory survey of river Ganga for identification of suitable sampling sites through experimental cruise (wherever possible);
  - II. Assessment of fish and fisheries
    - Abundance, composition, CPUE, Length/weight measurement, types of nets used for fishing,
    - Invasive species (diversity and composition) and their impact on fisheries
    - Index of Biotic integrity Assessment (IBI)
    - Spawn prospecting for fish seed availability




- III. Stock assessment of selected fish species
    - *Schizothorax richardsonii* and *Tor putitora*
    - *Labeo rohita*, *Catla catla*, *Cirrhinus mrigala*, *Labeo calbasu*
  - IV. Identification of migratory fishes and range of migration through tagging (normal / satellite) in the entire stretch of river Ganga;
  - V. Assessment of requirement of key habitat variables in relation to fish distribution and various biological activities of the fishes
    - Breeding / nursery requirement of fishes through studies in open vs closed wetlands
    - Depth and velocity requirement of selected six fishes for designing of fish ladders/passes and e-flow
  - VI. Seed production (in-situ) of selected fish species and ranching in the depleted river stretches
    - *Schizothorax richardsonii* and *Tor putitora*
    - *Labeo rohita*, *Catla catla*, *Cirrhinus mrigala*, *Labeo calbasu*
  - VII. Awareness campaign on sustainable fisheries and conservation for controlling of destructive fishing methods, mesh size regulation, ban period implementation with community mobilization;
  - VIII. Identification of conservation sites (Aquatic Biosphere/National Aquatic Park) through data generated through this study;
  - IX. Preparation of the fisheries conservation and restoration plan for the Ganga river system;
  - X. Preparation of Annual and Final report
4. Administrative Approval and Expenditure Sanction for the project is granted subjected to the conditions as per **Annexure-II**.
  5. The period of completion of the project is 60 (sixty) months from the date of issue of AA&ES.
  6. Any procurement of goods, works and consultancy if required by CIFRI as part of implementing the project proposal shall be made strictly as per the Procurement Guidelines incorporated in the 'NGRBA programme framework'.
  7. The funds for expenditure on the schemes would be debitible to the Non-EAP account of the NMCG. The NMCG/Government of India reserves the right to withdraw the sanction at any stage, if it is convinced that the fund has not been properly utilized or appropriate progress is not being made.
  8. In case of violation of any of the conditions of the grant or in case of closure or dissolution of the grantee organization, the Government shall take possession of all the assets of the organization acquired out of the Government grants and use them in any manner deemed appropriate or to recover from the organization the value of such assets at its discretion.





9. This issues based on the appraisal and sanction of the Empowered steering Committee (ESC) vide its 10<sup>th</sup> meeting held on 20<sup>th</sup> of October 2014, and under the financial powers delegated by the Ministry of Finance (Deptt. Of Expenditure) OM No. 24(35)/PF-II/2012 dated 29<sup>th</sup> August 2014, the concurrence of Finance Unit of NMCG vide their Dy. No. 982(AMD(admin)/Dir (F)/2014 dated 17<sup>th</sup> October 2014 & IFD dated 2/6/2015 and with the approval of Secretary (MoWR,RD&GR) dated 22/6/2015 Honorable Minister dated 30/6/2015 (MoWR,RD&GR),

Yours faithfully,



**L.B.Tuolte**  
**Deputy Seretary (Coordination)**

**Copy forwarded for information and necessary action to:-**

- 1) The Chief Secretary, Government of Uttarakhand, Uttarakhand Secretariat, 4B, Subhash Road, Dehradun-248001
- 2) The Chief Secretary, Government of Uttar Pradesh, Lal Bahadur Shastri Bhavan, UP Secretariat, Lucknow-226001
- 3) The Chief Secretary, Government of Bihar, Old Secretariat, Patna-800014
- 4) The Chief Secretary, Government of Jharkhand, Secretariat, Ranchi-834001
- 5) The Chief Secretary, Government of West Bengal, "Nabanna", HRBC building, 325, Sarat Chandra Chatterjee Road
- 6) PS to Mission Director, NMCG
- 7) Dir (Finance ) & AMD NMCG,
- 8) Sanction Folder /Guard File/Computer Cell, NRCD/MIS, NMCG,



**L.B.Tuolte**  
**Deputy Seretary (Coordination)**



**Annexure-I**

**Summary of cost of the project proposal of "Assessment of fish and fisheries of the Ganga river system for developing suitable conservation and restoration plan"**

**Consolidated Budget requirement (for 5 years)**

**Rs in lakhs**

Contractual Technical and research manpower	Instruments/ chemicals etc.	Farm /hatcheries/ operational	Travel/ transport	Misc./other expenses	Grand Total
200.0	110.0	140.0	80.0	50.0	<b>580.0</b>

**Detailed budget break-up**

**A. Contractual Technical and research manpower**

Sl.	Category	No	Amount / head/ year	Amount
1.	Research Associate	2	4.0	40.0
2.	SRF	8	3.0	120.0
3.	Technical assistant	4	2.0	40.0
	Total			200.0

**B. Instruments/ chemicals etc.**

	Instruments	No	Amount (Lakhs)
1.	Water quality probe based analyzer	2 sets (each with different parameters)	20.0
2.	GPS	2 sets	1.0
3.	Flow meter	1 set	2.0
4.	Depth meter	1 set	1.0
5.	Portable turbidity meter	1 set	1.0
6.	Portable pH/ORP meter	1 set	2.0
7.	Trinocular microscope with image processing facility	2 sets	30.0
8.	Sedgwick Rafter cell	4 sets	1.0





9.	Plankton counting chamber	2 sets	3.0
10.	Softwares		2.0
11.	Plankton net fitted with flow meter	1 set	2.5
12.	Digital balance	2 sets	0.5
13.	Computer with accessories	2 sets	2.0
14.	Water sampler	2 sets	2.0
15.	Soil sampler	2 sets	2.0
16.	Minor equipments including field still & video camera		5.0
17.	Chemicals, glass wares, plastic wares, tags etc		20.0
18.	Spectrophotometer	1 set	8.0
19.	Accessories for AAS (lamp etc)		5.00
			110.0

**C. Farm /hatcheries/operational**

	Head	No	Amount (Lakhs)
1.	Land / Hatchery lease / hiring charge	2 sets (one in hill, another in plains)	40
2.	Pond lease charge		15
3.	Pump sets		2
4.	Overhead tanks & pipes		2
5.	PVC / plastic pool /Hapa etc		4
6.	Sheds		4
7.	Diesel / electricity charges		5
8.	Feed for larvae, juveniles and brooders		5
9.	Labour charges		10
10.	Hormone, medicine etc		1
11.	Vehicle hiring charges (for field tour)		20

*Day*

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12.	Boat / motor vessel hiring charges		10
13.	Fish sample / brooder purchase		5
14.	Minor repairing charges		5
15.	Other misc expenses		12
	Total		140.0

**D. Travel/ transport**

Sl.	Head		
1	Travel expenditure by Scientists, technical, project associates, experts etc		80.00
	Total		80.00

**E. Misc./other expenses**

Sl.	Head		
1	Printing of awareness program materials like leaflets, posters, manuals, books, video films etc , Preparation of reports, Computer stationeries, Workshops/Consultations, othther misc expenses		50.00

Grand Total (A+B+C+D+E) = Rs 580.00 lakhs

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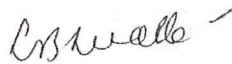
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**Conditions on Administrative Approval and Expenditure Sanction for the project on "Assessment of fish and fisheries of the Ganga river system for developing suitable conservation and restoration plan"**

**1. General Conditions:**

- i. Central Inland Fish Research Institute (CIFRI) will work as an Executing Agency (EA) for implementing the project and shall be responsible for effective implementation of the programme.
- ii. CIFRI will follow the NGRBA guideline for the Executing agency as part of the implementation of the program.
- iii. The central government will share 100 percent cost of the project.
- iv. CIFRI need to report the progress of implementation (both physical and financial progress including fund utilization certificate) on regular basis and as and when requested to NMCG.
- v. The reporting arrangement shall be based on quarterly report, i.e. 3 reports in a year, total 15 such reports, annual reports at the end of each year, total 4 such reports and final report at the end of the project, 1 report.
- vi. Progress implementation of the project shall be closely monitored by NMCG so as to ensure that the project is completed within the stipulated period of time.
- vii. Any cost escalation /time overrun will be the responsibility of the CIFRI.
- viii. CIFRI need to follow all the observation of NMCG, and Third Party Inspection (TPI) agency, if any being during the project implementation.
- ix. All components of the project shall be completed within specified time limits and the resources and outputs and outcomes are to be ensured as envisaged in the approved project completion Report that shall be submitted to NMCG on completion of the project.
- x. Any additional component relevant for project or any component require modification or deletion, may be added or modified or deleted as the case may be, only with the prior approval of the competent authority.
- xi. Staffs that may be employed for preparation, execution or operation of the programme by CIFRI are not to be treated as employees of the NMCG. The deployment of such staff at the time of completion or termination of the project will not be the concern or responsibility of the NMCG.
- xii. CIFRI shall ensure that all provisions of the RTI Act 2005 are adhered to as far as information pertaining to the project is concerned.
- xiii. Conditions/commitment indicated in the Empowered Steering Committee (ESC) Memo, Minutes and other documents including those to be fulfilled before start of the programme shall be strictly adhered to in the project implementation and management.
- xiv. CIFRI shall ensure conformity to GFRs/codal procedures/CVC guideline during the execution of the proposed work.
- xv. All the equipment's/data generated out of the study would be property of Govt. of India and decision as to its storage/ownership and disposal would be undertaken with the approval of competent authority on completion of study.






2. The release of funds is subject to the following terms and conditions:-

**2.1 Annual Plan and Procurement Plan:**

- i. The Annual Plan and yearly Procurement Plan (if any) shall be prepared by the month of November every year for the next financial year as per the provisions made in the NGRBA programme framework and submitted by the CIFRI to the NMCG for necessary approval and budget allocations.
- ii. CIFRI shall furnish to the NMCG annually a report of its work within three months from the closing of the respective financial years.

**2.2 Financial Aspects:**

- iii. Funds shall be made available to the agencies strictly as per the 'Financial Management Manual (FMM)' of the NGRBA programme framework.
- iv. The terms and conditions as stipulated in the order conveying Administrative Approval & Expenditure Sanction (AA&ES) in respect to the project shall be adhered to during implementation of the project.
- v. Any cost escalation over and above the sanctioned cost shall be borne by CIFRI.
- vi. CIFRI to take all the necessary legal and executive measures to ensure adequate resources available for operation and maintenance of the assets created under the project to fulfil its mandate.
- vii. The funds released for the project should be operated through a separate sub-project specific zero balance bank account (the 'child account') in the same bank of NMCG. For any diversion of funds, the signatory of the bank account shall be held responsible.
- viii. The NMCG / Government of India reserves the right to withdraw the sanction at any stage if it is convinced that the fund has not been properly utilized or appropriate progress is not being made
- ix. EA is not permitted to seek or utilize funds for the same purpose from any other organization (Government, semi-Government, autonomous or private) without prior approval of the competent authority.
- x. The sanctioned cost of the project will be borne under the 'Research & Development' component under "Namami Gange" programme. The sanctioned amount should be spent exclusively thereon as per the scope of the project and within the stipulated time. The liability of NMCG will not exceed the amount sanctioned for the project. For carrying forward any work(s) /activities beyond the specified time limit prior approval of the NMCG should be obtained.
- xi. It is the responsibility of the CIFRI to ensure that the assets are exclusively used for the purpose for which grant is sanctioned and to maintain the assets and their records properly.
- xii. All the assets acquired/created out of the grants shall not be disposed of, encumbered, or utilized for any purpose other than that for which sanctioned without prior approval of the Government.



### 2.3 Audit:

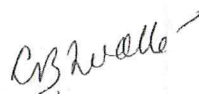
- i. The Comptroller & Auditor General of India (the External Auditor) at his discretion shall have the right of access to the project related books and accounts of CIFRI for the purpose of Audit.
- ii. The books of accounts of the grantee, relating to this grant, shall be open to Audit by the Internal Auditor of the NMCG.
- iii. The overall auditing arrangements to cover both periodical internal and annual external audit of project shall be ensured as per the 'Financial Management Manual (FMM)' of the NGRBA programme framework.

### 2.4 Flow of Funds:

- i. CIFRI will act as an Executing Agency (EA) for this project. Being an EA, funds will be made available to CIFRI as per receipt of quarterly budget demand, quarterly progress reports. The fund releases by the NMCG shall be remitted by Electronic transfer. The following details may be kept updated from time to time enable electronic remittance:-
  - a) Bank account details of EA, both in figures and words, to NMCG
  - b) MICR Code and IFSC Code of the Bank Branch (es).
- ii. The NMCG Bank will transfer funds from the NMCG'S account (mother account) to the child account of EA which in turn transfer funds to contractors/suppliers/service providers account on the same date through 'Real Time Gross Settlement (RTGS)'/National Electronic Fund Transfer System and thus at the end of any given day, the EA's child account will always have a zero balance.
- iii. The overall fund flow arrangement shall be ensured as per the 'Financial Management Manual (FMM)' of the NGRBA programme framework. NMCG would seek specific waivers/condition of delays and extension of time limits, considering the priority and need stressed on the study

### 2.5 Submission of Monthly and Quarterly Physical Progress Report (MPPR/QPPR):

- i. The Monthly Physical Progress Reports (MPPRs) shall be submitted by the 10<sup>th</sup> day of every month regularly by the EA to NMCG.
- ii. The MPPRs in standard format, to be developed by the EA in consultation with NMCG, shall be signed by at least two designated officers of the EA, one of whom will be Chief Project Coordinator, CIFRI.
- iii. The signing officers will indicate her/his name and designation in full in capital letters and affix official seal under the signature. While MPPR submitted by fax will be acceptable for commencement of processing the case, ink-signed MPPR must follow by Post.
- iv. Consistency between physical progress and expenditure shall be maintained and reasons for substantial variations i.e., more than 10% shall be appropriately explained against each item.



**2.6 Submission of 'Accounting and Financial Reports (AFR)' by the EA:**

- i. The EA shall furnish monthly 'Accounting and Financial reports (AFRs)' by the 10<sup>th</sup> day of every month with all relevant documents and materials as per the 'Financial Management Manual (FMM)' of the NGRBA programme framework after commencement of the project to NMCG.
- ii. The 'Accounting and Financial Report (AFR)' in standard format, to be developed by the EA in consultation with NMCG, shall be signed and stamped by the Head of the Accounts Department and Head of the Organization, CIFRI.
- iii. The name and designation of the officers signing the AFR shall be clearly mentioned in full and in capital letters. While AFR submitted by fax will be acceptable for commencement of processing the case, ink –signed AFR must follow by Post.
- iv. As part of the AFR, the EA shall submit the following to NMCG:
  - a. Invoices of suppliers /contractors against which online payment instruction issued by the EA in the previous month.
  - b. A list of invoices received and not paid during the previous month.
  - c. A list of contracts signed during the previous month.

**2.7 Inspection and Monitoring:**

- i. NMCG may depute any person to visit the executing agency for the purpose of monitoring of its work. Full facilities will be provided by the executing agency to the person deputed for inspection.
- ii. Mission Directorate, NMCG will monitor the overall progress of the project periodically.



