

THE CITIZEN'S CHARTER OF BRAHMAPUTRA BOARD

Basic Concept:

It has been recognized world over that good governance is essential for suitable development, both economic and social. The three essential aspects emphasised in good governance are transparency, accountability and responsiveness of the administration." Citizen's Charter "initiative is a response to the quest for solving the problems which a citizen encounters, day in and day out, while dealing with the organizations providing public services.

Formation:

The Brahmaputra Board a statutory body was set up under an act of the Parliament called the Brahmaputra Board Act (Act-46 of 1980) under the Ministry of Irrigation (now renamed as Ministry of Water Resources). The jurisdiction of the Board includes both the Brahrnaputra and Barak Valleys and covers all the states of the North Eastern Region and also northern region of West Bengal falling in Brahmaputra basin. The Board consists of 21 Members, 4 of them are full time members and 17 part time Members, representing the seven states of the North Eastern Region. North Eastern Council, Concerned Ministries, viz., Ministry of Water Resources, Ministry of Agriculture, Ministry of Finance, Ministry of Power, Ministry of Surface Transport and the Departments of the Government of India i.e. Central Water Commission, Geological Survey of India, India Metrological Department and the Central Electricity Authority. The list of Members of the Board appointed under Clause (A), (B), (C), (D) and (E) of Sub-section (3) of Section (4) is at **Annexure-I**.

The Board started functioning with its Head Quarters at Guwahati from 11-01-1982. As per Sub-section (2) of Section (3) of the Brahmaputra Board Rules-1981, the Board has established a Liaison Office in New Delhi. A High Powered Review Board to oversee the works of the Brahmaputra Board was constituted with the Union Minister of Water Resources as the Chairman and the Chief Ministers of Assam, Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland and Tripura and the Unions Minister(s) of State for Finance, Transport, Power, Agriculture, the Chairman, C.W.C. as Members. The Chairman, Brahmaputra Board is the Member Secretary. Member (RM), CWC is permanent invitee. List of Members of the High Powered Review Board appointed by the Government. of India vide Resolution No2 (17)/80/FC/460 dated 19-03-1982 and as mended vide Resolution No. 23/8/925-ER dated 01- 10-1992 is enclosed at **Annexure-II**.

Mission:

The missions of the Brahmaputra Board stipulated in the Act are:-

- 1) To carry out survey and investigations in the Brahmaputra Valley (under its jurisdiction) and to prepare the Master Plan for the control of floods, bank erosion and improvement of drainage in the Brahmaputra Valley and activities connected therewith.
- 2) To prepare the Master Plan in parts with reference to different areas of the Brahmaputra Valley or with reference to different matters relating to such areas and may as often as it considers necessary so to do, revise the Master Plan or any part thereof.
- 3) To prepare Master Plan for development and utilization of water resources of the Brahmaputra Valley for irrigation, hydro-power, navigation and other beneficial purposes.
- 4) To submit Master Plan/ revised Master Plan to the Central Government after consultation with the State Government concerned and approve the same subject to such modification as it may deem fit.
- 5) To prepare detailed project report and estimates in respect of the dams and other project in the Master Plan as approved by the Central Government and indicate in each case the cost attributable to different purposes or uses.
- 6) To draw up standards and specifications for construction, operation and maintenance of such dams and other projects.
- 7) To construct with the approval of the Central Government multipurpose dams and works connected therewith as proposed in the Master Plan approved by the Central Government and maintain and operate such dams and works.
- 8) To prepare in consultation with the State Government concerned a phased programme for construction by the State Government of all dams and other projects in the Master Plan as approved by the Central Government other than those referred in (7) above.
- 9) The Board may maintain and operate any dam or project so long as it deems necessary to do so.
- 10) To perform such other functions as a supplemental, incidental or consequential to the functions specified above.

Profile:

The Brahmaputra Board has carried out detailed planning and documentation of the enormous water resources of the" North Eastern Region and related problems and potentials which includes preparation of Master Plan, survey, investigation and preparation of detailed project reports of the multipurpose projects and of the drainage congested areas and Anti-erosion schemes. Giving importance to development and utilisation water resources of the Brahmaputra and Barak Valleys for hydro power, navigation, and other beneficial purpose. Its assignment also includes preparation of DPR of the Dams and other projects identified in Master plan as approved by the Central Government and to take up construction and maintenance of the projects approved by Central Government and works connected therewith as proposed in the Master Plan and also to maintain and operate such dams and works.

Preparation of Master Plan :

Brahmaputra Board has so far identified Master Plan of Brahmaputra and Barak river system, rivers of Tripura, south flowing rivers of Meghalaya and rivers of Sikkim and North Bengal area falling in Brahmaputra Basin. Due to enormity of task, the work has been divided into three parts as under :

- Master Plan Part- I i.e. Main stem of Brahmaputra approved by Govt. of India
- Master Plan Part- II i.e. The Barak river and its eight important tributaries approved by Govt. of India.
- Master Plan Part-III i.e. The Master plan of 55 tributaries of the river Brahmaputra, including Majuli island and 8 rivers of Tripura, 3 south flowing rivers of Meghalaya and 3 rivers of Sikkim and North Bengal falling in Brahmaputra Basin.

Out of 57 identified Master plans, 44 nos. have been approved by the MoWR. In addition to the above Board has also approved 5 Master Plans. These 5 Master Plans have been sent to MoWR and the approval of the same is awaited. It is targeted to complete all Master plans during XI plan.

Investigation and Preparation of DPR for Multipurpose Project

Brahmaputra Board has identified and taken up the survey and investigation and preparation of DPR for 14 (fourteen) Multipurpose projects till now. DPR for Single Dam project proposal for Subansiri and Dihang were prepared by Brahmaputra Board but could not be taken up for execution because of objections from Government of Arunachal Pradesh on account of large submergence. Therefore, Brahmaputra Board has modified Subansiri and Dihang Projects proposal with a series of 3 dams of each river basin. Subsequently, these 3 projects on Subansiri and 3 projects on Dehang were handed over to NHPC in March, 2000. Tipaimukh project, for which Brahmaputra Board prepared DPR has been handed over to NEEPCO for execution. Similarly, investigations

of the Bhairabi project was completed in March,2000 and DPR prepared by the Brahmaputra Board was handed over to Mizoram Government for execution. Pagladiya Dam Project is under execution by the Brahmaputra Board. Brahmaputra Board completed the Feasibility Report for Debang & Kynshi –I M.P.P during X Plan. Dibang dam Project has been handed over to NHPC LTD for DPR preparation and implementation. The Kynshi Stage-I & II projects have been entrusted to private developers by Government of Meghalaya. Preparation of DPRs for Kulsi MPP and Noa - Dehing MPP are in progress and targeted for completion during XI Plan. Brahmaputra Board also completed the S&I work of Lohit Dam Project which has now been awarded to private developer by the Govt. of Arunachal Pradesh. DPR for Jiadhah dam Project is targeted for completion during 2013-14. DPR for Simsang MPP is targeted for completion during 2012-13 and for Killing Dam Project target date for completion is 2013-14.

Present Position of Pagladiya Dam Project:

The work for Pagladiya dam project are held up due to non-completion of Zirat survey and land acquisition by the State Govt. The Government of Assam has informed Brahmaputra Board in a meeting held on 4-4-2008 taken by the Principal Secretary to the Govt. of Assam, Revenue and Disaster Management Department with the concerned officials of Govt. of Assam and Brahmaputra Board, that all the revenue and land matter of BTC area has been transferred to Boroland Territorial Council and as such the Board should take up the matter of Zirat Survey with them. Accordingly, the Board is taking up the matter of Zirat Survey with the Principal Secretary of Boroland Territorial Council. In this respect Board has already written to the Principal Secretary of Boroland Territorial Council to initiate the Zirat survey. This point also did come up in the meeting taken by the Secretary (WR) held on 15.05.2008 at New Delhi in which the Chief Secretary, Govt. of Assam echoed in the same line.

It was decided that the Chairman, Brahmaputra Board would make continuous efforts to get the matter expedited with the Principal Secretary, BTC at the earliest. It was also decided that the Government of Assam should expedite the matter by coordination with BTC.

Subsequently, the Chief Secretary, Govt. of Assam, in a meeting held on 23rd Oct, 2009, emphasized on the Board officials that it would be ideal if the dam could be constructed at Thalkuchi. However, as an alternate to this, possibility can be explored to shift the dam site to the confluence of Pagla & Diya near Indo-Bhutan border. As the catchment areas fall within Bhutan, the matter would require to be taken up with Government of Bhutan through Ministry of External Affairs, Govt. of India'

The possibility of an alternative dam site upstream of Thalkuchi was explored keeping into account the resultant submergence to be within Indian Territory. After examining the available reports for alternative sites in the upstream of Thalkuchi which was investigated earlier and incorporated in the Detailed Project Report (DPR) of Pagladiya Dam Project, it was opined that no suitable site is available in the upstream of

Thalkuchi. The matter has been intimated to the Ministry of Water Resources and the Ministry has asked for the views of Govt. of Assam on the final recommendation/views of Brahmaputra Board.

Execution of Drainage Development Scheme:

Harang Drainage Development Scheme: The scheme has been completed in all respect during March, 2011. located in Barak Valley on the border of Bangladesh near Badarpur, has a couple of sluices, Embankment along Barak (Surma) river, Re-sectioning of existing channels and raising & strengthening of a village road cum embankment. The scheme is expected to remove drainage congestion of an area of 11,800 ha.

Barbhag Drainage Development Scheme (7.23 crore): The raising and strengthening of embankment and re-sectioning work of Suthajan channel is completed. However, during the course of execution, the Design drawings of sluice regulator are modified by CWC and accordingly work programme has to be modified. The DPR is under revision and the progress up to May, 2011 is 29%.

Amjur Drainage Development Scheme (18.84 crore): The detail design of sluice is being done by the CWC. The work awarded to the earlier contractor for construction of new embankment and raising and strengthening of existing embankment has been rescinded. Now, the work for Raising & Strengthening of existing embankment has been awarded to a new contractor. The progress upto May, 2011 is 30%

Other Drainage Development Schemes :

3 (three) DDS namely Jakaichuk (2.96 crore), East of Barpeta (1.34) crore) and Jengrai (1.49 crore) – 45%, 45% and 27% progress of the works respectively have been achieved upto May, 2011.

North Eastern Hydraulic & Allied Research Institute (NEHARI)

The North Eastern Hydraulic & Allied Research Institute (NEHARI) was established at Rudreswar (North Guwahati) as an outcome of Assam Accord with the following facilities:

- i) Hydraulic Laboratory with facilities for 4(four) model trays & flumes.
- ii) Material testing laboratories viz
 - a) Soil (b) concrete & (c) construction material and foundation rock.

NEHARI was operationalised at a total cost ` 14.00 cr. during 1996. NEHARI has so far undertaken testing of soil, concrete and rock samples as requisitioned by various organizations/ project authorities of N.E. Region besides laying of 7(seven) nos. of physical model study. Out of these, following physical model studies were undertaken on sponsorship basis

1. Brahmaputra River Model of Phulbari Reach – sponsored by NEC
2. Physical Model of River Jia-Bharali – sponsored by BRTF(Vartak)
3. Physical Model of River Jiadhal – sponsored by NEC

Since in the North Eastern Region clear weather is available for a limited period only (October to March) scope for physical model studies under open sky is also limited. To overcome the situation, a couple of Hangers over the model trays have been constructed during 2010.

NEHARI has got working arrangements with the two premier institutes of the country, namely Central Water & Power Research Station (CWPRS), Pune and Central Soil & Material Research Station (CSMRS), Delhi.

Presently, it is conducting model studies on Majuli Island for its next phase of work and also carrying out material testing of different projects.

Flood Management Works

Avulsion of Brahmaputra at Dhola–Hatighuli:

The combined flow of Debang and Lohit river was originally out falling into Dehang river at about 25 km downstream of Saikhowa reserve forest at Kobo. The discharge in the rivers Dholla, Dangri and Dibru increased year after year due to avulsion of Lohit through Anantanala and Balunala which took place in the year 1992. This problem was further aggravated due to Debang flowing from north to south direction and pushing the flow of Lohit towards its south bank. Avulsion/offshoot channel of Lohit and Debang was flowing with 90% of their discharge and out falling into Brahmaputra at North Balijan instead at Kobo during 2001-02.

The Brahmaputra Board initially took up the Phase-I work amounting to ` 10.47 crore during January 2003 and succeeded in diverting Debang river to its original course. Again, Phase-II work amounting to ` 4.95 crore was completed to push the river Lohit towards its north bank during 2004. Further, Phase-III works for an amount of ` 8.47 crore has been completed during 2007-08. Subsequently, Dhola-Hatighuli-Phase-IV has been started and the works of R.C.C. porcupine, tie-bund and pilot channel are underway. Progress up to May, 2011 of phase-IV work is 45%.

Protection of Majuli Island:

On receipt of request of Govt. of Assam and, the Detailed Project Report on protection of Majuli Island from flood and erosion was prepared by Brahmaputra Board based on the recommendations of the Master Plan and submitted to the CWC during August, 2000. The Central Water Commission techno-economically cleared the scheme in August, 2003 for ` 86.56 crore. The Project emphasized implementation of protection works in 3(three) phases viz. Phase-I, II & III.

To reduce flood problem of the Majuli Island, protection works were undertaken in 2004-05 as immediate measures at an estimated cost of ₹ 6.22 crore. This was followed by protection works under phase-I for ₹ 41.28 crore as a part of DPR cleared by CWC for ₹ 86.56 crore for execution in three phases. Estimate for Phase-I works had been revised to ₹ 56.07 crore. The Phase-I works have been completed during April, 2011 at an expenditure of ₹ 53.34 crore.

In addition to above, Brahmaputra Board also took up certain works of emergent nature as cleared by CWC and completed the same prior to the monsoon of 2008 at a cost of ₹ 4.97 crore

Based on the findings of the model studies for a long-term measure, the DPR for Phase-II & III has been techno-economically cleared for Rs. 115.07 crores. The estimate has been revised to ₹ 115.99 crore and techno-economically cleared by CWC in January, 2011. The works under these phases are in progress. 23.32% of the works under these phases have been completed upto May, 2011.

The Govt. of India has constituted a Standing Committee of Experts for Majuli Island under the Chairmanship of the Member (RM), Central Water Commission and the Chairman, Brahmaputra Board, the Chief Engineer (FM), CWC, Director CWPRS, Prof. K.G. Rangaraju, retired Prof. of IIT (Roorkee), Prof. D.C. Goswami Guwahati University and Prof. Gananath, PD College, Majuli as members vide notification dated 19-11-07. The Committee visited Majuli Island on five occasions i.e. from 2nd to 4th January, 2008, 16th to 18th June, 2008, 30th November to 1st December, 2008, 18th to 20th May, 2009 and 10th to 12th April, 2010 and 6th to 8th November, 2010 and suggested certain measures which are being executed by the Board.

Protection of Nagrijuli Rangia Town and Mukalmuwa/Barbhag area from flood and erosion of Barnadi river:- Protection works of Nagrijuli Rangia Town and Mukalmuwa/Barbhag area from flood and erosion of Barnadi river was taken up by Board and successfully completed during 2009-10.

Anti erosion measures to protect Kushiabil & Durgajan Village at Dimapur of river Dhansiri (S) – (₹ 2.4 crore): Protection of Kushiabil & Durgajan village from erosion of river Dhansiri (S) in Dimapur, Nagaland was taken up by Board in 2 (Two) phases. The Phase-I works were completed during 2005-06 and the works under Phase-II were completed during 2007-08.

Flood Control and River Management Works under Flood Management Programme (State-Sector Scheme)

During X Plan, the Govt. of India approved for execution of schemes in the state of Assam under “Critical Flood Control & Anti-erosion Scheme in Brahmaputra and Barak Valley (State sector)” with funding pattern of 90:10 as grant and state share. An amount of Rs. 146.20 crore was released by the MoWR during X Plan for execution of these schemes.

In November, 2007, the Government of India has approved the Cabinet Note for the implementation under "Flood Management Programme" a state sector scheme under Central Plan to provide central assistance to the State Governments amounting to Rs. 8000 crore during XI Plan period (2007-12) for taking up river management, flood control, anti-erosion, drainage development, flood proofing work and restoration of damaged flood management works etc.

The status of Central Assistance provided under "Flood Management Programme" to the States of Assam, Arunachal Pradesh, Nagaland, Sikkim, Mizoram, Manipur, Tripura and West Bengal under the jurisdiction of Brahmaputra Board is given against Para 6 of working of Brahmaputra Board.

Long term strategy for Flood Management and Erosion Control in Brahmaputra river :-

Long term strategy for the flood control of Brahmaputra River Basin has been brought out in the Master Plan of main stem of Brahmaputra, prepared by Brahmaputra Board and approved by Government of India. These long term strategies are given below:-

- Multipurpose storage dam projects;
- Watershed management;
- River training works ;

Some reaches of river Brahmaputra experiences heavy erosion on both the banks which sometime results in development of side channels also. The causes of heavy erosion are identified to be excessive sediment loads, steep bed gradients, erodable nature of bank materials etc. The erosion is mostly observed at places both on the upstream and downstream of stable reach or nodal points. It has been suggested in the master plan that the reaches of the river where erosion is acute should be studied and examined on scientific basis to find out causes of formation of Char-land in the middle and side channels along either bank. It has also been suggested in the master plan that the reach-wise behavior of the river in regard to the other conditions like velocity distribution, boundary condition, silt carrying capacity and other parameters should be examined from one nodal point to the other.

Over the years, only short-term measures were taken for river training on site specific points. Some beginning has to be made to start long-term measures to tackle riverbank erosion problems.

In view of a long term solution to flood and erosion control in the region, Brahmaputra Board has prepared a conceptual proposal for "River Stabilization Measure in the main stem of Brahmaputra". Modalities are being worked out for carrying out mathematical model studies of Brahmaputra river in collaboration with IIT, Guwahati.

Organizational Structure:

The organizational structure of the Brahmaputra Board, which is headed by the Chairman, is shown at **Annexure-III**.

The following offices of the Board are located at Basistha, Guwahati-781029.

- a) Secretariat of the Brahmaputra Board
- b) Office of the Chief Engineer (Planning & Design)
- c) Office of the Chief Engineer (Investigation & Works)
- d) Office of the Superintending Engineer, Guwahati Circle
- e) Office of the Executive Engineer. Guwahati Division.

The office of the Executive Engineer, North Guwahati Division is situated at Rudreswar, Guwahati- 781030. The North Eastern Hydraulic & Allied Research Institute (NEHARI) is also situated here which is being run by the Board on ad-hoc arrangement. The NEHARI is functioning since 1996. The office of the Chief Engineer, Pagladyia Dam Project was established at Nalbari, Assam.

On creation of the Brahmaputra Board in 1981-82, it took over the works of survey and investigation of Dihang (Siang) and Subansiri projects and also the hydro-meteorological network in Brahmaputra Valley along with the entire infrastructure from the then Flood Control Department, Govt. of Assam. A large number of work-charged staff of the Flood Control Department had also come over to the Board during 1982 on "as-is-where-is" basis. After preparation of the DPRs of Dihang and the Subansiri projects and the Master Plan Part- I pertaining to the main stem of Brahmaputra river, the work load and the staff position were reviewed by the government and as per decision of the Govt. of India, all deputationist who came to Board on "as-is-where-is" basis, were reverted to their parent department within 28-02-1989. The Flood Control Department however, did not agree to take back the work-charged staff who were engaged in various activities of the Board and they remained with status as Board's work-charged employees. However, during transfer of the projects to the NEEPCO and NHPC, about 30% of the w/c employees were transferred to the NEEPCO and the NHPC.

Grievance Redressal Mechanism:

In its pursuit of excellence, the Brahmaputra Board believes in an open door policy. Yet to further promote fair and equitable employee relations in the organization and to ensure harmonious relationship with the environment, the Board has established a grievance redressal procedure for its employees. In order to systematize and strengthen the redressal process, it provides for a time bound mechanism. Grievance Redressal Mechanism procedure provides a channel for an employee to invoke the procedure for seeking remedy to an anomaly arising out of implementation of Board's policy / rules such as salary payment, recovery of dues, working conditions, leave, quarters allotment, medical facilities, withholding of benefits under rule, transfer,

seniority, promotion, pay fixation and like issues. The procedure has been formulated so as to aim at resolving the grievances raised, orally or in writing, within a prescribed time frame. It also provides various stages of redressal, giving an opportunity to an aggrieved employee to seek remedy even from the highest authority.

Other Forums:

A number of bipartite forums comprising the representatives of employees and the management have been established which are as follows:-

a) **Complaint Committee on sexual harassment & gender justice:** In pursuance of the Hon'ble Supreme Court's order, a complaint mechanism to deal with such cases in the Board was constituted with seven committee members including a Chairperson and Member Secretary which came into force from 31.12.1997. The Committee has thereafter been reconstituted with effect from 08.11.2010. However, no case has so far been registered.

b) **Forum for Disciplinary & Vigilance Cases:-** The Board has a Vigilance Wing headed by a part-time Chief Vigilance Officer and assisted by one part-time Vigilance Officer.

Right to information act, 2005:

In pursuance of Govt. of India, MoWR, letter No. 31/15/2004-IT/B&B/200 dated. 22.12.2005, the Right to Information Act, 2005 has been introduced in Brahmaputra Board on 31.12.2005. After introduction of the Right to Information Act-2005, the Brahmaputra Board has notified all relevant information pertaining to Brahmaputra Board and has published the same in its website as a part for administration and implementation of the Act. The information in the website is being updated from time to time complying with the directives and provisions of the Right to Information Act-2005. [N.B. This Charter is a summary of the services rendered by the Brahmaputra Board which is committed to provide to the people and is not a part of the policy condition or service condition of our employees]

Benefit of Schemes/Projects

Sl. No.	Name of Project/Schemes	Dist./Taluk Benefited	Total expected Benefited area.
1	Harang Drainage Dev. Scheme	Cachar	11850 Ha.
2	Barbhag D.D.S.	Nalbari	4000 Ha.
3	Joysagar D.D.S.	Nagaon	2410 Ha.
4	East of Barpeta D.D.S.	Barpeta	2852 Ha.
5	Singla D.D.S.	Cachar	97 Sq. Km.
6	Jengrai D.D.S.	Jorhat	14 Sq.Km.
7	Jakaichuk D.D.S.	Sivsagar	2308 Ha.
8	Kailashahar D.D.S.	North Tripura	1000 Ha.
9	Amjur D.D.S.	Cachar	72 Sq.Km.
10	Pagladiya Dam Project	Nalbari	Flood 40,000 Ha. Irrigation 54,160 Ha.
11	Avulsion of Brahmaputra at Dhola Hatighuli, Ph-I	Tinsukia & Dibrugarh	16,200 Ha.
12	Avulsion of Brahmaputra at Dhola Hatighuli, Ph-II	-Do-	-Do-
13	Avulsion of Brahmaputra at Dhola Hatighuli, Ph-III	-Do-	-Do-
14	Majuli Island from Flood & Erosion, Ph-I	Jorhat,	6,197 Ha.
15	Majuli Island from Flood & Erosion, Ph-II & III	Jorhat,	-Do-
16	Kushia beel	Dimapur	150 Ha.
17	Protection of Nagrijuli Rangia Town and Mukalmuwa/ Barbhag area.	Baksa	35.11 Ha.

COMPOSITION OF THE BRAHMAPUTRA BOARD

APPOINTED UNDER CLAUSE (A) & (B) SUB-SECTION (3) OF SECTION (4) OF BRAHMAPUTRA BOARD ACT, 1980 (46 OF 1980)

Full Time Member

1. Chairman
2. Vice-Chairman
3. General Manager
4. Financial Adviser

Part Time Member:

1. Secretary, Water Resources Department, Govt. of Assam,
2. Chief Engineer, PWD (R) Govt. of Meghalaya
3. Chief Engineer, Irrigation & F. C. Deptt., Govt. of Nagaland.
4. Chief Engineer, PWD (WR) Govt. of Tripura.
5. Secretary, Irrigation & F.C. Deptt., Govt. of Manipur
6. Chief Engineer, (WRD), Govt. of Arunachal Pradesh
7. Chief Engineer (Civil), Power & Electricity Deptt., Govt. of Mizoram
8. Member (RM), Central Water Commission, New Delhi..
9. Member (HE), Central Electricity Authority, New Delhi.
10. Director General of Meteorology, IMD, New Delhi.
11. Commissioner (B&B), Ministry of Water Resources, New Delhi.
12. Financial Adviser, Ministry of Water Resources, New Delhi.
13. Financial Adviser, NEC, Shillong.
14. Chief Engineer, Inland Waterways Authority of India, Noida.
15. Joint Secretary (H), Ministry of Power, New Delhi..
16. Joint Secretary (NRM), Deptt. of Agriculture & Co-operation, Natural Resource Management Division, MoA, New Delhi.
17. Deputy Director General, GSI, North Eastern Region, Shillong.

Special Invitee:

1. Adviser, (NE), Planning Commission, New Delhi.
2. Chief Engineer (B&BBO), Central Water Commission, Shillong.
3. Secretary, Irrigation & Waterways Department, Govt. of West Bengal, Kolkata.
4. Secretary, Irrigation Department, Govt. of Sikkim, Gangtok.
5. Secretary, DoNER, New Delhi.

Annexure-II

COMPOSITION OF THE HIGH POWER REVIEW BOARD

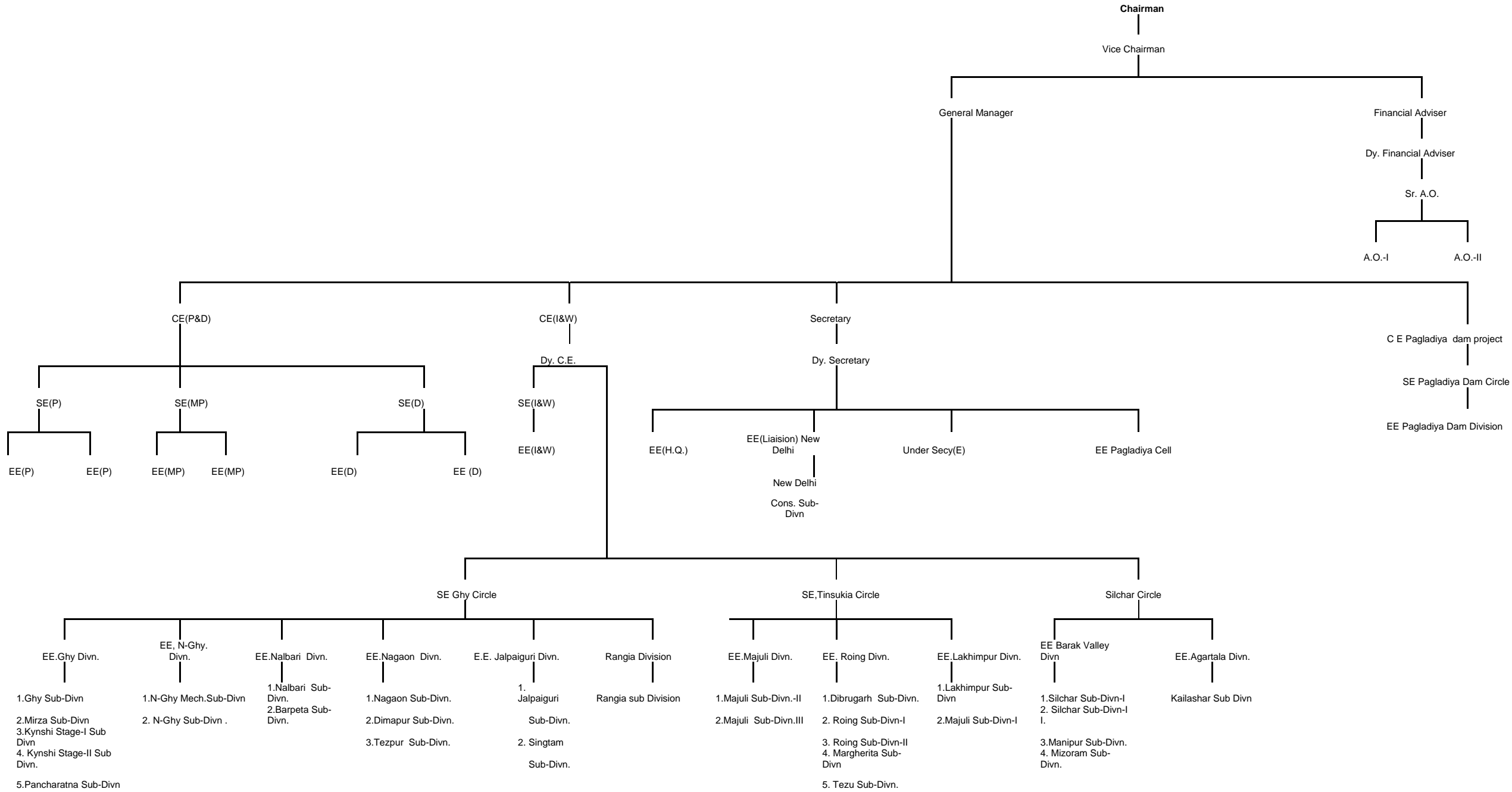
APPOINTED BY THE GOVERNMENT OF INDIA VIDE RESOLUTION NO.2(17)/ 80-FC/460 DTD.19TH MARCH,1982 AS AMENDED

1. Union Minister for Water Resources	Chairman
2. Chief Minister of Assam or a Cabinet Minister duly authorized by him	Member
3. Chief Minister of Manipur or a Cabinet Minister duly authorized by him	Member
4. Chief Minister of Meghalaya or a Cabinet Minister duly authorized by him	Member
5. Chief Minister of Nagaland or a Cabinet Minister duly authorized by him	Member
6. Chief Minister of Tripura or a Cabinet Minister duly authorized by him	Member
7. Chief Minister of Mizoram or a Cabinet Minister duly authorized by him	Member
8. Chief Minister of Arunachal Pradesh or a Cabinet Minister duly authorized by him	Member
9. Union Minister / Minister of State for Finance	Member
10. Minister of State for Water Resources	Member
11. Union Minister / Minister of State for Energy	Member
12. Union Minister / Minister of State for Agriculture	Member
13. Union Minister / Minister of State for Surface Transport	Member
14. Secretary, Ministry of Water Resources, Govt. of India	Member
15. Chairman, Central Water Commission	Member
16. Chairman, Brahmaputra Board	Member-Secretary
17. Member (RM), Central Water Commission	Permanent Invitee

Name, designation and phone nos. of key personnel of Brahmaputra Board.

Name and address	STD Phone	Fax/e-mail
1. Y.ABDUL BASHEER Chairman (i/c) Brahmaputra Board Basistha, Guwahati-781029	0361- 2301099 (O)	Fax: 0361-2301099 1. e-mail: vcbboard@yahoo.com 2. e-mail: bbrd-ghy@nic.in
2. Y.ABDUL BASHEER Vice Chairman Brahmaputra Board Basistha, Guwahati-781029	0361-2300607 (O)	Fax No. 0361-2302890 e-mail : vcbboard@yahoo.com
3. NAVIN KUMAR General Manager Brahmaputra Board Basistha, Guwahati-781029	0361-2302527(O) 0361-2305323(R)	Fax : 0361-2307452 1. e-mail: bbrd-ghy@nic.in 2. e-mail: bbrd_ghy@sify.com 3. e-mail: gmbboard@gmail.com
4. JOY BARMAN Secretary Brahmaputra Board Basistha,Guwahati-781029	0361-2300128(O)	Fax : 0361-2308588 1. e-mail: bbrd_ghy@sify.com 2. e-mail: jbarman74@gmail.com
5. D.J. BORGHAIN Chief Engineer (I&W) Brahmaputra Board Basistha,Guwahati-781029	0361-2302867(O) 0361-2200612(R)	Fax : 0361-2302867 1. e-mail : bbrd-ghy@nic.in 2. e-mail : borgohain.dhrubajyoti@gmail.com
6. P.C.Hazarika Dy. Financial Adviser Brahmaputra Board Basistha,Guwahati-781029	0361-2300607(O)	Fax : 0361-2302890 e-mail: hazarika.phatickchandra@gmail.com

ORGANISATIONAL CHART OF BRAHMAPUTRA BOARD



Names, Designations and other particulars of Public Information Officers

The names, designation and other particulars of Public Information Officers of Brahmaputra Board are given below :

Appellate Authority

Name: Shri Navin Kumar
Designation : General Manager,
Address :Brahmaputra Board, Basistha, Guwahati-781029
Tel No. 0361-2302527 (O)
0361-2300290 (R)
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WORKING OF BRAHMAPUTRA BOARD

1. Constitution: The Brahmaputra Board was constituted in 1980 by an Act of Parliament (46 of 1980 called "The Brahmaputra Board Act") with the objective of planning and integrated implementation of measures for control of floods and bank erosion in Brahmaputra and Barak Valley and for matters connected therewith. It started functioning from 11th January, 1982 with headquarters at Guwahati, Assam. The jurisdiction of the Board includes the Brahmaputra and Barak Valleys and rivers of Tripura. As initially notified under the Act, the states of Arunachal Pradesh, Assam, and Meghalaya, parts of the states of Manipur, Mizoram, Nagaland, and Tripura were included in the jurisdiction. The jurisdiction has been extended in June, 2006 to include Sikkim and a part of West Bengal falling within the Brahmaputra Basin.

2. Organization: The Board consists of the Chairman, Vice-Chairman, General Manager as full time Member, Financial Adviser as Ex-officio member and 17 part time Members representing 7 States of the North Eastern Region, North Eastern Council, concerned Ministries of Government of India namely Water Resources, Finance, Agriculture, Power, Surface Transport and Organizations of Government of India, namely Central Water Commission, Central Electricity Authority, India Meteorological Department, Geological Survey of India and DoNER.

3. Major functions:

- The main function of the Board as per the Act is survey and investigations in the Brahmaputra Valley and preparation of Master Plans for the control of flood and bank erosion and improvement of drainage giving due importance to the development and utilization of Water Resources of the Brahmaputra Valley for irrigation, hydropower, navigation and other beneficial purposes.
- Preparation of Detailed Project Reports (DPR) and estimates of projects proposed in the Master Plans as approved by the Central Government.
- Construction of Multipurpose Dams and other works proposed in the Master Plans as approved by the Central Government.

4. Main activities undertaken: Since its inception, the Board has carried out detailed planning and documentation of the water resources of the North Eastern Region and the related problems and potentials, which includes survey and investigations, preparation of Master Plans and Detailed Project Reports etc. Since 1999-2000, the Board has taken up various projects. Construction works also in the areas of drainage development and erosion and flood control. The details are as under:

- **Master Plans:** Out of 57 identified Master Plans, so far 44 numbers of Master Plans have been completed by the Board and approved by the Government of India. These Master Plans have been sent to the concerned States for necessary action and implementation. Subsequently, 5(five) more Master Plans completed by Board have been sent to MoWR for approval Of Central Government. It is targeted to complete all other Master Plans during XI plan. The Master Plans, prepared river basin/sub-basin-wise, include information on Water Resources available, temporal distribution of Water Resources, design flood, water requirement for various uses, water balance study, problem areas identified, past works done, suggested measures for tackling balance problem, probable cost of measures suggested, benefits likely to accrue on implementation of Master Plan recommendations etc. The main recommendations include both structural and non-structural measures for flood management on short, medium and long-term basis apart from multi-purpose projects.

- **Preparation of DPR for Multipurpose Projects:** Status of the 14 projects taken up by the Board so far is as follows :-

- DPRs completed for five projects (Siang Single Stage, Subansiri Single Stage in Arunachal Pradesh, Tipaimukh in Manipur and Mizoram, Pagladiya in Assam and Bairabi in Mizoram). Pagladiya Dam Project is under execution by the Board. Siang and Subansiri Dam Projects have been handed over to the National Hydro-Electric Power Corporation (NHPC) for execution. Tipaimukh and Bairabi Dam projects have been handed over to the North East Electric Power Corporation (NEEPCO) and the

Govt. of Mizoram respectively. DPR for Dibang Project in Arunachal Pradesh was partially completed and handed over to NHPC for DPR completion and implementation. Brahmaputra Board completed the investigation works of Lohit Dam Project. The project has been awarded to private developer by the Govt. of Arunachal Pradesh. Kynshi Stage-I Dam Project & Kynshi Stage-II Dam Project in Meghalaya which were under survey & investigation of Brahmaputra Board have also been awarded to private developers by the Govt. of Meghalaya for preparation of Detailed Project Reports and also to construct the projects.

➤ Presently, 5 projects as below which are under Survey & Investigation of Brahmaputra Board are in various stages of investigation / DPR preparation:

1. Noa-Dehing - Arunachal Pradesh
2. Jiadhah - Arunachal Pradesh
3. Kulsu - Assam & Meghalaya
4. Killing - Assam & Meghalaya
5. Simsang - Meghalaya

➤ **Drainage Development Schemes (DDS):** 41 nos. of drainage congested areas in Brahmaputra and Barak basin have been identified. Out of which, 1(one) DDS has been completed, 5 (five) DDS are under execution, 5 (five) DDS have been proposed for deletion due to their non-feasibility and the rest are under various stages of investigation.

Construction activities:

(A) Pagladiya Dam Project: This project meant for flood moderation to benefit an area of 40,000 ha. Irrigation benefit to 54,160 ha. and incidental power generation of 3 MW is proposed across Pagladiya River at Thalkuchi in Baksa District which falls under Bodoland Territorial Autonomous Districts (BTAD) in Assam. The project envisages construction of 25 m high and 21 km long earth dam with a concrete spillway. The Government of India had sanctioned the project in January 2001 at an estimated cost of Rs.542.90 crore for construction by Brahmaputra Board.

The original work programme could not be implemented due to inability of Govt. of Assam to provide required land. Possibility of alternative dam site was explored but no suitable site could emerge. The matter has been intimated to MoWR.

(B) Construction of Drainage Development Schemes:

- (i)** Harang Drainage Development Scheme: The Harang Drainage Development Scheme with an estimated cost of Rs.30.49 crore has been completed by Brahmaputra Board in the Cachar District of Assam. The scheme would provide benefits to 11850 ha of chronically drainage congested area in Barak Valley, Assam for agriculture. .
- (ii)** Borbhag Drainage Development Scheme (7.23 crore): Works are in progress. Raising and strengthening of embankment, re-sectioning of channel and construction of sluice are under execution. The estimate has to be revised due to change of sluice design. Progress upto May, 2011 is 29 %
- (iii)** Amjur Drainage Development Scheme (18.84 crore) - (Rs.14.15 crore): The scheme was techno-economically cleared for an amount of Rs. 14.15 cr. in January, 2006. The work order for raising and strengthening of existing embankment has been awarded. Progress upto May, 2011 is 30%.
- (iv)** Other Drainage Development Schemes : 3 (three) DDS namely Jakaichuk (2.96 crore), East of Barpeta (1.34) crore) and Jengrai (1.49 crore) were taken up for execution during the year 2006-07. The progress of the works is as per schedule.

Progress of these DDS up to May, 2011 are as follows:

Name of Scheme	Physical Progress	Financial Progress
(1) Borbhag	29%	3.42 crore
(2) Amjur	30%	9.75 crore
(3) Jengrai	27%	1.02 crore
(4) Jakaichuk	45%	1.35 crore
(5) East of Barpeta	45%	1.63 crore

(C) Anti-erosion and Flood Control Schemes.

- (i) **Avulsion of Brahmaputra at Dholla Hatighuli** - Phase-I amounting to ₹ 10.47 crore, Phase-II amounting to ₹ 4.95 crore and Phase-III works for ₹ 8.47 crore have been completed. Phase-IV works at Dholla Hatighuli area for ₹ 53.11 crore are under execution and 45 % of the works have been completed up to May, 2011 against the expenditure of ₹ 23.67 crore.
- (ii) **Protection of Majuli Island in Assam:** On receipt of request from Govt. of Assam, the Detailed Project Report on Protection of Majuli Island from Flood and Erosion was prepared by Brahmaputra Board on the basis of recommendations of the Master Plan and submitted to the CWC during August, 2000. The Central Water Commission techno-economically cleared the scheme in August, 2003 for ₹ 86.56 crore comprising three phases such as Phase-I, II & III
- In order to reduce erosion problem of the Majuli Island, protection works were undertaken in 2003-04 as immediate measures at an estimated cost of ₹ 6.2 crores. This works were followed by protection works under Phase-I for ₹ 41.28 crore, as a part of DPR cleared by CWC for ₹ 86.56 crore for the works contemplated in three phases. Estimate for Phase-I works had been revised to ₹ 56.07 crore. The Phase-I works have been completed during April, 2011 at an expenditure of ₹ 53.34 crore. The revised DPR for Phase-II & III works have been technically cleared by CWC for ₹ 115.07 crore. 23.32% of the works have been completed upto May, 2011 against an expenditure of ₹ 26.97 crore.
- (iii) **Anti-erosion measures to protect Kushiabil & Durgajan Village at Dimapur of river Dhansiri (S) – (₹ 2.64 crore):** Protection of Kushiabil & Durgajan village from erosion of river Dhansiri (S) in Dimapur, Nagaland was taken up by Board in 2 (Two) phases. The Phase-I works were completed during 2005-06 and the works under Phase-II were completed during 2007-08.
- (iv) **Anti-erosion works of Nagrijuli, Rangia town and Mukalmua/ Borbhag area from flood and erosion of Puthimari river, Assam: (₹ 4.89 crore):** Protection works of Nagrijuli Rangia Town and Mukalmuwa/ Barbhag area from flood and erosion of Barnadi river was taken up by Board and successfully completed during 2009-10.

(v) **Construction of Raised Platform:** So far, Brahmaputra Board has completed construction of 8(eight) raised platforms and constructions of another 5(five) raised platforms are in progress.

5. North Eastern Hydraulic and Allied Research Institute (NEHARI):- This institute was established under Brahmaputra Board at Rudreswar (North Guwahati) as per the Assam Accord, and operationalised during 1996. The main functions of NEHARI are material testing, carrying out model studies etc. Facilities such as Hydraulic Laboratory with model trays and flumes and Laboratories for testing soil, concrete, other construction materials and foundation rock exist in the institute. There is a working arrangement for coordination with the Central Water & Power Research Station (CWPRS), Pune and Central Material Research Station (CSMRS), New Delhi. Three model studies and several testing of soil, rock and concrete samples have already been carried out in NEHARI for various organisations/ project authorities in the N.E.Region like North East Electric Power Corporation, Central Water Commission, North Eastern Council, National Hydro Power Corporation and State Governments of Assam, Manipur, Meghalaya and Mizoram. In addition to above the model studies of Majuli for long term solution for flood problem of Majuli Island and Jiabharali river at Chowkighat for Construction Bridge at the National highway have also been completed. The North Eastern Region has clear weather for a limited period (October to March). As such, scope for physical model studies under open sky is also limited. To overcome the situation, 2 (two) Hangers over the model trays have been constructed. Presently, it is conducting model studies on Majuli Island for its next phase of work and also carrying out material testing of different projects.

6. Flood Management Programme under State Sector for taking up Flood Control and River Management Works during XI Plan: In November, 2007, the Government of India has approved the Cabinet Note for the implementation of "Flood Management Programme" a state sector scheme under Central Plan to provide central assistance to the State Governments amounting to Rs. 8000 crore during XI Plan period (2007-12) for taking up river management, flood control, anti-erosion, drainage development, flood proofing work and restoration of damaged flood management works etc. Proposals under this programme for the N.E States are vetted/recommended and monitored by the Board. A table showing the status of Flood Management Programme under State Sector up to March, 2011 are as follows:-

Rs. in lakh

Sl. No.	Name of States	Total Nos. of schemes under FMP	Total Cost			Fund released upto 2010-11	No. of schemes Physically completed up to 31-03-11
			Estimated cost	Central share	State share		
1	Arunachal Pradesh	11	6781.00	6103.00	678.00	6174.00	11
2	Assam	85	81779.00	73601.00	8178.00	50893.00	66
3	Manipur	22	10934.00	9841.00	1093.00	5266.00	12
4	Meghalaya	0	0.00	0.00	0.00		0
5	Mizoram	2	913.00	821.70	91.30	206.00	0
6	Nagaland	5	1389.70	1250.90	138.97	1121.00	5
7	Sikkim	24	8620.94	7758.86	862.09	6440.00	18
8	Tripura	11	2657.22	2391.50	265.72	1622.00	2
9	West Bengal	6	2233.10	2009.75	223.31	1339.00	5
Total		166	115307.96	103777.07	11530.89	73439.00	119

7. Long term strategy for Flood Management and Erosion Control in Brahmaputra river:-

Long term strategy for the flood control of Brahmaputra River Basin has been brought out in the Master Plan of main stem of Brahmaputra, prepared by Brahmaputra Board and approved by Government of India. These long term strategies are given below:-

- i) Multipurpose storage dam projects
- ii) Watershed management
- iii) River training works

In view of a long term solution to flood and erosion control in the region, Brahmaputra Board has prepared a conceptual proposal for "River Stabilization Measure in the main stem of Brahmaputra". Modalities are being worked out for carrying out mathematical model studies of Brahmaputra river in collaboration with IIT, Guwahati.

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