

**3 YEAR ACTION PLAN
GOVT. OF ASSAM
WATER RESOURCES DEPARTMENT**

- Population affected by flood in 2014-15: 36.67 Lakh (11.70 %) after measures taken up by WRD.
- Target to reduce the population affect: 8.07% by 2019.
- Total flood prone area : 31.05 Lakh Hectare (RBA assessment)
- Target to improve protection area : 19.62 Lakh Hectare by 2019

Assessment of existing programmes

Existing Programmes	Existing status	Assessment	Anticipated Target by 2019	Remarks
Fortification of embankment system & const. of new embkt.	Total embkt. : 4474 Km Already fortified : 738 Km	Further scaling up required.	<ul style="list-style-type: none"> ▪ 410.00 Km fortification ▪ Const. of new embkt. in gaps of Brahmaputra. 	MoWR, Govt. of India
Channelization & reclamation including River Training Works & corrective dredging	<ul style="list-style-type: none"> ▪ 924 nos. of important reaches already protected. ▪ DCI, submitted a preliminary report on dredging to Deptt. after reconnaissance survey. 	Further scaling up required.	<ul style="list-style-type: none"> ▪ 30 nos. of important reaches to be protected ▪ Reclamation of 100 sq Km. ▪ Completion of feasibility study & implementation of pilot project as per requirement. 	MoWR, Govt of India
Improvement of drainage & de-watering	De-watering measures by pumping in Guwahati city	Further scaling up required as to cover more affected areas	Completion of resource generation & award of work for providing such facilities in Dibrugarh, Jorhat, Silchar & Dhubri	

Existing Programmes	Existing status	Assessment	Anticipated Target by 2019-20	Remarks
Development of Advanced flood forecasting system	CWC is issuing WL forecast with 12hrs lead time. NESAC - ASDMA issuing area specific flood warning (FLEWS) with lead time 24-48 Hrs.	Upgradation with higher percentage of accuracy	WL forecast with 1 day lead time having 70% accuracy	System is to be developed jointly by IMD, CWC, CGWB, ASDMA , NESAC & AWRMI
Development of Centre of Excellence in the field of Water Resource Sector	RRS, Basistha has been upgraded as AWRMI	Need to develop the AWRMI as Centre of Excellence	Establishment of training & capacity building entre and knowledge centre	To be supported by GoI, GoA & External Agencies.

Action Plan to Achieve the Targets

Target Item	Present Status	Target by 2019-20	Action Plan for			Remarks
			2017-18	2018-19	2019-20	
Fortification of embankment system & Construction of new embkt.	738 Km. fortification works completed	<ul style="list-style-type: none"> ▪ 410.00 Km fortification ▪ Const. of new embkt. in gaps of Brahmaputra. 	<ul style="list-style-type: none"> ▪ 60.00 Km fortification ▪ Finalisation & approval for const. of new embkt. 	<ul style="list-style-type: none"> ▪ 150.00 Km fortification ▪ Starting of works for new embkt. 	<ul style="list-style-type: none"> ▪ 200.00 Km fortification ▪ Completion of work. of new embkt. 	Projects will be implemented with funding from Gol, External Agencies & State Govt.
Channelization & reclamation including River Training Works & corrective dredging	<ul style="list-style-type: none"> ▪ 924 nos. of important reaches already protected. ▪ DCI, submitted a preliminary report on dredging to Deptt. after reconnaissance survey. 	<ul style="list-style-type: none"> ▪ 30 nos. of important reaches to be protected ▪ Reclamation of 100 sq Km. ▪ Completion of feasibility study & implementation of pilot project as per requirement. 	<ul style="list-style-type: none"> ▪ 5 nos. of reaches to be protected ▪ Reclamation of 10 sq Km. ▪ Identification of Agencies/Expert Groups & award of assignment. 	<ul style="list-style-type: none"> ▪ 10 nos. of reaches to be protected ▪ Reclamation of 30 sq Km. ▪ Submission of intermediate report & starting of pilot project as per requirement. 	<ul style="list-style-type: none"> ▪ 15 nos. of reaches to be protected ▪ Reclamation of 60 sq Km. ▪ Completion of feasibility study & implementation of pilot project as per requirement 	Projects will be implemented with funding from Gol, External Agencies & State Govt.

Action Plan to Achieve the Targets

Target Item	Present Status	Target by 2019-20	Action Plan for			Remarks
			2017-18	2018-19	2019-20	
Const. of detention reservoir for flood cushioning	No such reservoir is in existence now	Detailed survey for project formulation	Identification of Agencies/Expert Groups & award of assignments for detail survey.	Intermediate review of the assignments	Completion of detail survey for project formulation	Surveys will be taken up under funding from GoI, External Agencies.
Integrated watershed Mgmt.	Not yet established	Identifications of basins requiring priority attention & correspondence with MoWR, GoI will be initiated.	Preliminary selection of the basins requiring attention.	Finalisation of the basins requiring attention on priority basis.	Correspondence with MoWR, GoI will be initiated.	Actions will be taken up through a Basin Level Organisation constituted by Govt of India
Development of Advanced flood forecasting system	CWC is issuing WL forecast with 12hrs lead time. NESAC - ASDMA issuing area specific flood warning (FLEWS) with lead time 24-48 Hrs.	WL forecast with 1 day lead time having 70% accuracy	Constitution of a Joint Committee of stake holders, review of existing models and steps for developing desired model	Trial run of the model & preliminary calibration thereof.	Final calibration of the model & starting of forecast	System is to be developed jointly by IMD, CWC, CGWB, ASDMA , NESAC & AWRMI

Target Item	Present Status	Target by 2019-20	Action Plan for			Remarks
			2017-18	2018-19	2019-20	
Comprehensive Morphological studies	No study available	Completion of studies of Brahmaputra & Borak	Completion of resource generation & award of work	Intermediate review of progress	Completion of studies	Studies will be taken up by the renowned institutions of the State & country.
Improvement of drainage & de-watering	De-watering by pumping is available in Guwahati city	Completion of resource generation & award of work for providing such facilities in Dibrugarh, Jorhat, Silchar & Dhubri	Completion of detail study for projects	Preparation & finalization of DPR and obtaining of all statutory clearance	Completion of resource generation & award of work.	To be implemented by Town & Country Planning Deptt., Urban Development Deptt.etc.
Development of Centre of Excellence in the field of Water Resource Sector	RRS, Basistha has been upgraded as AWRMI	Establishment of training & capacity building Centre and knowledge centre	Building up all the infrastructures for Training & Capacity building centre	Building up all the infrastructures for knowledge centre & full fledged starting of Training & Capacity building	Full fledged functioning of Training & Capacity building centre and knowledge centre	To be supported by GoI, GoA & External Agencies.

Requirement of Fund to achieve the Targets

Target Item	Amount Involved (Rs. in Crore)			Available Resources
	2017-18	2018-19	2019-20	
Fortification of embankment system & Construction of new embankment	350.00	800.00	1200.00	Tentative availability of resources from FMP, NABARD, NEC etc. are expected to the tune of 1900 Crore. Some projects may be executed through PPP mode.
Channelization & reclamation including River training Works & corrective Dredging	1100.00	1200.00	1500.00	
Construction of detention reservoir for flood cushion	150.00	400.00	2500.00	
Integrated watershed Management	0.50	1.00	1.00	- Do -
Development of Advanced flood forecasting system	2.00	2.00	2.00	Fund required is tentative. Action to be taken jointly by ASDMA, CWC, NESAC, WRD.
Comprehensive morphological studies	3.00	3.00	4.00	Fund required is tentative. A part of resource may be available from the projects under World Bank
Improvement of drainage & de-watering	50.00	75.00	100.00	Works to be taken up by TCP & UDD and resource may be generated by convergence of existing programme or through central funding or through funding from external agency.
Development of Centre of Excellence	10.00	15.00	20.00	To be supported by Gol, GoA & External Agencies.