Guidelines

for

Jal Kranti Abhiyan

2015-16

Ministry of Water Resources,
River Development & Ganga Rejuvenation
Government of India

May 2015

INDEX

1. INTRODUCTION

1.1 "**Jal Kranti Abhiyan**" shall be celebrated during year 2015-16 to consolidate water conservation and management in the country through a holistic and integrated approach involving all stakeholders, making it a mass movement.

- With a rapidly growing population and increasing needs of a fast developing nation, coupled with likely adverse impact of climate change, per capita availability of water would be declining year after year.
- If not addressed properly in a timely manner, the fast growing water demand is likely to lead to water conflicts among different user groups as well basin states.
- There is an urgent need to promote as well as to consolidate the activities of water conservation, optimization of water use efficiency and water demand management in the country through a holistic and integrated approach.

It is important to create mass awareness on these issues or in other words, we need "**Jal Kranti Abhiyan**" throughout the country.

1.2 Objectives:

- Strengthening grass root involvement of all stakeholders including Panchayati Raj Institutions and local bodies in the water security and development schemes (e.g. Participatory Irrigation Management (PIM);
- Encouraging the adoption/utilization of traditional knowledge in water resources conservation and its management;
- To utilize sector level expertise from different levels in government, NGO's, citizens etc; and
- Enhancing livelihood security through water security in rural areas.

1.3 Strategies:

The broad strategies to be adopted for successful achievement of objectives of the "**Jal Kranti Abhiyan"** will be as follows:

a. Use of modern techniques coupled with traditional wisdom for devising area/region specific innovative measures for increasing water security;
b. Revival of traditional knowledge and sources for water conservation and utilization;
c. Encouraging conjunctive use of surface and groundwater;
d. Promotion of appropriate technologies for efficient and sustainable use of rainwater; Old and new ground water schemes, Creation of additional facilities for water conservation through construction of water harvesting structures;
e. Rainwater harvesting for recharge to be made mandatory for residential, commercial and industrial buildings/premises;
f. Selected interventions for maintaining the specified water quality standards;
g. Convergence of efforts of various departments in water resources development and management;
h. Promotion of social regulation for meeting the demand as well as for optimizing the use-efficiency of water for various purposes especially industry, agriculture and domestic;
i. Institutionalization of village participation in water related schemes and projects and cost sharing for O&M by the community to instill a sense of belongingness, accountability and responsible partnership.
j. Provision for incentivizing / honouring PRIs for devising innovative/unique ways to create water security in their areas for amelioration in water related issues.
k. A logo for Jal Kranti Abhiyan shall be used to connect positively with all stakeholders.

1.4 Activities proposed under Jal Kranti Abhiyan

(i) Jal Gram Yojana

(ii) Development of Model Command Area

(iii) Pollution abatement

(iv) Mass Awareness Programme

(v) Other Activities

2. JAL GRAM YOJANA

2.1 Under this activity, water conservation and water security schemes are to be taken up to ensure optimum and sustainable provision of water to at least one water stressed village in each 672 districts of the country with effective involvement of stakeholders.

- One village, in every district facing acute water scarcity, shall be selected as "**Jal Gram**".
- Selection of Jal Gram shall be done by District level committee formed for implementation of Jal Gram Abhiyan. The format for basic data for selection of Jal Gram is enclosed as **Annexure – A**.
- An index value shall be assigned to each village (based on gap between demand and availability of water and other factors) and the village with highest index value shall be included in **Jal Kranti Abhiyan** program.
- A cadre of local water professionals i.e. **Jal Mitra** shall be created by imparting them suitable training to create mass awareness about issues pertaining to water as well as providing necessary guidance in tackling water supply related routine issues.
- Associated woman Panchayat members shall be encouraged to become Jal Mitra.
- A card known as Sujalam Card (with the logo "Water Saved, Water Produced/जल बचत, जल निर्माण") shall be prepared for every Jal Gram which would provide the yearly status/information on quality of Drinking water available for the village.
- A comprehensive integrated development plan for each Jal Gram shall be made by block level committees on the basis of available data regarding sources, quantity and quality of water in the village as well as the projected requirements. The committee will formulate an integrated development plan for providing water in required quantity and quality in a sustainable manner.

- The plan will include information on present sources of water in the village; its availability at present in both quality as well as quantity terms; the gaps in requirement and availability; and possible works to be taken up under various schemes of the State Government / Central Government to ameliorate the situation.

- Local stakeholders particularly farmers & Water User Associations (W.U.A's) will be encouraged to provide suggestions towards possible solutions to the problems being faced by them. Suggestion of local representatives will be duly considered in preparation of the plan. Provision for operation and maintenance of the work (on sharing basis) by stakeholders will also be an integral part of the plan. The plan, once approved by District Level Committee, will form basis for formulation of individual schemes by the concerned line departments.

- Representatives of Ministries of Agriculture, Drinking Water & Sanitation, Urban Development, Rural Development, New and Renewable Energy etc., would also be associated at both district and block level for selection and planning.

- Integrated development plan for Jal Gram shall be executed by state water resources department and funds shall be made available from new as well as existing Plan Schemes such as Repair, Renovation and Restoration of Water Bodies, Integrated Watershed Management Scheme, Pradhan Mantri Krishi Sinchai Yojna, schemes under Ministry of New and Renewable Energy as well as MGNREGA.

2.2 Activities proposed under Jal Gram Yojana:

- Repair, Renovation & Restoration of existing and abandoned water bodies (reservoirs, tanks, ponds etc.) along with its distribution system within its command.

- Rainwater harvesting and Artificial recharge of ground water

- Recycling of waste water

- Mass awareness program for active participation of farmers

- Micro irrigation for water use efficiency

- Reclamation of water logged areas through bio-drainage etc.
- Community based water monitoring
- Innovation and Technology application
- Pollution abatement (Surface and ground water)
- Capacity building of Water User Associations and Panchayati Raj Institutions (PRI's).
- The Integrated Water Security Plan, works undertaken and outcomes of these works would be evaluated by a Committee at district level to be nominated by District Level committee. Performance of each Jal Gram included in Jal Kranti Abiyanh shall be evaluated and acknowledged at suitable platfom e.g. India Water Week**.**
- The line departments will prepare schemes in their respective domain in consultation of the Block Level Committee. The schemes will be appraised by the District Level Committee for its completeness. Subsequently, the line department will obtain necessary approvals. Efforts will be made to sensitize concerned appraisal agency to accord necessary approvals on priority basis. After necessary approval, the fund for implementation will be arranged as described in Section "Funding Arrangements" of this guideline.

- The works will be implemented by the concerned line department on priority basis. The progress of implementation of the work will be monitored by the Block Level Committee on a weekly basis. The same will also be monitored by the District Level Committee on a monthly basis and State Level Committee on quarterly basis.

- The performance evaluation of the works will be taken up by the District Level Committee on its completion. The situation of water problem in the village will be reviewed with respect to the base line information collected towards the commencement of the programme. Necessary corrective marginal modification work required, if any, will be taken up.

- Depending on the nature of works involved, necessary arrangement will be made for handing over the its operation and maintenance to the Water Users' Associations / PRIs concerned after its completion.

3. MODEL COMMAND AREA

3.1 Identification of Model Command Area

- A model command area of about 1000 hectare in a State shall be identified. States adopted for model Command area should represent different parts of the country e.g. Uttar Pradesh, Haryana (North), Karnataka, Telangana, Tamil Nadu (South), Rajasthan, Gujarat (West), Odisha (East), Meghalaya (North East) etc.
- Model command area shall be selected from an existing / ongoing irrigation project in the state where funds for development are available from various schemes.
- Selection of Model Command Area shall be done by Ministry of Water Resources, River Development and Ganga Rejuvenation in consultation with States Governments.

3.2 Development of Model Command Area

The following activities are proposed to be undertaken for the development of Model Command Area during the year:

- Water conservation
- Installation of solar power panels on canal top to reduce evaporation and to augment solar energy generation for consumption of farmers wherever found useful.
- Community based water use monitoring for promoting volumetric measurement and Warabandi.
- Use of primary treated water for Irrigation
- Promoting Micro-irrigation (Drip and sprinkler Irrigation) and Pipe Irrigation wherever found useful
- Watershed management and consumptive use of ground water
- Artificial recharge of ground water

- Encouraging participatory irrigation management and collection of water charges by water user association.
- Any other activity with permission of Ministry of WR, RD & GR.

4. POLLUTION ABATEMENT

4.1 Water Conservation and Artificial Recharge

- Advocacy for water conservation shall be achieved through **126 training programmes** in the Over Exploited (OE) blocks of India where availability of the water is already scarce and water levels are declining to create awareness as well as to disseminate information among the stakeholders on water conservation and artificial recharge, their utility, impact and techniques by utilizing the rainfall runoff.
- The focus states would include water stressed districts in Andhra Pradesh, Telengana, Chhatisgarh, Delhi, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Punjab, Rajasthan and Tamil Nadu, Union Territory of Daman & Diu and Pondicherry.
- The numbers of training programme will be distributed in the States and Union Territories where OE blocks are distributed.
- The training will be conducted at Block/District level and locations will be identified in consultation with the State Governments.
- The resources persons for training will be officers from the concerned Regional Offices of the CGWB / State Govts under whose jurisdiction the area falls as well as the officers from the State departments.
- The teams shall visit the identified location to get familiarised with the extent of the problems, existing facility and inputs from the villagers. The team will use modern techniques coupled with traditional wisdom specific

to the area for revival of traditional sources for water conservation and utilisation and use of water harvesting techniques at individual level.

- The funding of the training will be from RGNGWTRI (RGI) under the three tier training programs (350 proposed under this year).

4.2 Ground Water Pollution Abatement

- Fluoride and Arsenic are two major pollutants of ground water in India. 224 training programmes in fluoride and arsenic affected areas are to be organized, out of which 138 programmes, one each in affected districts (total affected districts - 276) for fluoride affected areas and 86 programmes for arsenic affected areas one each in 86 affected districts (total affected districts – 86) would be organized.
- The programme will be organised in block/ tehsil / taluka headquarter targeting the State Govt. Officials, Panchayat representatives, opinion makers, youth & Nehru Yuva Kendra (NYK) members, NGOs and stakeholders including progressive farmers to create awareness about the pollution, its health impact and various mitigation options. The programmes will cover the issues of other ground water contaminants also, as prevailing in the area and possible solutions including remedial measures.
- The resource persons for training will be officers from the concerned Regional Offices of the CGWB / State Governments under whose jurisdiction the area falls, as well as from the State water supply, health and irrigation department, representative of the Academia. The team will disseminate modern techniques as well

as traditional wisdom specific to the area, and water purification techniques. The scope of alternate source of water, if present in the area will also be discussed. Best practices, if any, will also be documented.

- The funding of the training will be from RGNGWTRI under Tier III training programmes (total 350 proposed in this year).

4.3 Dedicated Programme for Construction of Arsenic Free Wells in Selected areas and Capacity Building of the officers of the State Water Supply Agencies and other stakeholders particularily W.U.A's and farmers

Arsenic contamination is a major ground water quality problem. The affected areas are distributed over large part of the Gangetic Plain. The activities to address the problem are as follows:

- CGWB to construct deep tube wells in the 7 blocks distributed in 5 districts of the 4 affected States namely, Uttar Pradesh, Bihar, Jharkhand and West Bengal. The State govt. shall be the partner in the programme for distribution of water in the villages. The prime objective of the programmes is to provide arsenic free ground water from deeper aquifer for drinking purposes.
- CGWB to organize one capacity building programme (2 days duration) in each of the States of Uttar Pradesh, Bihar, Jharkhand, West Bengal and Assam.
- The resources persons for capacity building programme will be officers from the concerned Regional Offices of the CGWB, State departments and representatives of Academia.

- The funding of construction of the wells will be from Ground Water Management and Regulation Scheme. The expenditure for 4 capacity building programmes will be arranged from budget of RGNGWTRI (RGI).

4.4 Recharge along the Ganga Flood Plain for River Rejuvenation

- A Pilot project on artificial recharge structures to augment the ground water resource at the underlying aquifers to be executed in parts of Kanpur and Unnao Districts, covering in both banks of the Ganga River, where the suitable geomorphic units are available and hydro-geological conditions are conducive.
- The project will be executed by Northern Regional Office in consultation with the State Government Departments. Teams from CGWB shall visit the identified location to get familiarised and identify the specific area for taking up the scheme.

5. MASS AWARENESS PROGRAMME

5.1 Tailor made awareness campaigns designed to address problems and suggest solutions to meet the requirements of each segment of the society under the continuing scheme of "Information, Education and Communication". The focus will be on:

i. Use of Social Media like Facebook, Twitter, etc. to engage the citizens;

ii. Awareness programme for the general public on radio and television;

iii. Use of print media (e.g. booklets, posters and pamphlets) to spread awareness on Jal Kranti Abhiyan.

iv. Awareness programme for children and adult through essay, painting & other competitions;

v. International Water User Exchange Programme;

vi. Specific activities targeting the policy planners and opinion makers; and

vii. Organization of conferences, workshops on important water development and management issues.

5.2 Indicative list of activities planned during the year 2015-16

i. Creating and maintaining website on **Jal Kranti Abhiyan** for general public and monitoring of activities for implementation agencies;

ii. Creating Face book page & twitter account on **Jal Kranti Abhiyan** and its continuous updating;

iii. Creating linkage to **Jal Kranti Abhiyan** website in all official websites of Ministry of Water Resources, River Development and Ganga Rejuvenation and requesting other concerned offices like state water resources departments to add the link as well;

iv. Printing of booklets, posters and pamphlets on Jal Kranti Abhiyan in Hindi / English as well as in regional languages.

v. Holding essay competition for children and adults separately on **Jal Kranti Abhiyan** at State level;

vi. Holding informative module of **Jal Kranti Abhiyan** in all training programmes conducted by NWA, Pune;

vii. Capacity Building activities targeting policy planners / stakeholders etc.

6. OTHER ACTIVITIES

6.1 The following activities would also be undertaken as part of **Jal Kranti Abhiyan**:

- States shall be encouraged to adopt State Water Policy in line with National Water Policy 2012. They shall also be encouraged to set up/strengthen State Water Resources Council and State Water Regulatory Authority
- Evaluation studies for impact assessment.
- Allotting Unique Identification Number to every water body from data available on WRIS (Use of space technology for mapping of water).
- Real time river flow monitoring showing live picture of the flowing water shall be developed by CWC.
- Any other activity related to impact study, innovative technology for saving water taken up by State Level / District level Committee

7. IMPLEMENTING AGENCIES

7.1 Jal Gram and Model Command Area:

All the activities will be undertaken by the State Governments and various organisations of the Ministry including Central Water Commission, Central Ground Water Board and others under the approved programmes;

7.2 Pollution abatement:

This activity shall be undertaken by CGWB for underground water and State Governments.

7.3 Mass Awareness:

These activities shall be undertaken by CWC, CGWB, NIH, NWM, NWA, Pune and Rural Development, Urban Development Departments of State Governments etc.

7.4 Overall Coordination and Monitoring

Each participating organization will nominate a nodal officer for the implementation of Jal Kranti Abhiyan.

An Advisory and Monitoring Committee is proposed to be constituted at national level. The composition of the Committee would be as under:

National Level Committee

Sl. No	**Composition of Committee**	**Role of committee**
1	**Chairman: Additional Secy (WR, RD & GR)** **Vice Chairman: Member(RM), CWC**	Overall monitoring and co-ordination.
2	Members: Joint Secretary (Administration & GW) Joint Secretary (Policy and Planning) Chairman, CGWB Director, NIH, Roorkee Chief Engineer(HRM), CWC Representative of Ministry of Agriculture* Representative of Ministry of Rural Development* Representative of Ministry of Urban Development* Representative of Ministry of Drinking Water & Sanitation* Representative of Ministry of Panchayati Raj* Representative of Ministry of Health & Family Welfare * Representative from W.U.A etc.	
3	**Member Secretary:** Director RMCD, CWC	

* Not below the rank of Director

Chairman may co-opt any member for the committee

For implementation and other purposes, committees shall also be set up at State Level, District Level and Block Level also.

State Level Committee

Sl. No	Composition of Committee	Role of committee
1	**Chairman: Principal Secretary Water Resources (or MI) of concerned State**	The Committee will be responsible for overall implementation of the Abhiyan in the State. Recommendations of district level Committee along with other inputs shall be examined by the Committee and the projects fulfilling the well-defined criteria and guidelines shall be taken up for implementation through Block Level Committee. The State Level Committee will move the proposal for funding from concerned ministries.
2	**Members:** Regional Chief Engineer, CWC Engineer-in-Chief of the Water Resources Department Regional Director, CGWB Representative of Department of Agriculture for concerned State Representative of Department for Rural Development for concerned State Representative of Department of Urban Development for concerned State Representative of Department of Drinking Water Supply for concerned State Representative of Department of Panchayati Raj for concerned State Representative from Department of Health from concerned State Representative from WUA, WALMI etc.	
3	**Member Secretary:** Director, CWC from field formation nominated by Regional Chief Engineer, CWC	

Chairman may co-opt any member for the committee

District Level Committee

Sl. No	Composition of Committee	Role of committee
1	**Chairman: District Magistrate of concerned District**	The activities under Jal Kranti Abhiyaan in the district will be implemented under the overall guidance and supervision of the said committee. The Committee will monitor the progress of activities at an appropriate interval namely, monthly basis. The committee will also appraise the plans and project reports of the activities to be implemented at district level.
2	**Members:** CWC / CGWB Representative State WR/Irrigation Department Representative Local administrative officers e.g. CoZ, PD, DRDA, DDC etc. Representative of State Agriculture Department Representative of Water Supply Department / PHED Representative from Watershed Cell Representative from Department of Health from concerned State Representative from WUA, WALMI etc.	
3	**Member Secretary:** Nominated by Chairman of Committee	

Chairman may co-opt any member for the committee

Block Level Committee

Sl. No	Composition of Committee	Role of committee
1	**Chairman: Block Development Officer of concerned Block**	The plans / project report for works will be prepared by the Committee. The execution of works under abhiyaan will also be done under the supervision of the Committee. The committee should meet on weekly basis.
2	**Members:** Representatives from Departments of Agriculture / Horticulture / Watershed Development Representatives from PHED Representatives from WUAs Representatives from Panchayati Raj Institutions Representative from village water & sanitation committee. Gram Pradhan of the concerned villages	
3	**Member Secretary:** Nominated by Chairman of Committee	

Chairman may co-opt any member for the committee

Besides Monitoring and evaluation these committees shall provide knowledge sharing, Planning, Communication, Training, Technical support and Resources Pooling.

A format for reporting progress is enclosed as **Annexure - B**

8. FUNDING ARRANGEMENTS

8.1 Expenditure on various works proposed to be taken in each Jal Gram would be met from existing schemes of Central/State Governments, such as:

- Proposed Pradhan Mantri Krishi Sinchai Yojana,
- Repair, Renovation and Restoration of Water Bodies,
- Integrated Watershed Management Programme,
- Mahatma Gandhi National Rural Employment Guarantee Scheme,
- Information Education and Communication,
- Implementation of National Water Mission,
- Accelerated Irrigation Benefit Programme (AIBP),
- Dam Rehabilitation and Improvement Project, etc.

8.2 No separate outlay is proposed for the works.

8.3 Some funding for Information, Education and Communication activities shall be done by Mo WR, RD & GR. However, State Governments shall also utilize the funds available with them for carrying out similar activities.

8.4 The details of works / activities and the schemes from which the funds would be met are as follows:

Sl. No.	Work/Activity	Scheme
1	Comprehensive improvement of selected tank systems including restoration within the irrigated Commands.	RRR of water bodies/ CADWM Programme/ PMKSY
2	Renovation and de-silting of existing irrigation tanks.	NREGA

3	Minor Irrigation Schemes	NREGA / AIBP / PMKSY
4	Increase in storage capacity of water bodies and Ground Water Recharge	RRR / PMKSY
5	Correction of system deficiencies above outlet up to distributaries of 4.25 cumec (150 cusec) capacity. (Earth work)	NREGA
6	Correction of system deficiencies above outlet up to distributaries of 4.25 cumec (150 cusec) capacity. (other than earth work)	CADWM Programme
7	Survey, Planning and designing of OFD works	CADWM Programme
8	Construction of field channels	NREGA/CADWM Programme
9	Ground Water recharge through Dug well	NREGA
10	Reclamation of waterlogged areas/drainage	NREGA/ CADWM programme
11	Conjunctive use of Surface and ground water	NREGA
12	Popularisation of New Technological solutions for efficient use of water	IEC
13	Demonstrations	CADWM programme
14	Capacity Building of communities & their participation	CADWM & NERIWALM

Annexure - A

"Jal Kranti Abhiyan 2015-16"

-Format for Collection of Information

Ministry of Water Resources, River Development and Ganga Rejuvenation
New Delhi

"Jal Kranti Abhiyan"

'Jal Gram'--Format for Collection of Information

Part I: Information on Village details

1.	**State**	
2.	**District**	
3.	**Block/Taluk/Mandal**	
4.	**Gram/ Village**	
	Latitude	
	Longitude	
5.	**Terrain (Hilly, Plains, etc.)**	
6.	**Complete Postal Address of the Gram Panchayat**	
	(Sketch Map indicating location may be attached)	
	PIN Code	
7.	**Average Annual Rainfall (mm)**	
8.	**Population (no.)**	**Total**
		Below Poverty Line
9.	**Livestock Population (no.)**	
10.	**Agricultural Land (ha)**	
11.	**Principal Crops**	

Part II: Information on Available Water

12. Sources of Water	Functioning	Dry
No. of Dugwells		
No. of Shallow Tubewells		
No. of Deep Tubewells		
No. of Ponds		
Surface Minor Schemes		
Surface Lift Irrigation Schemes		
Other Rain Water Harvesting Structures, if any		
Whether served by any MMI Irrigation Project		

Project Name	
Village land Served in Command	

13. Domestic Water		
Whether 55 lpcd water available for each inhabitant		
Whether water source for each household is available within a distance of 100 meters		
Source of Drinking Water	(a) Piped WS (b) Tube Well (c) Any Other	
Drinking Water Quality Parameters	(a) TDS (b) Chemical (c) Biological (d) Other	

Part III: Vulnerability Assessment

14. Details about shortfall in water availability	Available	Estimation of Shortfall
Domestic		
Irrigation		

15. Details about On-going Central/ State Schemes	
Repair, Renovation & Restoration (RRR) of Water Bodies	
Integrated Watershed Management Programme (IWMP)	
National Rural Drinking Water Programme (NRDWP)	
National Rural Health Mission (NRHM)- reg. water quality aspects	
MNREGA	
Any Other- give details	

16. Suggestions for improving Water Availability for meeting Demand and achieving Water Security and any relevant schemes from above which can be leveraged for the same	(a) Dug Well (b) Tank Rejuvenation (c) Farm Pond needed (d) Surface water (e) Any Other

17. Any special conditions existing in the village which are not usually envisaged elsewhere	

***separate sheets may be used where space provided is inadequate.**

Annexure – B

Format for the reporting of Progress for Jal Kranti Abhiyan

Village:

Block:

State

S. No.	Activity	Target for the Year Physical / financial	Physical Progress Till Date	Financial Progress Till date