



**Draft
Framework
for
Setting up of
Jal Shakti Kendras (JSKs)**



**National Water Mission
Department of Water Resources, RD & GR
Ministry of Jal Shakti (MoJS)**



Introduction

The National Water Mission (NWM) was established in 2011 under the National Action Plan for Climate Change (NAPCC) with the objective of “conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and management”. The National Water Mission works on following five distinctive goals:

- i. Comprehensive water data base in public domain and assessment of the impact of climate change on water resource.
- ii. Promotion of citizen and state actions for water conservation, augmentation and preservation.
- iii. Focused attention to vulnerable areas including over-exploited areas.
- iv. Increasing water use efficiency by 20%.
- v. Promotion of basin level integrated water resources management.

A number of strategies have been identified for achieving above mentioned five goals which lead to integrated planning for sustainable development and efficient management of water resources.

Background

In order to work on the strategies and to support Jal Shakti Abhiyan: Catch the Rain campaign, State Governments are advised to set up ‘Jal Shakti Kendras’ (JSKs) in all the district HQs. These JSKs may act as resource and “knowledge centres” for disseminating information related to water, techniques for water conservation, water quality, grey water management and provide technical guidance to local people as well as the district administration in these matters.

Objectives

The rationale behind forming a JSK is to establish a localized centre that can help the local population with the solution on all water related activities. As water issues are impacted by the work of various Departments in the State Governments (e.g., Agriculture, Irrigation, Water Resources, Public Health Engineering, Land Resources, Soil & Water Conservation, Environment, Forest & Climate Change,



Rural Development), the Jal Shakti Kendras will provide a single platform to synergize data flows with different organizations and make the information available to local population. JSK will help the people in gathering and disbursing information related to any water related issue.

The broad objective of the JSK should be to promote, propagate and popularize the following: -

1. Implementation of water policies of the Central and the State Governments, including developing a data base of all the State water policies and its application and implication at the district level.
2. Support development of district water security plans – support Water resource Development and Rural Development departments (MGNREGA) in developing GIS based water security plans.
3. Knowledge and data sharing – Collect spatial data from various sources (Bhuvan, IMD, GSI, CGWB etc) for situational analysis of the district. Maintaining records related to water bodies in the district. The JSK can become a central depository and a technical support center for improved & superior Water technology for sustainable Water Management.
4. Dam safety plan and knowledge sharing on flood management in flood prone area.
5. Availability of drinking water, knowledge on quality of water and method of testing of quality of water.
6. Increase in water use efficiency:
 - i. Efficient irrigation techniques including micro irrigation.
 - ii. Grey water management and sewage treatment.
 - iii. Efficient use of saving water in domestic and industrial sector
7. Rejuvenation of river and rivulets and renovation of traditional water bodies.
8. Support the District administration in preparation of scientific water conservation plan.
9. Water harvesting techniques – Disseminate knowledge on the innovative models that can be adopted under various schemes to trap rain water based on local sub soil strata and climatic conditions.
10. Soil and moisture conservation (SMC) – Develop an inventory of activities of SMC based on data analysis done on GIS platform to suggest the appropriate



structure based on soil type and climate, hydrology and hydrogeology of the area.

11. Creating awareness regarding the importance of rainwater harvesting, both for immediate uses and also for improving the surface and groundwater regime and acting as a knowledge center.
12. Coastal water management in coastal districts.
13. For capacity building and training to stakeholders in all the above matters with equitable gender participation.

Roles

The JSK will assist the DMs/ Collectors to co-ordinate all activities related to water in the district. Although, this is not a fund providing centre but will function as a **facilitator centre** for the District Magistrates/ Collectors on water related issues including the planning and preparation. In addition, JSK will act as a **KNOWLEDGE CENTRE** for disseminating information related to any water related issue such as water conservation methods, water use efficiency, policies on ground water, efficient irrigation techniques, water quality, grey water management etc. and a technical guidance centre to advice local people on these matters. Officials of JSK may actively participate in important water related meeting and activities in the district.

It is also advised to encourage equitable gender participation in all the activities of Jal Shakti Kendras.

Requirements

The JSK may be set up properly equipped with proper technical team, infrastructure and technology having information about water and its related issues.

Indicative Template of a Model Jal Shakti Kendra

HEADING	DESCRIPTION	DETAILS
Location	Institutional structure	It is advised that JSKs may be set up in any institutional structure openly and easily accessible to public (24x7), preferably in District Magistrate's office or any place where there is public footfall. It has been observed that JSKs set up in office of Public Works

		Departments etc are not being accessed. So appropriate location with existing footfall may be chosen.
Physical Infrastructure	Name Plate	A Display Board (Name) may be placed outside the Kendra. A logo of JSK may be placed at appropriate places inside and outside of JSK.
	Space Requirement	<p>The JSK may be well-lit and properly maintained with an open-door policy to invite more visitors. It is advised that the preferably area of JSK may not be less than 300 Sq feet having three rooms/partitions.</p> <p>Room 1 may work as Facilitation Centre as well as Information Desk, having work station for setting up of systems of desktop computers for STO/ TO/ DEO.</p> <p>Room 2 may work as a visitor rooms which may have sufficient number of chairs and other suitable furniture items. This room may be used for training purposes also and may have LED screens displaying best practices.</p> <p>Room 3 may be used for keeping different working models of water related structures/ activities such as Dams, RWHS, Reuse and Recharge Structures, Sewage Treatment Plant, Models for water quality etc.</p>
	Desks/ Work Station	2 desks may be there, one as a work station for setting up of systems of desktop computers for STO/ TO/ DEO and one desk/table for keeping the working models of various water conservation methods and RWH.
	Furniture	Sufficient number of furniture items for the officers, staff and suitable chairs for visitors' sitting may be provided
	Display Board	A Display Board inside & outside of visitor room with QR code of Jal Shakti Kendras website for information.

Human Resource	Senior Technical Officer	One from technological background preferably have an understanding of soil, water and agriculture in the area. He can also act as a nodal officer for the district.
	Technical Officers	Two Technical Officers (TOs) having knowledge of ground water, soil, RWH, environment and water resources management, grey water management, knowledge on water quality etc. These TOs may be of different field depending upon the agro climatic zone of the district where JSK may be set up. Local district authorities may decide about the technical knowledge of TOs based on their requirement. A few of the examples are defined as under: - <ol style="list-style-type: none"> 1. Hilly district may have TOs having knowledge on spring-shed management besides having knowledge on above matters. 2. Coastal districts may have TOs having knowledge about coastal water management. 3. In flood prone districts TOs may have knowledge about flood management also. 4. These are just guidelines for a TO. District authorities may decide about the qualifications and knowledge of TOs based on their specific area-wise requirements.
	Data Entry Operator	One Data Entry Operator for help-desk support. He will also provide information on facilitation desk.
Information Technology	Landline	The JSK should have a landline number or a toll free help line no. They can be synced with an existing helpline number, who can also be trained to answer factual queries.
	Mobile	The JSK should have a mobile number which could be used to generate awareness or information transference via digital technology.

Desktop Computer	Desktop computers may have all the necessary documents. Literature and information manuals as per Annexure I. This is an indicative not an exhaustive list of documents. District may have much more literature and documents as per their requirements.
Laptop	One laptop in case of on-ground trainings and for presentations
Internet	Should have access to internet.
Website	Every district should have a website of their JSK highlighting their progress and achievements as well as having all water related data in the site itself which can be part of the existing District Website. The link for the website/web page may be publicised at the JSK along with QR Code so that people can easily visit the website by scanning the QR code and get information at their own pace/convenience. The QR code could be placed outside JSK as well so that even on holidays and outside office hours when JSK is not open, information can be accessed.
LED TV/Projector	Audio-visual content to be played on TV/ Projector system for the visitors/ training person in case possible.
Posters, Pamphlets, Brochures, Instruction manuals and Training Calendar	It is advised that sufficient literature, Information, technical manuals and other instructional manuals may be available in JSKs on water related activities such as water data of the district, existing water bodies, other existing practices like micro irrigation, water conservation & rainwater harvesting, renovation of traditional and other water bodies/ tanks/ step-wells/ baolis, reuse & recharge structures, watershed development, revival of wetlands, protection of flood banks, protection of water catchment area, and spring shed development based on region's hydrology and topography. The language of these manuals must be in

		<p>English, Hindi and the local regional languages. It should also have diagrams and flow-charts for even a layman to comprehend.</p> <p>A number of large sized colourful poster panels highlighting the value of water and different focus areas of water related activities may be kept on permanent exhibition in the JSKs.</p>
Funding	Funds from NWM, States and others	<p>Sustainable source of funds could be mobilized from convergence of existing district resources from the available resources of Central & State Government/ District Authorities, CSR funds, bilateral or multilateral funds etc.</p>
Support from State and Central Department		<ul style="list-style-type: none"> ● A few technical personnel of various Central and State Departments like State Water Resources Department, Command Area Development Authority, State Public Works or Public Health Engineering Department, State Agricultural Department, Krishi Vikas Kendra, Central Water Commission and Central Ground Water Board may be placed with JSK permanently or on rotation. ● The Jal Shakti Kendra may act as information dissemination centre for different stakeholders on water resources including Panchayat representatives & public activists for more awareness on relevant issues. The JSKs may share the information collected with other departments such as Panchayati Raj (for inclusion in Gram Panchayat Development Plans) and KVKs for improving water use efficiency in agriculture sector. ● A state level nodal officer may be entrusted with the responsibility of ensuring timely updating of

		data of JSKs on the JSA CTR portal by all the districts of the respective states. Overall monitoring would be done by Ministry of Jal Shakti.
Capacity building and training	Involvement of Mother NGO and other NGOs	One of the objective of JSK is to impart capacity building and training to stakeholders on the objectives of JSKs. Apart from capacity building initiatives of the States from its own resources. Govt of India will endeavour to provide the support of NGOs for States. MOJS, Govt. of India may facilitate in providing the details of a mother NGO for partnering for JSKs. Mother NGO will have support of a number of NGOs working in different areas. State may collaborate with these mother NGOs and their subsidiaries NGOs for the running, maintenance, operation and for the betterment of JSKs.
Rough Estimate for Setting up and Maintainance and Operation of JSKs		A ballpark figure of estimates is also attached with this advisory as Annexure II, to have a tentative idea of expenditure on setting up and for maintenance and operation of JSKs. It may be customized as per the prevailing norms, conditions and requirement of the State/ District.

Conclusion

JSK will promote, propagate, and popularize the knowledge on water related matters. JSK has the capability of becoming a District Nodal Agency for water related works and consequently, it can act as a coordinating agency for all the stakeholders involved in water related activities.



Annexure I

List of Documents suggested to be available in soft in the JSKs

1. Latest National Water policy and State Water Policy.
2. Act and/ or Guidelines of CPCB/ State PCBs on water regulations.
3. Any other Act/ Rule(s)/ Guidelines on Water/ Irrigation issued by Central Govt. or State Govt.
4. The Water (Prevention and Control of Pollution) Act and Environmental Protection Act such as
 - The Water (Prevention and Control of Pollution) Act, 1974
 - The Water (Prevention and Control of Pollution) Cess Act, 1977
 - The Water (Prevention and Control of Pollution) Cess Rules, 1978
 - The Environment (protection) Act, 1986
 - The Environment (protection) Rules, 1986
5. Latest copy of Composite Water Management Index issued by NITI Ayog.
6. Guidelines issued by Centre or State on Research and Development on Impact of climate Change on Water Resources.
7. Latest Guidelines issued on Water Use Efficiency in all three sectors i.e. Agriculture, Industrial and Domestic.
8. Manuals and Guidelines issued by CGWB and MoHUA on Artificial Recharge and Artificial recharge Structures such as: -
 - Manual on Artificial Recharge of Ground Water, Central Ground Water Board
 - Rain Water Harvesting & Conservation Manual-CPWD
 - Master Plan to Ground Water Recharge 2020, Central Ground Water Board
 - Model Building Bye-Laws 2016, Ministry of Urban Development
 - Rain Water Harvesting Conservation Manual 2019-CPWD(Updated)
 - Guide on Artificial Recharge to Ground Water, Central Ground Water Board



9. BIS Standards on various water related issues including Quality of Water, Dam safety, WUE, STPs, Grey Water Treatment, Rain Water Harvesting and their structures such as: -
 - BIS Drinking Water Standards: IS: 10500:2012
 - Guidelines for the Quality of Irrigation Water IS: 11624:1986
 - IS 15797 2008 Roof Top Rain Water Harvesting Guidelines
10. The Coastal Regulation Zone Notification, 2011 & 2019.
11. Guidebook on S&T Interventions for Ponds Rejuvenation.
12. Resource Book-on-Spring-shed Management, NITI AAYOG.
13. Map of important Water Resources Structure like Dams, Barrages, Canals, Canal Regulators, Canal Outlets, Minor Irrigation Structure, Government Pump Houses, etc. in the district.
14. Details of Water User Association or similar institution in the District and contact details of their nodal person.
15. Details of water quality and soil labs in the district.
16. Documents on water quality and grey water management may also be available in JSKs.
17. Documents on the post-monsoon impacts on the quality and exploitable quantity of groundwater in places where RWH has been implemented.
18. Documents on the success stories of JSA: CTR in the District.
19. Rainfall data and other Meteorological Data of the District.
20. Documents on the traditional water harvesting systems in the district.
21. Documents on the freshwater demand and their present sources (both surface and sub-soil) in the district.
22. Documents on the interventions of JSA: CTR made till now in the district (both by individuals and NGOs). This will be useful for arranging field trips during training programmes.
23. Documents on the Ground water levels and quality analysis of a few monitoring wells in the district. This will give us the base data and will be useful when we try to study the improvement in the exploitable quantity and quality due to JSA: CTR after a few years.
24. Information about the details of the water bodies of the districts.



25. Documents on the soil profile (lithology) in various areas within cities and towns as well as in rural areas should be collected and put on the website. This is necessary to design RWH recharge structures and to understand the aquifer pattern.
26. Directory- which includes contact details of all officials and resource person of water sector in the State and the District. This may essentially include contact details of support person of various Departments like State Water Resources Department, Command Area Development Authority, State Flood Control Department, State Public Works or Public Health Engineering Department, State Agricultural Department, WALMI or similar Organisation, Krishi Vikas Kendra, Important concerned officials in District Administration, State Disaster Management Authority, Central Water Commission, Central Ground Water Board, IMD, Water Quality labs of various departments in district, Soil testing labs in district etc.
27. Are specific documents/ literature may also be available in the JSK based on Climatic condition and sub soil strata of the area such as Documents for Arid Zone, Flood Zone, Hill area, Snow fall area, Coastal Area etc.
28. Information about Flood Forecasting Station in the District; current status of Flood situation and details of flood warning if any.
29. JSK may ensure that they are included in various Whatsapp Group, SMS Group email group etc. created for dissemination of water related information like, flood situation, rainfall situation, Agricultural Advisory, Disaster situation etc.
30. Information about training programme conducted by various government departments like WALMI, CGWB, KVK, etc. in/for the district.

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Annexure II **Approximate Financial Estimates for Setting and operating** **Jal Shakti Kendras in the districts**

This estimate is a ballpark figure so it is a rough financial estimate which may be customized as per the prevailing norms, conditions and requirement of the State/ District. This has been prepared to have a tentative idea of expenditure on setting up and maintaining of JSKs.

1. One time cost/ Expenses:

<u>S.N.</u>	<u>Particulars</u>	<u>Amount In Rs</u>
1.	Cost of Civil Work for addition/ alteration and repair to existing Rooms in a Govt building, Provision of two display boards, ACs	3,00,000.00
2.	Cost of preparing poster panels as exhibits in the Jal Shakti Kendra and booklets on rain water harvesting in English and the local language	50,000.00
3.	Cost of Desktops/ laptops, Printers, UPS landline/ mobile phone, internet connection, other digital accessories etc.	3,00,000.00
4.	Cost of furniture items for the officers, staff as well as chairs for the visitors	2,00,000.00
5.	Cost of Projector system, screen or a big LED Panel	1,00,000.00
6.	Cost of Books, Journals, in soft copies	20,000.00
7.	Cost of Working models	1,00,000.00
8.	Miscellaneous Expenses	30,000.00
	TOTAL of One Time Expenditure=	11,00,000.00

2. Recurring Expenditure Per Annum:

<u>S.N.</u>	<u>Particulars</u>	<u>Amount per Annum in Rs</u>
1.	Rent of the Building/ Infrastructure	0.00
2.	Salary for one Senior Technical Officer (full time) @ Rs.60,000/- per month	7,20,000.00
3.	Salary for two technical resource person (full time) @ Rs.35,000/- per month	8,40,000.00
4.	Salary for one Data Entry Operator (full time) @ Rs.15,000/- per month	1,80,000.00
5.	Electricity, Water and other contingency charges @ Rs.15,000 per month	1,80,000.00
6.	Annual Maintenance of building, furniture, Models and other infrastructures	50,000.00
7.	Annual maintenance and upkeep of PCs, Laptops, Printers, Projector System, LED Panels and other digital items	60,000.00
8.	Misc items of Contingencies including Cartridges, Stationaries etc	20,000.00
	TOTAL of Recurring Expenditure per Annum=	20,50,000.00

A few of the Photographs of Jal Shakti Kendras



Jal Shakti Kendra – Village: Rajouri, District: Rajouri, State: Jammu and Kashmir







