

## Open Call for Empanelment of Sector Experts

### Rolling advertisement for inviting applications for 'Empanelment and Deployment of Sector Experts' for ground truthing and technical assistance in Implementation of Jal Jeevan Mission – Uttar Pradesh at ground level

1. Government of India has launched 'Jal Jeevan Mission' as one of its national flagship programme with the objective to provide safe and adequate drinking water to all rural households in the country by 2024. Jal Jeevan Mission-'Har Ghar Jal' is being implemented in partnership with States/ UTs to provide potable water through Functional Household Tap connection (FHTC) with the focus on quantity, quality, and affordability of water supply on regular and long-term basis.

2. State Water and Sanitation Mission, Uttar Pradesh invites online applications from eligible candidates for "Empanelment and Deployment as Sector Experts" professionals having experience in water supply and sanitation sector for ground truthing and providing technical assistance in implementation of Jal Jeevan Mission at ground level under following categories:

S. No.	Category of Expert
1.	Regional/ bulk water supply expert
2.	In-village water supply expert
3.	Hydrogeology expert
4.	Solid and Liquid Waste Management Expert
5.	Community mobilization expert
6.	Water quality expert

3. The Sector Expert will be engaged till the maximum age of 65 years. The maximum age limit should not exceed 64 years on the date of submission of application for empanelment as "Sector Expert" for all these aforesaid categories.

4. Motivated individual with strong desire in improving delivery of water services will be empaneled under various categories, as stated in para 2 above, up to 31.12.2024. Very strong moral and ethical standards in conduct are expected from empaneled Experts. The Experts will be dropped, if quality of output or standard of behavior, punctuality, discipline etc. are not found up to the mark.

5. To know more about eligibility, experience, terms of engagement and how to apply and participate in this nation building exercise please visit the detailed guidelines and terms of reference for empanelment of sector experts **annexed** below.
6. This is an open call for application. All the applications that are received through portal will be reviewed and response will be provided.

*Jai Jeevan Mission*  
*Building partnership, changing lives*

## **Guidelines and terms of reference for empanelment of sector experts**

### **Detail of scope of work, educational qualification and experience, eligibility criteria required for each category of experts, norms for honorarium, travel and other allowances admissible to empaneled Sector Experts**

#### **1. Introduction**

Announced by Prime Minister on 15<sup>th</sup> August 2019, Jal Jeevan Mission (JJM) is being implemented in partnership with States/ UTs to make provision of tap water supply to every rural household. Following the principle of 'equity & inclusion', JJM adopts saturation approach in villages ensuring 'no one is left out'. As on 1<sup>st</sup> April, 2022, 107 districts and over 1 lakh 45 thousand villages have become 'Har Ghar Jal'.

Although one of the largest infrastructure programmes, JJM envisions a shift from mere 'infrastructure creation approach' to 'service delivery approach' by developing local water utilities. Thus, it is being implemented as a decentralized, demand-driven and community-managed programme wherein Gram Panchayat and/ or its sub-committee, i.e. Village Water & Sanitation Committee (VWSC)/ Pani Samiti plays a key role in planning, implementation, management, operation & maintenance of in-village water supply systems on regular and long-term basis.

To ensure that the works under JJM are implemented as envisaged, i.e., with the emphasis on 'service delivery', there is a need to review at village level assessing its implementation. The National Jal Jeevan Mission (NJJM) facilitates the States/ UTs and employs certain mechanisms to understand field-level implementation, viz. regular field visits to different villages and providing technical support based on observations, working with sector partners, annual Functionality Assessment on water supply, adequacy, quality, quantity, satisfaction, working of tap connections, etc.

It is noteworthy to mention here that JJM work is to be taken up in more than 98,455 villages spread across in 75 districts of the State. Currently in its 3<sup>rd</sup> year of implementation, approximately 52% of functional household tap connection has been completed under JJM. This is the 'speed and scale' at which the mission is progressing. Monitoring this work and seeing on ground is posing a huge challenge.

In order to ensure appropriateness of investment and implementation of JJM in true letter and spirit, there is a need to continuously visit the villages, to provide

technical assistance for field level implementation and carry out an independent assessment in villages by domain experts, who will visit the villages, review the implementation, and provide inputs for necessary corrective action to respective districts.

In order to cover maximum villages of Uttar Pradesh, a panel of sector experts is to be empaneled. On the requirement basis, a team of experts may be asked to undertake 3 trips per month of 4 days duration each in the districts. Teams can cover 4 villages per day and villages visit can normally be taken for 3 days in 4 days visit. Thus 12 villages can be covered in one trip. These experts will review the implementation of JJM in villages covering various aspects, *inter alia* which include:

- I. Review of design/ estimates of new water supply schemes and appropriateness of
- II. Investment.
- III. Implementation of water supply schemes as per JJM guidelines.
- IV. Long-term source and system sustainability.
- V. Tap water connections to public institutions and households especially weaker sections.
- VI. proper institutional arrangement for implementation and O&M.
- VII. convergence of fund.
- VIII. water quality monitoring & surveillance.
- IX. water supply to cattle troughs, washing and bathing complex, etc.
- X. public grievance redressal system.
- XI. preparedness of GPs/ VWSCs/ Pani Samitis for operation & maintenance of the water supply systems, grey water management; and
- XII. use of 15th FC tied grant for water & sanitation for assured service delivery.

## **2 Scope of work of experts**

Broadly, the scope of work is divided as 'general' which is applicable for everyone and 'specific' which is related to their area of expertise as under:

### **General scope of work (applicable for all experts)**

All experts visiting a village are to interact with village community and take feedback, make observations on all aspects of Jal Jeevan Mission, and provide inputs accordingly. The different aspects to be covered are as under:

**a) Implementation of water supply work in villages**

- I. Appropriateness of investment.
- II. Quality of implementation as per plan.
- III. Community participation in planning and community contribution.
- IV. Verification of coverage status of tap water connections in the villages as reported in the JJM-IMIS.
- V. Status of supply in terms of quality, quantity, and regularity by taking sample from few house hold taps including tail end; and
- VI. Equity of water supply to various habitations in village.

**b) Adequacy of source of water supply/ delivery point**

- I. adequacy of availability of water;
- II. treatment being provided before distribution;
- III. issues related to regularity of supply; and
- IV. capacity of community to manage and maintain the source.

**c) O& M arrangement of water supply work in villages**

- I. verification of O&M arrangements of in-village infrastructure;
- II. availability of local plumber, electrician, fitter, pump operator, motor mechanic, etc. and ability of the local community to resolve the small water supply issues;
- III. effectiveness of grievance redressal mechanism;
- IV. collection of water usage charge and financial sustainability;
- V. maintenance of records and adoption of IT based systems to function as local public utility; and
- VI. status of disinfection/ chlorination, treatment of water, etc.

**d) WQMS activities in the village**

- I. access of the testing of water quality using FTKs at village level and its effectiveness;
- II. verification of FTK trained personnel in village;
- III. ease of access to labs/ awareness among people regarding availability of water quality testing to the public by the labs, etc.; and
- IV. Status of treatment unit e.g. filtration units, chlorinators, etc. used to treat water before supply to village.

**e) Source sustainability, Solid and Liquid Waste Management and grey water management**

- I. Implementation of source sustainability measures and grey water management;
- II. convergence of fund for in provision of GWM, source sustainability for five years; and,
- III. appropriateness of source sustainability, SLWM and grey water management.

**II Specific scope of work: Based on their respective domain of expertise, specificscope of work relevant to JJM will be as under:**

#### **a) Regional/ bulk water supply expert**

- I. assess the design and estimates and carry out techno-economic feasibility;
- II. review of the quality of construction and material used and operation & maintenance of assets;
- III. monitor the implementation of large MVS/ Regional/ Bulk water transfer schemes as per planning;
- IV. scrutinize the report of source finding committee and review the implementation of source recharging proposals to ensure long term source sustainability;
- V. assess whether the JJM implementation is following the mission guidelines and identify the deviations for undertaking corrective actions by stakeholders; and
- VI. The working/ maintenance of CWPPs/ WTPs, pumping stations, distribution systems, storage structures, etc. may also be monitored by such experts.

#### **b) In-village water supply expert**

- I. Monitor the implementation of in-village water supply infrastructure as per the approved DPR/ estimate.
- II. Review the appropriateness of the investment, utilization of existing infrastructure, capacity of VWSC/Pani Samiti to operate and maintain the scheme.
- III. Techno-economic appraisal.
- IV. review the quality of construction and material used and operation & maintenance of assets;
- V. Assess the performance of the distribution network -residual pressure at the tail-end, leakage, unauthorized drawl, adhering to the schedule of water supply, cleaning of water tanks/ underground sumps, functioning of pumps, star rating of pumps, etc.;
- VI. Check that there is no design constraint for equitable distribution;
- VII. Scrutinize the report of source finding committee and implementation of source recharging proposal;
- VIII. Assess whether the JJM implementation is as per mission guidelines and identify the deviations for undertaking corrective actions; and
- IX. Verification of O&M arrangement, availability of tool kits, emergency spare parts, capacity building/ training of plumbers, electricians, and fitter, etc.

#### **c) Hydrogeology expert**

- I. Assessment of availability of water sources in the village to ensure long-term sustained water supplies in adequate quantity, of prescribed quality and on long-term basis;
- II. Observation on identification & appropriateness, designing and construction of water source structure for drinking water supply; and
- III. Review of source strengthening and source sustainability action plans.

#### **d) Solid and Liquid Waste Management expert**

- I. Adequacy of Solid and Liquid Waste Management Plan, Grey Water Management plan of village;
- II. Implementation of SLWM plan, grey water management system as per plan; and
- III. Observation on collection, treatment, disposal and reuse strategies of SLWM & grey water.

**e) Community mobilization expert**

- I. Assess role of VWSC/ Pani Samiti in village & performance to supply water service delivery in their jurisdiction;
- II. Review water supply from equity and inclusiveness point of view;
- III. Review the coverage and reach of the scheme in respect of SC/ ST and other marginalized households;
- IV. Observation on the grievance redressal mechanism in the village;
- V. Community mobilization & their participation in planning, implementation, O&M and service delivery;
- VI. Assess community contribution towards capital cost and verify whether the VWSC/ Pani Samiti has been informed about the taking over of O&M of in-village infrastructure & review the bank account, and what is fund flow arrangements, etc.;
- VII. Scrutinize the Village Action Plan (VAP), participation of women and marginalized section in VWSC/ Pani Samiti & frequency of meetings conducted, etc.;
- VIII. viii) Assess the various components of VAP such as grey water management, action taken or proposed for long term source sustainability, O&M, etc.;
- IX. Review whether the convergence of funds from various other government schemes i.e. 15 th Finance Commission tied grant for water & sanitation, Swachh Bharat Mission, DMDF, MGNREGS, CSR, etc. is undertaken in the village;
- X. Monitor the adequacy of signage boards at site, slogans in the village in line with guidance given in the "Margdarshika" for gram Panchayat & VWSC by NJJM;
- XI. Examine the certificate declaring 'Har Ghar Jal' village;
- XII. Examine the composition of VWSC/ Pani Samiti and its functioning in light of JJM guidelines;
- XIII. xiii) Examine the record keeping by VWSC/ Pani Samiti for O&M, community contribution, IEC and training activity by ISA & other agencies;
- XIV. xiv) Functioning of VWSC/ Pani samiti as local public utility for service providing; and xv.) opinion of community, about the functionality of water supply scheme.

**f) Water quality monitoring expert**

- I. Water quality testing undertaken by the different levels of water quality laboratories and verify the uploading of test results in the WQMIS portal;
- II. Review working of Labs, capacity utilization, turnaround time of sample etc;
- III. Ease of access to labs/ awareness among people regarding availability of water quality testing to the public by the labs; and
- IV. Working of CWPPs/ WTP, pumping stations, distribution system, storage structures, etc. from a water quality perspective, etc.

### **3.Educational qualification/ experience eligibility criteria of experts**

#### **a) Regional/ bulk water supply expert**

- V. The applicant should have bachelor's degree in civil/ Mechanical engineering; and
- VI. The applicant should have 10 years of relevant experience in planning/ design/ implementation/ maintenance of one or more of the bulk water transfer schemes/ MVS/ RWSS/ WTPs for water supply schemes; or
- VII. The person worked/ retired from the rank of Chief Engineer/ Superintending Engineer or equivalent and with experience in planning/ design/ implementation/ maintenance of one or more of the water supply schemes in Public Health Engineering (Water supply and Sanitation) Department of States.



### **b) In-village water supply expert**

- I. The applicant should have Degree/ Diploma in Civil/ Mechanical Engineering or Master's or higher degree in hydrology or related field; and
- II. The applicant must have 10 years of relevant experience in planning/ design/ implementation/ maintenance of one or more of the water supply schemes in public or private sector; or
- III. The person has worked/ retired from the rank of Executive Engineer or equivalent from Public Health Engineering of a Government Department; or
- IV. The applicant has minimum 10 years' experience in water hydrology and designed the recharge structures/ water conservation plan, etc.; or
- V. The person has 10 years' experience implementation/ O&M of WTPs/ CWPPs for water supply schemes.

### **c) Hydrogeology expert**

- I. The applicant should have bachelor's degree in science; and
- II. The applicant should have at least 10 years' experience in hydrogeology, aquifer pattern study, groundwater recharge structures, rainwater harvesting, groundwater recharge, determining the potential yield of bore well & determining its sustainability, catchment protection, watershed management, soil ability to visualize geology and conceptualize groundwater flow and read, understand the interpretation of hydrogeological data, HGM maps, GIS data, remote sensing data & reports, understand groundwater contamination, etc.

### **d) Solid and Liquid Waste Management Expert**

- I. The applicant should have bachelor's degree preferably in environmental engineering or Public Health Engineering or Environmental Science or Water and Sanitation; and
- II. The applicant should have 10 years of relevant experience in planning/ design/ implementation/ maintenance of one or more of the SLWM, grey water system in rural and urban areas;

### **e) Community mobilization expert**

- I. The applicant should have bachelor's degree preferably in humanities, science or social work; and
- II. Experience of having worked in social sector for at least 10 years. The experience in water supply sector, water resource or natural resource management will be preferred.

#### **f) Water quality expert**

- I. The applicant should have bachelor's degree in Chemistry / Environmental Science or degree in science with Chemistry in final Year .
- II. The applicant should have 10 years of experience in water quality testing; or
- III. The person worked/ retired from the rank of Chief Chemist in Public Health Engineering (Water supply and Sanitation Department) of States/UTs; or
- IV. The applicant should have minimum 10 years of experience of working in any labs of Union Government/ State Government, as chemist/ microbiologist.
- V. Apart from the above-mentioned eligibility criteria, the experts are to have a highly functional working knowledge of MS Office and be conversant with digital medium, viz. use of internet, communication via e-mail, and understanding of digital knowledge platforms like JJM - Integrated Management Information System (IMIS).
- VI. Age limit

The Sector Expert will be engaged for a maximum age of 65 years. The maximum age limit should not exceed 64 years on the date of submission of application for empanelment as Sector Expert for all the categories. Maximum age limit may be relaxed in case necessary.

#### **4 . Duration of engagement of experts**

Motivated individual with strong desire in improving delivery of water services will be empaneled under various categories up to 31.12.2024. Very strong moral and ethical standards in conduct are expected from empaneled Experts. The Experts will be dropped, if quality of output or standard of behavior, punctuality, discipline etc. are not found up to the mark.

#### **5 . Honorarium and other allowances**

The honorarium and other allowance to empaneled Sector Experts will be admissible as under: -

#### **a) Journey by Rail**

The Sector Experts will be entitled to reimbursement of fares for journeys performed on official duty by different means of transport as given below subject to actual expenditure: -

- I. Sector Experts are allowed for AC-II tier in case the journey performed by train.
- II. The Sector Experts should submit all their documents in support of the claim in original for reimbursement.
- III. To and fro booking of tickets for Rail journeys should be made in advance after finalizing the inspection programme only through Indian Railway Catering and Tourism Corporation (IRCTC).

- IV. Any cancellation of the tour programme may be made only after receipt of written communication from SWSM.

**b) Journey by Road**

- I. All Sector Experts may travel by road by any public transport and will be reimbursed actual fare subject to production of the receipt.
- II. If the Sector Expert travels by taxi, the reimbursement will be restricted to rail fare as per entitlement subject to actual. The claims should be supported by a bill/ receipt for travel by taxi. Taxi fare at rates prescribed from time to time will be allowed in cases where places are not connected by rail. The current prescribed rate for taxi is Rs. 15 per km.
- III. For travel by own car, claim will be regulated as in sub-Para-ii or iii above, as applicable.

**c) Lodging Charges during journey**

- I. In case arrangement for stay is made by State Government, no lodging charges will be payable. However, where no lodging arrangement are made by State Government, Sector Experts will be paid actual lodging charges limited to Rs. 3500/- in case of principal cities and up to Rs. 2500/ in other places subject to production of original receipt.
- II. A certificate should be clearly given on the TA bill that lodging/boarding arrangement has not been made State/ UT authority. In case lodging arrangement is made by the State/ UT authority no reimbursement of lodging charges will be made.

**d) Honorarium**

- I. Honorarium for each day of field inspection and discussions with State authorities and the other concerned staff will be paid at prescribed rate from time to time. The present rate of Honorarium is Rs. 5000/ per day.
- II. Honorarium will be paid only for the days of inspection/duty in SWSM. Honorarium for during transit days will not be admissible.
- III. The Sector Experts are expected to undertake 03 trips per month of 4 days duration each in the State. A team of two experts is expected to cover 4 villages per day and Honorarium is normally restricted to three days in 4 days treating one day as transit time.

## **6 . Deliverables**

- i. Each Expert will be expected to submit their detailed report within 1st week of the visit.
- ii. The corrective actions wherever required, would be suggested to Districts to improve the implementation.
- iii. Review and comments on inputs of Districts to act implement the JJM in letter and spirit with required pace maintaining the desired standards.

## **7 . How to apply**

The interested eligible applicants may apply online after registering and logging in the online application portal (<https://jjmup.com>) and uploading the self-attested documents i.e. copy of Pension Payment Order (PPO) in case of Government retired officers and 10" class certificate, highest education qualification certificate, work experience and recommendation certificate in case of freelance professionals from the respective organization with which currently working or worked. This is a rolling online advertisement, and the applications will be reviewed from time to time as per requirement.