

**GOVERNMENT OF INDIA  
MINISTRY OF RURAL DEVELOPMENT  
DEPARTMENT OF RURAL DEVELOPMENT**

**LOK SABHA  
UNSTARRED QUESTION NO. 257  
ANSWERED ON 02/12/2025**

**TECHNOLOGY BASED INTERVENTIONS UNDER MGNREGS**

**257. Shri Ganesh Singh:**

**Will the Minister of RURAL DEVELOPMENT be pleased to state:**

- (a) whether any technology-based interventions have been implemented for the effective and transparent implementation of Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) and if so, the details thereof;**
- (b) the manner in which the use of these technology interventions- National Mobile Monitoring Service (NMMS), Area Officer Monitoring App, GeoMGNREGS, Yuktdhara Portal, SECURE Application, and JALDOOT App--improved worksite monitoring, asset creation and transparency, the details thereof;**
- (c) the impact or improvement seen in work execution, monitoring and employment generation as a result of these technological improvements in the country and specifically in Satna district, Madhya Pradesh; and**
- (d) whether there is any action plan to integrate advanced technological tools such as Artificial Intelligence (AI), Geographic Information Systems (GIS) and data analytics into MGNREGS to ensure greater efficiency and transparency?**

**ANSWER**

**MINISTER OF STATE IN THE MINISTRY OF RURAL DEVELOPMENT  
(SHRI KAMLESH PASWAN)**

**(a)&(b): Mahatma Gandhi National Rural Employment Guarantee Scheme (Mahatma Gandhi NREGS) is a demand driven wage employment Scheme. The Scheme is implemented on an end-to-end integrated transaction-based Management Information System (MIS) platform called NREGASoft. Through this, all aspects relating to planning, administrative and technical approval of the scheme, issue of job cards, acceptance of demand, issue of muster roll, measurement of work, approval of payment and finally payment to**

**the beneficiary through a Direct Benefit Transfer (DBT)-Public Financial Management System (PFMS) platform are monitored.**

**Through various technological interventions, the Ministry of Rural Development has adopted a robust process for ensuring transparency and accountability in the implementation of the scheme across the States/UTs. A brief note regarding the various technological interventions done for monitoring and evaluation for ensuring the proper utilization of the funds released under the scheme is given at the Annexure.**

**(c): Various technology-driven reforms under Mahatma Gandhi NREGS such as e-Muster roll, Aadhaar-based payments, Geo-tagging of assets, real-time MIS monitoring, National Mobile Monitoring System(NMMS), Area Officer App, SECURE, Yuktdhara planning portal and Jaldoot App have collectively improved the accuracy of work execution, strengthened transparency, ensured timely wage disbursement and enhanced overall programme efficiency across rural areas of the country. These interventions have been beneficial for whole country including District Satna, Madhya Pradesh, where digital attendance, geo-tagged work progress and MIS-based planning have resulted in better verification of works, improved monitoring by field functionaries and more timely employment generation in response to local demand.**

**(d): Ministry has initiated multiple action plans to integrate advanced technologies such as Artificial Intelligence (AI), GIS, and data analytics into Mahatma Gandhi NREGS to enhance efficiency, accuracy, and transparency. Key initiatives include:**

**(i) AI driven monitoring with eKYC and Face Authentication: Use of AI/ML tools, Aadhaar based eKYC, and Face Authentication under NMMS is being strengthened to ensure genuine worker identification to prevent proxy attendance and to improve transparency.**

**(ii) GIS based planning and tracking: Expansion of GIS platforms like Yuktdhara and GeoMGNREGA to enable scientific planning, geo tagging of assets and real time spatial monitoring of works.**

**(iii) Data analytics for decision making: Advanced analytics dashboards are being developed to monitor fund flow, work progress, labour demand trends, and performance indicators at national, state, and district levels.**

**(iv) Automation in measurement and verification: Digital tools such as SECURE are being strengthened to automate measurements, reduce human errors, and ensure transparent linkages between physical and financial progress.**

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**Annexure referred to in reply to parts (a)&(b) of Lok Sabha Unstarred Question No. 257 dated 02.12.2025.**

- i. Direct Benefit Transfer (DBT):** Direct Benefit Transfer (DBT) system in wage payment has been adopted under Mahatma Gandhi National Rural Employment Scheme (Mahatma Gandhi NREGS). The payment of wages to the bank/ post office accounts of Mahatma Gandhi NREGS workers is through National Electronic Fund Management System (NeFMS)/Electronic Fund Management System (eFMS).
- ii. National Mobile Monitoring Service (NMMS):** It enables capturing of attendance of workers at Mahatma Gandhi NREGA worksites (except for individual beneficiary works) along with geo-tagged photograph twice in a day. This app aids in increasing citizen oversight of the programme. This is one more step towards transparency and accountability.
- iii. Area Officer Monitoring Visit Application:** This App facilitates the officials of the State/UT to record their field visit findings online. The App also allows the officials to record time stamped and geotagged photograph for all the schemes launched by Department of Rural Development. Also, this App helps in developing hassle-free reporting of the field visits. This app records the field visit findings and views the field visit outcome report by the senior officials.
- iv. GIS based plan– Use of Space Technology:** GIS based GP level plan (ridge to valley approach) preparation using Remote Sensing technology in a saturation mode for all the GPs of the country.
- v. Yuktdhara :** GIS based planning tool – To simplify the GIS based planning at GP level under Mahatma Gandhi NREGA “Yuktdhara” a Geospatial planning portal has been developed in collaboration with ISRO-NRSC.
- vi. SECURE – Software for Estimate Calculation for using Rural Rates for Employment :-**Application is being used to estimate the cost of works to be undertaken under the scheme.
- vii. GeoNREGA:** the app has been developed by using Space Technology to track the creation of assets by geotagging it, at “Before”, “During” and “After” stages of the asset creation.
- viii. JALDOOT App:** JALDOOT app has been developed to enable monitoring of ground water tables across the country. The Jaldoot app enables Gram RojgarSahayak (GRS) to measure the water level of selected wells twice a year (pre-monsoon and post-monsoon).

- ix. JANMANREGA App: This app helps in proactive disclosure of information to its citizens in reference to the implementation of Mahatma Gandhi NREGS. Citizen awareness is a key to efficient, effective, and transparent execution of the scheme.**
- x. Ombudsperson App-An Ombudsperson App has been developed for smooth reporting and categorization of grievances received from various sources viz. physical, digital and mass media related to the implementation of the Mahatma Gandhi NREGS, easy tracking and timely passing of awards on each case as per the guidelines and easy uploading of quarterly and annual report on the website.**
- xi. Social Audit: As per the mandate of the Act, the Ministry has laid emphasis on the setting up of an institutional structure at the States/UTs level for facilitating social audits of all the Gram Panchayats at least twice a year. With the consistent efforts by Ministry, a total of 27 States and 1 UT have established Independent Social Audit Units. Through use of Panchayat NIRNAY app developed by Ministry of Panchayati Raj, Social Audit has further been strengthened as it increases community involvement and transparency. Through this App schedule, agenda, decisions taken during the social audit gram sabha can be viewed.**

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