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# REC Limited

(Formerly Rural Electrification Corporation Ltd)  
(भारत सरकार का उद्यम) / A Government of India Enterprise  
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No. REC/CO/PMD/QA/DDUGJY/Field Insp./ 1057

Dt: 27.12.2018

To,  
The CMDs/MDs/Commissioner (Power)  
Discom(s)/SEB(s)/Power Department(s)

**Sub: Quality Inspection of works by RQM under DDUGJY (new) projects – reg.**

Ref: REC CO, New Delhi letter no. REC/DDUGJY/MI/2017-18/2120 dated 18.07.2017

Sir/ Madam,

Kind reference is invited to the subject cited above. As you are kindly aware that concurrent monitoring of quality of works is to be carried out by a third party agency namely REC Quality Monitors (RQM) under DDUGJY (new) scheme as per guidelines approved by Ministry of Power. The guidelines approved by MoP indicating detailed scope of RQM has been circulated to all PIAs vide letter cited under reference above and also enclosed herewith for ready reference please.

In this connection, the scope of RQM is indicated below:

- 100% of the Un-electrified and 10% of Intensive Electrified villages where electrification works has been carried out excluding SAGY villages, (Note: Villages includes Habitations/Dhani/Majra/Tolas/Thandas etc.)
- 100% works carried out in Sansad Adarsh Gram Yojana (SAGY) ,
- 10% of Feeders created under Feeder Separation,
- 1% Consumer Meters & 10% of Industrial/Commercial Meters or 3-Phase Distribution Transformer Meters,
- 100% of new substations (66/11 or 33/11kV),
- 25% of augmented substations (66/11 or 33/11kV)

The inspections by RQM are to be carried out concurrently with the physical progress of the projects. It has been observed that in many projects, the RQM inspections are not commensurate with the physical progress of the project. Since, release of 3<sup>rd</sup> instalment claims under DDUGJY (new) scheme is linked with completion of quality inspection of works as per guidelines, it is requested to please ensure completion of inspections by RQM before lodging 3<sup>rd</sup> instalment claims.

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Regional	:	Hyderabad, Kolkata, Mumbai, Panchkula & Lucknow
and	:	Bangalore, Bhopal, Bhubaneswar, Chennai, Guwahati, Jaipur, Jammu, Patna, Ranchi, Shillong, Shimla
State	:	Thiruvananthapuram & Vadodara
Offices	:	Dehradun, Raipur
Training Centre	:	Central Institute for Rural Electrification (CIRE), Hyderabad

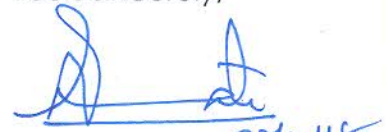
Further, pre-dispatch inspection of atleast one lot of each major materials viz. Poles, Conductors, Distribution Transformers, Power Transformers, Insulators, Energy Meters, VCBs and Control & Relay Panes is to be carried out by RQM in each project. In this regard, mechanism devised by REC for carrying out material inspections smoothly is as follows:

- 1) 100% material inspection requisitions for all the items covered under RQM scope are to be forwarded to REC. REC at its own discretion will send RQM agency for witnessing the inspection of materials **for one or more lots** at the premises of the manufacturer.
- 2) Materials inspection call requisitions are to be raised in prescribed format indicating district/project-wise quantities of materials to be inspected, giving atleast 2 working days' time for deploying RQM inspectors.
- 3) Inspection date & venue is to be finalized by PIA. PIA has to ensure that the inspection is carried out on the date finalized by PIA. Any request for change in quantity, date & venue by the executing agency shall not be allowed after sending the inspection calls to REC. If the material is not ready on the scheduled date of inspection, then the inspection call shall be treated as fake call & penalty of Rs. 50,000/- shall be levied on the contractor/vendor (in case of departmental execution) towards deployment of inspector by REC.
- 4) The inspection is to be performed on the scheduled date of inspection in the presence of atleast one inspector (PIA inspector or RQM inspector). If RQM inspector doesn't participate in the inspection on scheduled date & venue, then the PIA inspector shall perform the inspection. Similarly, if PIA inspector doesn't participate, then RQM inspector shall perform the inspection. If both the inspectors present, then joint inspection is to be performed. In any case, inspection should not be held for want of RQM or PIA inspector.

All the material inspection calls may please be forwarded through mail to [ddugjyqualitydesk@gmail.com](mailto:ddugjyqualitydesk@gmail.com) & [racc@recl.in](mailto:racc@recl.in).

In view of the above, we request you to kindly advise the concerned official to coordinate with our Regional/ State office for timely inspection of materials as well as works at site.

Yours sincerely,



(G S BHATI) 28/11/18

Executive Director (PMD-II)

Copy to: The Sr CPM/CPM, REC Regional/ State Office – to follow up.

## **Guidelines for Quality Assurance Mechanism under Deendayal Upadhyaya Gram Jyoti Yojana**

The Project Implementation Agency (PIA) shall be solely responsible & accountable for assuring quality in Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) works. Project Implementing Agency (PIA) shall formulate a detailed comprehensive Quality Assurance (QA) plan for the works to be carried out under DDUGJY scheme with an objective to create quality infrastructure works. The QA and Inspection Plan shall be integral part of the contract agreement with turnkey contractor or equipment supplier and erection agency as the case may be in case of turnkey/partial turnkey/ or departmental execution of works. PIA has to ensure that the quality of materials/equipment's supplied at site and execution of works carried out at field under DDUGJY scheme is in accordance to Manufacturing Quality Plan (MQP)/Guaranteed Technical Particulars (GTP) and Field Quality Plan (FQP)/Approved Drawings/Data Sheets respectively.

**Quality checks to be ensured by PIA/Turnkey Contractor:** PIA & Turnkey Contractor shall strictly ensure QA checks during the day to day course of project execution, which are as follows:

- a. 100% pre-dispatch inspections of all materials viz. as per MQP/ Approved Drawings/ Technical Specifications/Datasheet/GTP/applicable national & international standards.
- b. 100% villages with all infrastructures are to be verified for quality as per MQP/Datasheet/GTP/ Approved Drawings/Technical Specifications and FQP.
- c. 100% of all 66/11 or 33/11 kV sub stations (New & Augmented) for quality of material as per MQP/Approved Drawings/Technical Specifications/Datasheet/GTP and erection works in the field as per FQP/approved survey drawings/layout.
- d. 100% verification of BPL HHs connections released.
- e. 100% verifications feeders created under the scheme.
- f. 100% verification of materials utilised under the scheme.
- g. 100% verification of works done in Metering, SAGY & System Strengthening.

**Vendor approval:** All the materials procured for DDUGJY works shall be purchased from the authorised vendors approved by their Quality Assurance Department of PIA. Approved vendors list is to be uploaded periodically (monthly) on the PIA web portal.

New vendors/suppliers may be approved by PIAs, provided capability of manufacturer's is assessed suitably by visiting the factory premises and checking the testing facility available before accepting it as approved vendor. If required, State Electricity Board/Power Department/ Distribution Companies may adopt vendors already approved by CPSUs.

**Material Inspection:** All six materials of 33/11kV or 66/11kV substations and materials required for Village Electrification shall be inspected at manufacturer works/premises before dispatch at site. The materials to be used under the scheme shall be as per Technical Specification attached with Standard Bidding Document of DDUGJY scheme or as per latest relevant Indian Standards/approved Datasheet/drawings/GTP/MQP.

*Note: PIA to perform one stage inspection of Power/Distribution transformer for each manufacturer.*

**FQP for Civil works:** PIA shall prepare a separate FQP for civil works supported with drawings which shall be approved by their competent authority which shall be uploaded at web portal. The turnkey contractor shall adhere to this FQP while carrying out physical works.

**FQP for testing & commissioning:** PIA shall prepare a comprehensive FQP for testing & commissioning of 33/11kV or 66/11kV substation, Distribution transformer Substation etc. as well as infrastructure created during electrification of villages/habitations. The electrical system shall be energized only after performing all tests as described in the FQP. Proper records in this regard, including tests on earth resistance, insulation resistance of 11 kV line & Distribution Transformer etc. shall be maintained, jointly signed by PIA and turnkey contractor representatives.

**QA documentation:** All the quality assurance checks shall be conducted in the field as per approved Field Quality Plan(FQP) and shall be documented properly and signed by the quality engineer of the turnkey contractor & countersigned by PIA's representative and shall be kept for future reference. These documents shall be maintained by PIAs in proper order and shall be made available at site for verification by Quality Monitors during inspection.

#### **Quality Assurance Mechanism to be envisaged by REC/MoP for DDUGJY Projects**

DDUGJY Projects shall have a single tier Quality Assurance Mechanism (QAM). The single tier QAM shall exclude the in-house process quality checks followed by the Project Implementation Agency (PIA) during the physical execution of the project.

Rural Electrification Corporation (REC), the nodal agency for the DDUGJY scheme shall operate for Quality Assurance Mechanism. REC shall designate a senior officer (ZM/CPM of the state) as REC State Quality Assurance Coordinator (RSQAC) at its State level Zonal/Project office. REC corporate office shall designate a senior officer not below the level of AGM/GM as RQAC.

Under this mechanism, *RQM shall oversee the compliance of DDUGJY guidelines*, adherence to system procedures etc. shall be verified by an independent inspecting agency.

