

## Three Tier Quality Control Mechanism in DDUGJY Scheme

In order to ensure proper quality of materials supplied as also the quality of their installation in the field a Three Tier quality control mechanism has been devised for DDUGJY works under XIth Plan. A Quality Control Manual has also been developed for extensive use by all engineers engaged in the construction activities at different levels.

The basic frame work of three-tier quality control mechanism is summarized here under:

### **First Tier:**

Project implementing agency (PIA) is responsible for assuring first tier of quality- control structure. Besides, ensuring that the quality of materials procured and the workmanship of works conform to the prescribed standards during the construction stage, the PIA is also required to engage a Third Party Inspecting Agency (TPIA), who will verify the quality of DDUGJY works in 50% of the villages covered in the project in addition to conducting pre-dispatch quality checks of 10% of major items such as DTR, conductor, Energy Meter, Poles and insulators etc. This Tier is also synchronized with the phased release of funds under DDUGJY.

### **Second Tier:**

Rural Electrification Corporation (REC), the nodal agency of DDUGJY works is responsible for 2<sup>nd</sup> tier of quality control mechanism. REC has outsourced six independent agencies to verify the quality of DDUGJY works in 10% of the villages covered under the Project in addition to conducting pre-dispatch quality checks of six major items at the vendor's outlet. These independent agencies are designated as REC Quality Monitors (RQM).

### **Third Tier:**

Ministry of Power (MOP) is responsible for third tier of quality control mechanism. For this five independent evaluators, designated as National Quality Monitors (NQM) have been engaged by MOP. The scope of inspection of NQM covers 1% of villages covered in the project. They also report on the general functioning of the Quality Control Mechanism in the District. It will be the responsibility of the State to facilitate the inspection works by the NQM, who has been given free access to all administrative, technical and financial records.

#### INSPECTION SCOPE

Quality Control Mechanism	Tier-I	Tier-II	Tier-III
Responsible Agency	Third Party Inspecting Agency(TPIA)	REC Quality Monitor(RQM)	National Quality Monitor(NQM)
Village Inspection	50% villages	10% villages	1% villages
Material inspection	10% of material lot (five major items) DTR, conductor, Energy Meter, Poles, Insulators, cable	At least one inspection of 5 major items, DTR, conductor, Energy Meter, Poles, Insulators, cable	Review of test records Same as Tier -II
Sub-station inspection	100 % of new sub stations and 50% of augmented sub stations	25 %( At least one) new sub station and 5% (at least one) augmentation of sub station.	At least one new sub station and one augmentation of sub station.
BPL Connections	100% BPL Connections in 10% of the above villages inspected and Minimum 5 BPL connections in each of the remaining	100 % BPL on 25% of the villages inspected above and minimum 5 connections in the remaining 75% of the above (10%)	100% BPL service connection in 50% of the above village inspected and in remaining 50% of above villages, at least 5 connections.

### 3-Tier Quality Control Mechanism

- **Inspection Scope for XI Plan Projects:**

Particulars	Agency	Scope for inspection	
Tier-I	Implementing Agencies have engaged third party inspection agencies	<ul style="list-style-type: none"> <li>• 50% of villages covered</li> <li>• 100% BPL Connections in 10% of the villages inspected and Minimum 5 BPL connections in remaining inspected villages</li> <li>• 100% of new sub stations and 50% of augmented sub stations</li> </ul>	
Tier-II	REC has engaged independent inspection agencies	Old (Phase-I)	Revised (Phase-II)
		<ul style="list-style-type: none"> <li>• 10% of villages covered</li> <li>• 100% BPL Connections in 25% of the villages inspected and Minimum 5 BPL connections in remaining inspected villages</li> <li>• Inspection of 25% of new sub stations</li> </ul>	<ul style="list-style-type: none"> <li>• 20% of villages covered</li> <li>• 100% BPL Connections in all Inspected villages</li> <li>• Inspection of 100% of new sub stations and also augmented sub stations.</li> <li>• Verification of energisation status of electrified villages.</li> </ul>
Tier-III	MoP through REC has engaged independent inspection agencies	<ul style="list-style-type: none"> <li>• 1% of villages covered</li> <li>• 100% BPL Connections in 50% of the villages inspected and Minimum 5 BPL connections in remaining inspected villages</li> <li>• At least one new sub stations and one augmented sub stations</li> </ul>	

**INSPECTION SCOPE in XIIth Plan projects:-**

<b>Quality Control Mechanism</b>	<b>Tier-I</b>	<b>Tier-II</b>	<b>Tier-III</b>
Responsible Agency	Third Party Inspecting Agency(TPIA)	REC Quality Monitor(RQM)	National Quality Monitor(NQM)
Village Inspection	50% villages	20% villages	1% villages
Material inspection	10% of all important materials of REDB (14) & VEI (11) [A sample of material can be picked from site for testing]	At least one type of all important materials of REDB (14) & VEI (11) [A sample of material can be picked from site for testing]	Review of test records
Sub-station inspection	100% of all New & Augmented	100% of all New & Augmented	At least one new sub station and one augmentation of sub station.
BPL Connections	100% BPL Connections in all inspected villages	100% BPL Connections in all inspected villages	100% BPL Connections in all inspected villages