

## **SECTION-5**

# **TECHNICAL** **SPECIFICATION**

## **DETAIL ITEM WISE TECHNICAL SPECIFICATIONS**

**Item No.-1 Providing services of Mechanic/Electrician for maintenance, repairs & operation of Different electrical location & Radial gates of Karjan Dam under jurisdiction of Irrigation Project Sub Division No.27, Rajpipla for the year 2026.**

### **Scope of Work**

1. Deployment of skilled Mechanic/Electrician for operation, maintenance and repair work of electrical installations and radial gates at Karjan Dam.

2. Routine inspection and preventive maintenance of:

Radial Gate operating systems.

Electric motors, starters, control panels and switchgears.

Transformers, DG sets and associated electrical equipment.

Internal and external electrical wiring systems.

Lighting systems and street lights within project premises.

3. Attending breakdowns and carrying out emergency repairs of electrical equipment and gate operating mechanisms.

4. Lubrication, tightening, cleaning and adjustment of gate operating components and electrical systems.

5. Monitoring and operation of radial gates during monsoon, flood situations and as instructed by departmental officers.

6. Maintaining log books, operation records and maintenance registers.

7. Assisting departmental staff during inspection, testing and commissioning activities.

8. Ensuring uninterrupted operation of electrical installations and gate systems.

9. Carrying out minor fabrication, fitting and mechanical repair works related to gate operation.

10. Following all safety regulations and instructions issued by the department.

### **Technical Requirements**

Mechanic/Electrician shall possess adequate knowledge of operation and maintenance of electrical equipment and radial gate systems.

Personnel shall be capable of identifying and rectifying electrical and mechanical faults.

Work shall be executed as per departmental specifications and instructions of Engineer-in-Charge.

Necessary tools and safety equipment shall be arranged by the service provider unless otherwise specified.

### **Working Hours**

Normal working hours as directed by the department.

During monsoon, flood conditions, emergencies or special operations, staff shall remain available round the clock as required.

### **Responsibility of Service Provider**

Ensure regular attendance and deployment of qualified personnel.

Replace absent or unsuitable personnel immediately.

Comply with labour laws, safety regulations and statutory requirements.

Be responsible for any damage caused due to negligence of deployed staff.

### **During emergency:**

Staff shall remain available 24×7, Immediate response compulsory, No leave allowed without permission

### **Mode of Measurement & Payment**

The payment shall be made on Days basis as per specification and rate approved by the department.

### **Item No.-2 Providing services of Assistant Electrician/Helper for operation of Different location & Radial gates of Karjan Dam under jurisdiction of Irrigation Project Sub Division No.27,Rajpipla for the year 2026.**

#### **cope of Work**

- 1.The Assistant Electrician/Helper shall assist in the operation of radial gates and associated electrical equipment installed at Karjan Dam and its different locations.
- 2.Assist the Electrician/Mechanic during opening, closing, testing, and routine operation of radial gates as per instructions of departmental officers.
- 3.Help in monitoring electrical panels, control systems, motors, cables, switches, and other related equipment.
- 4.Assist in emergency operation of gates during flood situations, heavy rainfall, or any urgent requirement.

5. Carry out cleaning of electrical panels, gate operating platforms, control rooms, and surrounding work areas.
6. Assist in minor maintenance works, replacement of electrical accessories, tightening of connections, and handling tools and equipment.
7. Provide support for inspection, testing, and routine checking of electrical installations and gate operation systems.
8. Maintain attendance, logbooks, and records as directed by departmental officers.
9. Remain available for duty on shifts, Sundays, public holidays, and emergency situations whenever required.
10. Follow all safety rules, regulations, and instructions issued by the department.
11. Any other work related to operation and maintenance of radial gates and electrical installations assigned by the Engineer-in-Charge.

### **General Conditions**

The manpower supplied shall be physically fit and capable of performing field duties.

The agency shall ensure discipline and proper conduct of deployed staff.

Necessary safety equipment shall be provided to the staff by the agency.

The deployed staff shall work under the direct supervision and control of the departmental officers.

The period of service shall be for the year 2026 or as directed by the department.

### **Mode of Measurement & Payment**

The payment shall be made on Days basis as per specification and rate approved by the department.

### **Item No.-3 Providing services of unskilled labourers for operation of Different location & Radial gates of Karjan Dam under jurisdiction of Irrigation Project Sub Division No.27, Rajpipla for the year 2026.**

#### **Scope of Work:**

1. Providing unskilled labourers as per requirement for operation of radial gates and other gate locations of Karjan Dam.
2. Assisting in opening, closing and monitoring of radial gates as per instructions of departmental officers.
3. Performing routine watch and ward duties at gate locations.
4. Assisting technical staff during operation, inspection and emergency situations.
5. Cleaning and maintaining gate operating areas and surrounding premises.

- 6.Reporting any abnormal condition, damage or malfunction noticed during duty.
- 7.Working in shifts, including night duties, Sundays and public holidays as directed.
- 8.Ensuring safe operation practices and following departmental instructions at all times.
- 9.Labourers shall remain present at assigned locations during duty hours and maintain attendance records.
- 10.Any other work related to operation and maintenance of gate locations assigned by the Engineer-in-Charge.

**General Conditions:**

Labourers shall be physically fit and capable of performing assigned duties.

Necessary safety equipment shall be provided as per applicable rules.

The agency shall comply with all labour laws, EPF, ESI and other statutory provisions.

The contractor shall arrange substitute manpower whenever required to ensure uninterrupted services.

The period of work shall be for the year 2026 or as specified in the work order.

**Mode of Measurement & Payment**

The payment shall be made on Days basis as per specification and rate approved by the department.

**Sign Of Contractor**

**Deputy Executive Engineer  
Irrigation Project Division Sub Div.  
No.27  
Rajpipla**

**Executive Engineer  
Irrigation Project Division  
No.4  
Rajpipla**