

**Demands of
Drawing/Design cadre of
Indian Railways
in Electrical Branch
of Railway Electrification
project**



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Introduction: -

The drawing staff are all selected through Railway Recruitment Board (RRB) with minimum qualification of Diploma Engineers (which is three years course and appointed as Junior Engineer (Drawing) grade-II in scale **5000 – 8000** from 5th CPC. The Section Engineers (Drawing) in scale RS. **6500 – 10500** 20% is also selected through (RRB) with min. qualification of BE (Bachelor of Engineer)



Nature of work

- This work is involved with highly technical and 100% accuracy. They have to be thorough technical knowledge in electrical Engineering side with calculation in various fields in Indian Railways. i.e. Traction, Rolling stock, General Electrical, Train lighting, Air-conditioning of coaches and office rooms etc., in general. The nature of work involved for Electrical group 'C' Engineers in Railway Electrification project are detailed below:-



Works related to Railway Electrification

- 1. Preparation of cost-cum feasibility survey for electrification of new route sections
- 2. Preparation of detailed estimate upon sanction from Railway Board
- 3. Preparations / Checking of foot-by-foot survey and pegging plan.
- 4. Preparation of wiring plans, General supply Diagrams, Sectioning diagram duly studying the voltage drop calculations.
- 5. Site checking of OHE layout-plans for entire route section as a continuous process irrespective of the prevailing climate conditions.
- 6. Checking of OHE layout-plans, cross sectional drawings and structure erection drawings with necessary foundations stability calculations.
- 7. Preparation of quantity schedule for OHE/TSS works.
- 8. Checking of assessment quantity .
- 9. Preparation site plans quantity schedule for TSS.
- 10. Checking of Design drawings and quantity schedule for TSS work.
- 11. Checking of as erected drawings for OHE and TSS works.
- 12. Preparation of clearance study for over head structure.



Speciality

- To do the above work 100% concentration is highly essential. For collecting the required data for the above work this Engineers have to go on line to various places to asses the correct quantity. This work also involves more calculations with mental agony because of more brain work, so as to create new work for various departments in Railways.
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