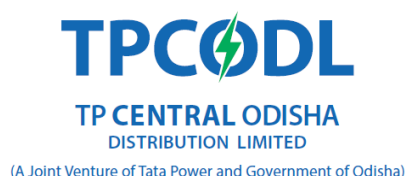


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TP CENTRAL ODISHA DISTRIBUTION LIMITED

Guidelines for Civil and Structural Works

For

**“Construction of Residential Training Center at
Bhubaneswar”**

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INTENT OF SPECIFICATION

The specific requirement covers the complete construction works (civil, structural, architectural, electrical, and mechanical, works) for proposed Residential Training Center at Bhubaneswar on Item Rate basis. The Building comprises of G+7 Residential complex which accommodates 2 no of staircase, 2 no of lift, ladies and gents washrooms, reception, laundry room and 36 no of single room, 24 nos of twin sharing rooms and 6 nos of VIP rooms along with Gymnasium, Indoor Sports area, VIP Lounge and 10 capacity staff rest room. Training complex of 1 hall of 120 seat flat floor and 2 classrooms of 60 seat in stepped arrangement, reception, co-curricular space and one 60 seat dining hall along with kitchen and other support infrastructure like sanitation, drinking water, lighting, pathway, Boundary wall, Drain etc. shall be included in master layout. The Training Center shall have open parking spaces for the vehicles of employees and visitors.

PROJECT INFORMATION

1.0	Owner	TP Central Odisha Distribution Limited
2.0	Engineering Office	TP Central Odisha Distribution Limited
3.0	Location	Residential Training Centre, Periphery PSS Near DAV Public School, Phase-VII, Sailashree Vihar Chandrashekharapur, Bhubaneswar, Odisha-751021.
4.0	Nearest Railway Station	Bhubaneswar Railway Station is about 13 km away from the location

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SCOPE OF WORK

The Scope of Work covers complete supply, fabrication, erection, installation, testing and commissioning of all civil and structural and associated works for construction of Residential Training Centre at Bhubaneswar, Odisha State.

The scope further includes

- Setting out as necessary for the Works and clean-up of working areas after completion of Works.
- For the purpose of Construction Water and Power supply to be arranged by the Contractor at his own cost for the entire duration of the project.
- The design drawings shall be made available by the Owner for all the works except for few items as prescribed in the detailed Schedule of Quantities. Contractor shall be responsible for qualitative execution (according to NBC) as per standard code of civil engineering practice.
- All design drawings issued are property of the Owner and the same shall be returned to the Owner after completion of the job. Contractor shall prepare bar bending schedules, steel fabrication drawings, shop drawings, etc and submit the same for approval of the Owner before executing the respective work item.
- Contractor shall also submit as-built drawings after completion of the job with the inventory list (Both in Hardcopy & editable digital format)

SPECIAL NOTES TO BIDDERS

The above is only a brief indicative scope of work which helps the bidder to understand, nature of works involved in this project. The bidder is advised to thoroughly refer the Bill of Quantities (including descriptive technical specifications) and tender purpose drawings before submitting bid documents to the OWNER. The tender purpose drawings are indicative and may undergo changes during detail engineering phase of the project. The item quantities indicated are tentative and may vary individually to any extent during detail engineering stage. Bidder to note that the quoted price for each item would remain unchanged for the entire quantity & duration of the contract and for a total contractual amount variation limiting to +/- 25%. In addition to this, BIDDER shall assume whatever is necessary for successful completion and commissioning of the project. Such assumptions must be clearly mentioned in the bid.

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TECHNICAL REQUIREMENT

Materials of following specification are to be used in work. The Bidder are expected to possess and be well conversant with the following IS standard and code of practice.

1.	Cement	Will be as per I.S. 269 for OPC 33 grade/8112 for 43 Grade & 12269 for OPC 53 Grade (However the grade of cement to be selected by the Engineer-in-Charge of work and complex cube test before commencement of work in each batch).
2.	Steel	I.S. 432 (Plain) and 1786 for HYSD Bars
3.	Vibrator	I.S. 7246- Table Vibrator & IS 3558, IS 2505 for immersion vibrators.
4.	Aggregate	I.S. 383, I.S. 515
5.	Water for mixing and curing	Shall be clean, free from injurious amount of oil, salt, acid, vegetable materials and other substances and harmful to concrete in conformity to I.S. 456.
6.	Sand / Fine Aggregate	I.S. 2116, 383
7.	Binding wire	I.S. 280 (galvanized minimum 1 mm)
8.	Rain water pipe	I.S. 2527
9.	Construction joints	I.S. 3414
10.	Steel Window Frame	I.S. 1038
11.	Steel Door Frame	I.S. 4351
12.	Fitting & Fixtures for journey works	Conforming to I.S. 7452/82 strictly conform to I.S. specification and as per direction of Engineer-in-Charge.

Note: For road work (Approach Road) specification as per road and bridges (latest edition) published by I.R.C & M.O.R.T.H. shall be followed. In case of any doubt and absence of provision, regarding specification I.S. shall be referred (Indian standard).

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ITEM OF WORK

1. Concrete shall be with conformity to I.S.456.
2. Foundation shall be with conformity to I.S.1080.
3. Stone masonry (R.R.) shall be with conformity to I.S.1597 (Part-I)
4. C.R. Masonry shall be with conformity to I.S.1597.
5. Brick masonry shall be with conformity to I.S.2212.
6. Cement plastering shall be with conformity to IS 1661.
7. Mortar shall be with conformity to I.S.2250
8. White and colour washing shall be with conformity to I.S.6278.
9. CC in foundation shall be with conformity to I.S.2571.
10. Anti-Termite Treatment shall be with conformity to I.S.6313. (Part – I & Part – II)
11. Painting to all surfaces shall be with conformity to I.S.2395 (Part – I & Part – II)
12. Damp proofing shall be with conformity to I.S.3067
13. Tar felt treatment shall be with conformity to I.S.1346
14. Steel painting shall be with conformity to I.S.1477 (Part – I & Part – II).

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GENERAL CONDITIONS

1. Drawings & Specifications

The Contractor, after the award of the contract and signing the agreement shall be provided drawings, specifications, descriptive schedules and other details necessary for execution of the work. All further drawings and details as may be prepared by the department from time to time for reasonable development of the work described in the contract documents and reasonably necessary to explain and amplify the contract drawings and to enable the contractor to execute and complete the work shall also be supplied to contractor.

Any copies of such drawings, required by the contractor shall be paid for by him.

The contractor shall keep one copy of all the drawings specifications, price schedule of items and quantities at work site and the Engineer-in-charge or his authorized representative shall at all reasonable times have access to the same.

2. Contractor's Responsibility.

- a) The contractor shall provide at his cost everything necessary for the proper execution of the works according to the intend and meaning of the drawings, schedule of items and quantities and specifications taken together, if the same is not particularly shown or described therein, provided that the same can reasonably be inferred there from, the Contractor finds any discrepancy in the drawings or between the drawing and schedule of quantities and specifications, he shall immediately in writing refer the same to the Engineer-in-charge whose decision shall be final & binding.
- b) Any work done at any time or even before receipt of such details shall be removed/replaced by the contractor without any expense to the department If the work is not in order and if so directed by the Engineer-in-charge error inconsistencies in drawings and local conditions affecting the works shall be brought to the notice of the Engineer-in-charge immediately for his decision.
All drawings, bill of quantities and specifications and copies therefore furnished by the department, are owner property. They shall not be used or referred for any other work and shall be returned to the Department on request on completion and before issue of final certificate or termination of the contract.
- c) All materials and workmanship shall be of the respect kinds described in the specification. B.O.Q, contract and in accordance with the instruction of the Engineer-in-charge. The contractor must satisfy himself about the same while furnishing samples for approval of the Engineer-in-charge before incorporation in the works.
- d) The Engineer-in-charge may from time to time cause at his discretion such tests on samples of materials or workmanship of all/any materials and work, as he may consider necessary at places of manufacture, fabrication, on the site or at such other places. The expenditure incurred for all such tests shall be borne by the contractor.
- e) All approved samples are to be preserved by the contractor in a regular manner in the site office for inspection and verification of the Engineer-in-charge or his representative from time to time.
- f) All material sample to be approved by Engineer-In-Charge before procurement/installation.
- g) Before procurement of material to the site casted/fabricated in workshop/lab/factory, dispatch clearance certificate to be taken from Engineer in Charge.

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h) Alteration / Addition & Omissions

The Engineer-in-charge shall make any variation of the form, quality or quantity of the works or any part thereof that may be in his opinion be necessary and for that purpose or if for any, other reason it shall, in his opinion be desirable, he shall have power to order the Contractor to do so and the Contractor shall do any or all of the followings:.

- Increase or decrease the quantity of any work included in the contract.
- Omit any such work.
- Change the levels, lines, position and dimensions of any part of the works
- Execute additional works of any kind necessary for the completion of the work.

No such variation shall in any way radiate or invalidate the contract, but the value of all such variations shall be taken into account and shall be added to or deducted from the contract sum accordingly, but no such variation shall be made by the contractor without prior written instruction from the Engineer-in-charge.

The Schedule of quantities/rates shall be deemed to have been prepared and Included in accordance with the method of measurement of work set out and as per the relevant specifications or in its absence relevant I.S. code of practice.

Any error in the specification or in quantity or omission of any item from the schedule of quantities/ rates shall not vitiate the contract, but be adjusted by adding to or deduction from the contract sum provided that no rectification of errors, if any, shall be allowed in the contract schedule of rates.

3. Valuation of variations

- a) All extra or additional work done or work omitted shall be valued at the rates and price set out in the prices schedule of quantities, and/or derived there-from, if in-arriving at the contract sum, the Contractor have added to or deducted from the total of the items in the tender any sum either as a percentage or proportion, then the same percentage of proportion shall apply to all items or works in the prices schedule as also for valuation of variation.
- b) If the contract does not contain any rate or price applicable to the extra or additional work, or the rate or price in the priced schedule of quantities has become inapplicable in the opinion of the Engineer-in-charge by virtues of such addition or omission, then suitable rates or price shall be agreed such rates shall be derived by analysis based on standard schedule of rates of Central P.W.D/ State P.W.D. / P.H.D or in case such is not available therein, from any approved schedule with the various elements valued at local market price.

4. The Offers are also to include

- a) To supply all materials, labour, supervision, services, supports, cup lock/scaffoldings, approach road, construction equipment, tools and plants etc., as required for proper execution of all the items of the work as per drawing and specification.
- b) Safety as per Tata Power Standards. Scaffolding design to be got approved for slab.

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- c) To provide all incidental items not shown or specified in particular, but reasonable or necessary for successful completion of the work in accordance with the drawings, specifications and schedule of quantities.
- d) Cleaning, Uprooting the stumps, vegetation and old masonry etc., met in the trenches and excavations.
- e) Providing shoring and shuttering to avoid sliding of the soils and removal of the same or completion.
- f) De-watering as required and directed.
- g) Excavation at all depths (Unless otherwise mentioned in schedule), stacking usable and disposal of surface earth and materials from site as directed including submitting receipt of disposed material at approved municipal dumping ground.
- h) Curing of all concrete and cement works as per specification and direction of EIC
- i) Centering, shuttering as required for all concrete work.
- j) Bending, binding, tying the grill & placing in position, including supply of all materials & labour etc.
- k) To provide water and power required for construction testing and commissioning
- l) Testing of materials and works as per specification and direction

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A	Concrete and Allied				
1	Cement		ACC, Ambuja, Ultra Tech, Birla, Lafarge, Dalmia, Binani, JK Super, JSW		
2	Reinforceme nt Steel		Tata Tiscon, SAIL, Jindal Steel, Essar Steel, Mittal Steel,Vizag, Shyam		
3	Structural Steel		Tata Tiscon, SAIL, Jindal Steel, Essar Steel, Mittal Steel, Vizag, RINL, IISCO, Kamdhenu		
4	RMC		UltraTech, ACC, Lafarge, L&T, Ambuja, Godrej, Nuvoco		
5	Water Bar		As per approval of EIC		
6	HDPE Pipe		Prince, Supreme, Finolex, HASTI (Reliance)		
7	CPVC Pipes		Prince, Supreme, Finolex, HASTI (Reliance)		
8	GI Pipes		Jinda, SAIL, TATA		
9	Construction chemicals		Fosroc, BASF, SIKA, Pidilite, CICO, Sunanda or equivalent		
10	Bitumen		HPCL, IOCL, BPCL, ESSAR		
11	GI/ Galvalume Sheets		Tata, Jindal, Bhusan, JSW		
12	Welding rods		ESSAB, Advani, Ador		
13	Anchor/ Fasteners		Hilti, Bosh, Fischer		