

## SPECIAL CONDITIONS - TECHNICAL

**NAME OF WORK:** SCR Construction Organisation - Secunderabad Division: Construction of Rail Over Rail (ROR) at Dornakal station: Construction of Viaduct bridge at Ch.7185 m of 25 x 30.50m Composite Girder and Rail Over Rail Bridge at Ch.7909m of 3 x 61.00 m Open Web Girder, Execution of Earth work in embankment and blanketing on approaches, Laying & Linking of BG Track on ROR portion and execution of miscellaneous Civil works in connection with Rail Over Rail at Dornakal Junction connecting Dornakal-Bhadrachalam Road Branch Line

### PARTICULARS OF WORK:

1. SITE: The works included in this tender are to be carried out in connection with Proposed Construction of Rail Over Rail (ROR) at Dornakal Junction connecting Vijayawada - Kazipet line & Dornakal – Bhadrachalam Road Branch line (10.496 Km) - (i) Construction of viaduct bridge at Ch.7185 m of 25 x 30.50 m Composite Girder (ii) Construction of Rail Over Rail Bridge at Ch.7909 m of 3 x 61.00 m Open Web Girder and other connected miscellaneous works

#### 1.0 GENERAL FEATURES:

The following works have to be executed under this tender.

1. Viaduct of span 25 x 30.50 m with Composite Girder
  2. Rail Over Rail Bridge of span 3 x 61.00 m Open Web Girder
  3. Approach Earth work in embankment
  4. Provision of blanketing to RDSO standards on approaches
  5. Other connected miscellaneous works
- 2.0 The quoted rates for works shall include clearing of site from dumped debris/earth, vegetation, bushes & thorny trees etc., leveling of ground, removing and stacking of free rails, sleepers of any type without any hindrance to the work site as directed by the engineer- in-charge. The tenderer has to provide temporary lighting, illumination, ventilation, communication etc. that may be required during the course of work at contractor's own cost. The contractor shall note that the work is to be carried out at takeoff point from the existing running line where Rail traffic is very heavy and in close proximity to the work spot and as such he has to take adequate precautions and safety measures by posting day night watchmen for safety of Rail/Road traffic and workmen. He should also take adequate precautions for the safety of workmen as they have to work in close proximity to running Railway lines as well as Road Traffic and as such ensure all the safety measures to be taken for the safety of Rail traffic & Road Traffic and workmen. All expenditure for ensuring the above shall be borne by the contractor and his rates shall be inclusive of all these elements.
- 3.0 Any other particulars / specifications required in connection with the above work may be obtained/ perused in the office of Chief Administrative Officer (Construction), S.C.Railway, Secunderabad or Deputy Chief Engineer (Construction-III/Secunderabad), S.C.Railway, Secunderabad.
- #### 4.0 SPECIFICATIONS:
- 4.1 The execution of all works under this Tender/Contract shall conform to the specifications and codes of practice mentioned below and as mentioned in other part of this document as amended from time to time.

- i) Indian Railways Unified Standard Specification (Formation Works, Bridge Works and P.Way Works) – 2019 and DSR (Delhi Schedule of Rates) - 2018 shall be read along with CPWD specifications 2019 Vol.-I & II with up to date Correction Slips.
- ii) Indian Railways Standard Concrete Bridge Code (Revised) 1997 read in conjunction with Indian Standard Specifications mentioned therein.
- iii) Notes shall be read in South Central Railway Unified Standard Schedule of Rates, 2019 and DSR (Delhi Schedule of Rates) – 2018.
- iv) IS Code No. IS/2062-1999 Code for supply of steel for fabrication purposes.
- v) I.S.456/2000 Code of practice for plain and reinforced concrete.
- vi) Indian Railway Permanent-Way, Bridges and Works Manual.
- vii) Indian Railway Standard Schedule of dimensions.
- viii) The works shall be carried out to the relevant I.S. Codes of practice and other specifications mentioned in plans.

Note:-

- 1) Latest edition including correction slips up to date of submission of price bid /revised bids, shall govern.
  - 2) The list given above is by no means exhaustive. All I.S. and I.R.S. codes pertaining to Work shall be applicable.
  - 3) Copies of plans and additional information required may be had by tenderers from office of the Chief Administrative officer, Construction, S.C. Railway, Secunderabad or office of Deputy Chief Engineer/Construction-III/ S.C.Railway /Secunderabad on any working day during office hours.
- 4.2 The Railway reserves the right to reject or alter any part of the work executed by the contractor which in the judgment of Railway does not comply with the requirements of the above specifications. The decision of the Railway shall be final and conclusive for all purpose.

#### 5.0 TIME OF COMPLETION:

Time is the essence of the contract. All works included in the contract shall be completed within the period of **24 (TWENTY FOUR)** months from the date of issue of acceptance letter, including intervening monsoon period. The tenderer/ Contractor would be expected to adhere to the progress of work as per accepted mile stone chart below. In case he/they fail in achieving the first 2 miles stones, the contract would be liable for termination under Clause-62 of I.R.S. GCC.

Mile stone program of all works:

Sl. No.	Mile stone No.	Name of event (mile stone)	Schedule (in days)
1	I	Preliminary works, like erection of site offices, collection of material, mobilization of material, mobilization of machinery, deployment of man power etc.,	D1+15
2	II	Submission and obtaining approval of Designs and Drawings for sub-structure and super structure	D1+60
3	III	Making arrangements for laying of foundations in water bodies etc.,	D1+120
4	IV	Foundation and footing Concrete for viaduct bridge, Foundations of Rail-over-Rail bridge etc., up to plinth level.	D1+210
5	V	Foundation and footing Concrete for viaduct bridge, Foundations of Rail-over-Rail bridge etc., above plinth level etc.,	D1+270
6	VI	Fabrication of Open Web Girders, Composite girders etc.,	D1+365
7	VII	Laying of service roads, Assembling of girders, laying of Composite girder concrete	D1+420
8	VIII	Erection of girders on piers/abutments	D1+540
9	IX	Formation of Approach earthwork and blanketing	D1+610
10	X	Unloading of Rail panels, Channel sleepers etc.,	D1+640
11	XI	Lifting and packing of track, finishing the track to prescribed track tolerances, other connected track linking works	D1+700
12	XII	Misc. finishing works viz., laying of track, Curve/SEJ/P&C Boards etc.,	D1+730

NOTE: The Contractor has to start the work at all locations simultaneously; the above milestone chart is for execution of work at all locations simultaneously.

NOTE:1)“D1 stands for the date on which Railway has given the site/drawings as relevant to the contractor.

2) The above schedule should be for completion of each item in totality. Hence the tenderer should plan for execution simultaneously for some of the items given above so as to give proportionate progress to complete the entire work within the schedule. As such the tenderer is required to give milestone chart within 15 days from the date of issue of acceptance letter.

6.1 Extension of time of completion will be governed by Clause-17 of IRS GCC. However, while granting the extension of time under Clause-17 (B) of IRS GCC, a token penalty as deemed fit based on the circumstances of the case can be imposed on the Contractor without prejudice to other rights of Railway Administration as provided under IRS GCC.

7.0 MAINTENANCE:

7.1 All works should be maintained by the contractor for a period of 48 (Forty Eight) months from the certified date of completion of the whole work as covered by the contract.

7.2 During the maintenance period, the Contractor shall bear the responsibility and be liable for maintenance as envisaged in the clause No.47 of IRS GCC.