

SECTION I
Chapter 2
SCHEDULE OF REQUIREMENT (SOR)

Tender No: RailTel/Tender/OT/SR/HQ/2018-19/47

Name of the work: - Diversion of OFC in Warangal- Nekonda and Kondapalli-Cheruvumadhavaram sections due to doubling works by S.C. Railway as per specification

S No	Description (SAC code for all line items is 995423)	Unit	Qty	Base Rate in Rs.	GST@ 12%	*Rate inclusive of GST@12%	Total Amount inclusive of GST@12%
A	B	C	D	E			F (D*E)
Phase-I (TEMPORARY DIVERSION)							
1	Trenching to a depth of 1.2 meter and 300 mm wide and backfilling after laying OFC as per specification	Mtr	6700	62	7.44	69.44	465248.00
2	Cutting hard rock for 0.3 mtr depth of trench	Mtr	1000	189	22.68	211.68	211680.00
3	Laying of OFC/QUAD cable in trench and through HDPE/GI/RCC pipes where ever necessary.	Mtr	9000	6	0.72	6.72	60480.00
4	Laying of HDPE duct in trenches. Supply and pulling of nylon rope through it.	Mtr	8000	6	0.72	6.72	53760.00
5	Supply of optical Fiber splicing (Joint) Enclosure (24F) for loose tube complete with all accessories ect	Mtr	8	1556	186.72	1742.72	13941.76
6	Rectification & re-splicing of existing mid section OFC joints.This includes supply and provision of joint repair kit & sleeves	Mtr	8	5545	665.40	6210.40	49683.20
7	Splicing/Termination of 24F fiber OFC	Mtr	4	4279	513.46	4792.27	19169.08
8	Trenching to a depth of 1mtr below rail/Road/Platform level , placing of G.I.Pipe(as per IS 1239 pt.I & pt.ii), 50 mm dia.(inside) in the trench made, backfilling and ramming	Mtr	200	657	78.84	735.84	147168.00
9	Horizontal Drilling at a approximately depth of 1.65/1.2 m below the formation level of the earth including insertion of DWC pipes along with couplings etc.	Mtr	100	747	89.65	836.73	83673.00
10	Supply of DWC pipe 78/63 mm OD/ID as per IS 14930 Part II in 30 mtrs lengthwith with 2 snap fit couplers for jointing Each 30 mt coil length.	Mtr	100	77	9.24	86.26	8626.00
Phase-II (PERMANENT DIVERSION)							
1	Supply & Installation of jointing pit as per drawing with cover and required trenching to ease out cable /duct.	No	40	2699	323.88	3022.88	120915.20
2	Supply & fixing of cable route markers as per drawing.	No	1000	207	24.84	231.84	231840.00
3	Concreting For protection of OFC cable	Cub. Mtr	7	2817	338.04	3155.04	22085.28

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4	Trenching to a depth of 1.2 meter and 300 mm wide and backfilling after laying OFC as per specification	Mtr	36000	62	7.44	69.44	2499840.00
5	Cutting hard rock for 0.3 mtr depth of trench	Mtr	6000	189	22.68	211.68	1270080.00
6	Supply & laying of 50 mm dia GI Pipe IS1239 medium grade with holes drilled as an anti theft measure coupling etc. on bridges/trenches/other surfaces with CC at every 1m as per drawing. Concreting rates shall be separate as per item 3A.	Mtr	479	331	39.72	370.72	177574.88
7	Providing dry sand in FRP/RCC joint chambers up to 400mm height	No	40	513	61.56	574.56	22982.40
8	Laying of OFC/QUAD cable in trench and through HDPE/GI/RCC pipes where ever necessary.	Mtr	45000	6	0.72	6.72	302400.00
9	Laying of HDPE duct in trenches. Supply and pulling of nylon rope through it.	Mtrs	44000	6	0.72	6.72	295680.00
10	Supply of optical Fiber splicing (Joint) Enclosure (24F) for loose tube complete with all accessories ect	No	16	1556	186.72	1742.72	27883.52
11	Rectification & re-splicing of existing mid section OFC joints.This includes supply and provision of joint repair kit & sleeves	No	16	5545	665.40	6210.40	99366.40
12	Splicing/Termination of 24F fiber OFC	No.	8	4279	513.46	4792.27	38338.16
13	Trenching to a depth of 1mtr below rail/Road/Platform level , placing of G.I.Pipe(as per IS 1239 pt.I & pt.ii), 50 mm dia.(inside) in the trench made, backfilling and ramming	Mtr	1500	657	78.84	735.84	1103760.00
14	Horizontal Drilling at a approximately depth of 1.65/1.2 m below the formation level of the earth including insertion of DWC pipes along with couplings etc.	Mtr	500	747	89.65	836.73	418365.00
15	Supply of DWC pipe 78/63 mm OD/ID as per IS 14930 Part II in 30 mtrs lengthwith with 2 snap fit couplers for jointing Each 30 mt coil length.	Mtr	700	77	9.24	86.26	60382.00
16	GPS Route diagram	Mtr	44000	8	0.96	8.96	394240.00
Total Amount inclusive of GST@12% (rounded off)							81,99,162
Contractor %age on <u>Total amount of SOR</u> (at Par, Below, Above) in Figures & Words							
Total Value after Contractor %age in Figures & Words							

***Rounded off to 2-decimals**

The Percentage Quoted shall be applied uniformly on all the items of SOR

Note:

1. The tenderer has to carryout detailed survey of the section to familiarize with the condition of the soil and requirement of protective arrangement etc. The tenderer has to quote for all items of schedule and partial quotes are not acceptable.

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2. The work has to be completed in two phases. Phase-I is temporary diversion of OFC as per site requirement and phase-II is making the permanent diversion as per site requirement. HDPE Duct, 24F OFC & FDMS for termination required for the work shall be supplied by RailTel at designated stations of the section.
3. Replacement of Defective OFC: No defects like high loss events and fiber breaks are permitted and the contractor shall at his own cost replace the entire drum length of cable of RAILTEL's specification and not less than the length of the drum being laid on joint. The contractor also at his own cost blows the cable again including splicing/Termination of the cable. No joints with pieces of OFC are permitted. In case of any deviation, specific approval from Competent Authority of RailTel should be obtained
4. If the new buildings are not ready for termination of cable, OF cable shall be jointed with the old OF cable in the existing location so that link should be through.
5. If there is any discrepancy in the Quoted rates both in figures and words, the rate Quoted in words will be taken as final.
6. Break-up of taxes to be specified in a separate sheet showing Basic Price, GST@ and others if any etc.
7. **Video Recording:** Video Recording of Trench: Video recording of trench to indicate the depth (1.2) of the trench to be recorded and soft copy in CD/DVD format to be submitted to RailTel for approval by the concerned Manager. Only after obtaining approval of concerned Manager RailTel, HDPE duct to be laid and then the trench can be closed. a. Video recording should be taken in such a way that it should be possible to deduce the depth of trench from the video itself. For e.g. A long stick with a clear legible mark at 1.2m should be made and a person should walk with the stick in the trench and the recording should be done as the person walks along the trench. However, the physical inspection of the trench by RailTel engineer at site will be done as per RailTel's discretion

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