

Tender No: RailTel/Tender/OT/ER/HQ/2018-19/1056

Dt. 05.07.2018

TENDER DOCUMENT

FOR

“Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi-Govindpur section in Ranchi Division of S.E. Railway for LHS work (for 23 locations).”



RAILTEL CORPORATION OF INDIA LIMITED

(A Government of India Enterprise)

EASTERN REGION

**3rd Floor, Chatterjee International Centre, 33A Jawaharlal Nehru
Road,**

Kolkata – 700 071.

Phone (033) 44041499 FAX : (033) 44041490

**Cost of Tender Document Rs. 3,540/- only
(Including GST @18%)**

(By Post: Rs. 4,040/-)

OPEN TENDER NOTICE**No. RailTel/Tender/OT/ER/HQ/2018-19/1056, Dt. 05.07.2018****1.1 Sealed Tenders are invited for the following work:**

“Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi Govindpur section in Ranchi Division of S.E. Railway for LHS work by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region” for 23 locations.:

a)	Estimated cost of the work	: Rs. 24,40,844/- (Incl. GST)
b)	Sale of Tender Document on	: 10.07.2018
c)	Closing of sale of tender document	: 08.08.2018 up to 17:00 hrs.
d)	Last Date & Time of submission of offer	: 09.08.2018 up to 15:00 hrs.
e)	Date & Time of opening	: 09.08.2018 at 15:30 hrs.
f)	Validity of offers	: 45 days from the date of opening
g)	Completion period	: 45 days.
h)	Earnest Money Deposit	: Rs. 48,820/-
i)	Cost of Tender document	: Rs. 3,540/- (including GST)
j)	Cost of Tender document if required by post	: Rs. 4,040/- (Including GST)
k)	Website from where tender document can be down loaded & every modification are also to be viewed.	: www.railtelindia.com
l)	If the tender document is downloaded from website then cost of tender document as stated above have to be submitted along with the offer in the form of Demand Draft in favour of RailTel Corporation of India Ltd. payable at Kolkata from any nationalized / scheduled bank of India.	

Small Scale Units registered with NSIC under single point registration scheme shall be exempted from the cost of tender documents. However, postal charges of Rs. 500/- would have to be paid by them, in case they need tender document by post.

The offers shall be opened on above said date & time in the presence of those bidders who choose to be present. If the above said date happens to be a holiday the same shall be opened on the next working day.

- 1.2 Tenders are to be submitted in the prescribed form also obtainable from the office of the Executive Director, Eastern Region, RailTel Corporation of India Ltd., Eastern Region, 3rd Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata – 700071 on production of cost of tender document indicated in the tender notice or tender document down loaded from RailTel Website.

- 1.3 Tender forms are not transferable.
- 1.4 Tenders in sealed cover, super-scribing the Tender Notice No & dt. Name of work for which tender submitted with the address of the tenderer addressed to Executive Director, Eastern Region, RailTel Corporation of India Ltd., Eastern Region, 3rd Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata – 700071 can be dropped in the tender box kept in the above mentioned office and also be sent by post/courier to reach by scheduled time of closing of tender. RailTel will not be responsible for Postal/courier delay and transit loss. The Tender Box will remain open from 10:00 hrs to 15:00 Hrs up to the date of tender opening.
- 2.1 The following further documents should be submitted along with tender:
- List of personnel in the organization available on Hand and proposed to be engaged for this subject work. These two list should be given separately and signed by the tenderer.
 - List of Plant & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work and each page of this list shall be signed by the tenderer.
 - List of works completed in the last three financial years including this current financial year giving description of work ,organization for whom executed, approximate value of contract at the time of award ,date of award and date of scheduled completion of work, date of actual start & actual completion of work and final value of contract should also be given.
- 2.2 Any change or modification in the constitution of tendering firms for whatever purpose or intimation of any dispute by any of the partners in the firm, making the tendering firm ineligible, during consideration of the tender after opening of tender, shall be deemed to be backing out of the offer by the tenderer.
3. The EMD should be paid in form of A/C payee DD issued by Nationalised banks/or scheduled bank in favour of RailTel Corporation of India Ltd. payable at Kolkata.
4. Tender offers not accompanying with the requisite Earnest Money Deposit as applicable shall be summarily rejected.
- Small Scale Units registered with NSIC under single point registration scheme shall be exempted from submitting the EMD amount on providing the NSIC registration certificate.**
5. The tenders will be opened in the presence of those Tenderers who can make it convenient to be present (only one representative of the tenderer is allowed) with proper authentication letter in the Tender Hall. In case, the date of Opening of the tender happens to be holiday; the same will be opened at the same time on the next working day.

General Manager/Operation
RailTel Corporation of India Ltd.
Eastern Region/ Kolkata

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SECTION-I

CHAPTER-1

OFFER LETTER

To

Executive Director, Eastern Region,

RailTel Corporation of India Limited,

Chatterjee International Centre,

33A, Jawaharlal Nehru Road,

Kolkata – 700071.

I/We _____ have read the various conditions detailed in tender documents attached here to and hereby agree to ABIDE BY THE SAID CONDITIONS. I/We also agree to keep this tender open for acceptance for a period of 45 days from the date fixed for opening the same and in default thereof, I/We will be liable for forfeiture of my/our Earnest Money. I/We offer to do the work of **(1)** “Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi Govindpur section in Ranchi Division of S.E. Railway for LHS work by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region” at the rates quoted in the attached schedules and hereby bind myself/ourselves to complete the work within _____ from the date of issue of Letter of Acceptance of the tender. I/We also hereby agree to abide by the various Conditions of Contract and to carry out the work according to the Specifications for materials and works laid down by the RailTel for the present contract.

2. A sum of Rs. _____ (Rupees _____ only) as a Account Payee Demand Draft No. _____ dated _____ issued by _____ is herewith forwarded as “Earnest Money”.

The full value of Earnest Money shall stand forfeited without prejudice to any other rights or remedies if, I/We do not execute the contract agreement within 15 days after receipt of notice issued by the RailTel that such documents are ready or, I/We do not commence the work within 15 days after receipt of orders to that effect.

Until a formal agreement is prepared and executed the acceptance of this tender (in LOA) shall constitute a binding contract between both the parties subject to modifications etc., as may be mutually agreed to between us and indicated in the “Letter of Acceptance” of my/our offer for this work.

SIGNATURE OF CONTRACTOR (S)

Date

SIGNATURE OF WITNESS CONTRACTOR (S) ADDRESS

- 1.
- 2.

ACCEPTENCE OF TENDERS:

I accept the tender as above and agree to pay the rate as entered in Schedule of Requirements.

WITNESS For and on behalf of

For and on behalf of

RailTel Corporation of India Limited,
Eastern Regional Office, Kolkata – 700 071.

Date



SECTION-I

CHAPTER-1

Preamble

1. Name of work:

“Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi Govindpur section in Ranchi Division of S.E. Railway for LHS work ” by Trenching, Laying of HDPE Duct and OFC Cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region” for 23 locations.

2 Scope of work :

The scope of the work shall constitute the following responsibilities of the tenderer:

2.1 Supply:

Supply of items conforming to technical specifications & to industry standards as per supply schedule and the Technical Specifications.

2.2 Services:

Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi - Govindpur section in Ranchi Division of S.E. Railway for LHS work ” by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region”for 23 locations.

3. Objective:

The objective of the project is to “Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi Govindpur section in Ranchi Division of S.E. Railway for LHS work ” by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region” for 23 locations

4. Tender Bid

Only original tender bid shall be submitted in a sealed envelop at 3rd. floor, CIC building , RailTel Corporation of India limited, Eastern Region, 33A Jawaharlal Nehru Road, Kolkata – 700071 within the date , time indicated in the tender notice, Bid Data Sheet (BDS) or any subsequent amendment/ corrigendum thereof.

5. Qualifying Criteria

Details shown in Bid data sheet (BDS), section II, Chapter-2

6. Last date of Submission

The tender shall be received at the address and not later than the date and time indicated in the Tender Notice and also in the Bid Data Sheet (BDS) Section-II, Chapter-2 of this Tender Document. In case the date happens to be a holiday, these shall be received on next working day.

7. Date of Opening of Tender

The tender shall be opened at the address and not later than the date and time indicated in the Tender Notice and also in the Bid Data Sheet (BDS) Section-II, Chapter-2 of this Tender Document. In case the date happens to be a holiday, these shall be received on next working day and shall be opened on next working day.

8. Completion Period of Work:

The Completion Period shall be as has been indicated in the Tender Notice and also BDS of this Tender Document.

9. Address to which correspondence and documents relating to the Contract should be sent:

Executive Director/Eastern Region, RailTel Corporation of India Limited, Chatterjee International Centre Building, 3rd Floor, 33A, Jawaharlal Nehru Road, Kolkata - 700 071.

10. Earnest Money

Earnest Money Deposit (EMD) shall be as is indicated in the Tender Notice and also in the Bid Data Sheet (BDS) Section-II, Chapter-2 of this Tender Document.

11. Performance Bank Guarantee

On receipt of Letter of Acceptance of Tender from the RailTel, the successful tenderer shall, within a period of 15 days, deposit in favour of M/s RailTel Corporation of India Limited, Kolkata an amount as is indicated in the Bid Data Sheet (BDS), Section-II, Chapter-2 of this Tender Document.

12. Specifications

Reference of specifications of the important equipments and materials required for execution of the contract is given in the Technical Specification. The work shall be executed in compliance with all the technical requirements given therein.

13. Schedule of Requirement

The various items to be supplied and services to be provided by the tenderer for the works are indicated in Schedule of Requirement as enclosed to this preamble (Section I, Chapter – 2). The tenderer is advised to quote for all the items for particular sections. The make and model of all the equipments proposed to be supplied must be indicated by the tenderer/s in the Schedule of Requirement. The quantity indicated in the Schedule of requirement is the estimated requirement and may change depending on the details survey. On this and other developments, the purchaser may exercise the option of increase/decrease of the quantity of the material.

14. Work to be done by the RailTel

Items of works to be done by RailTel if any are indicated in Bid Data Sheet (BDS)

15. Materials to be supplied by RailTel

Materials to be supplied by RailTel if any, for the scope of work under this tender, are indicated in Bid Data Sheet (BDS)/ , Section – II Chapter-2.

16. Materials to be supplied by Contractor

Tenderers special attention is invited to the fact that no material, except material as indicated in Section – I Chapter-2 (Schedule of work) shall arranged/supplied by RailTel for commissioning of the systems. All materials including the materials covered under the Schedule of Requirement and those required to achieve the end objective as required vide Section III of the tender document including Patch Chords, connectors/adaptors and any special protection materials needed are to be supplied by the contractor.

The material supplied by the contractor shall confirm to laid down RDSO/IRS/TEC/IS/Specs (latest) & shall be procured only from approved list of suppliers. Wherever the specifications have not been mentioned/ available, the material shall be of best industrial quality available in the market. The approval for supply of such materials shall be specifically taken from Executive Director/Eastern Region, RailTel Corporation of India Ltd., in this regard.

- 17.** As a good tender practice, the tenderer is expected to submit all the information in the relevant forms attached as Annexure to this document and suitably numbering each page of the bid documents with a index listing various documents with their serial numbers. In the absence of numbering of pages and the index list, there is a likelihood of important documents going unnoticed which may be against the interest of tenderer & RCIL will not be responsible.

18. Security Deposit

18.1 Security Deposit @5% of accepted cost should be recovered by percentage deduction from the contractor's "on account" bills. Provided also that in case of defaulting contractor the RailTel may retain any amount due to payment to the contractor on the pending " On account bills " so that the amounts so retained may not exceed 10 % of the total value of the contract.

18.2 Unless otherwise specified in the special conditions, if any , the rates for Deposit/rate of recovery / mode of recovery shall be as under :

- (a) Security Deposit for each work should be 5% of the contract value.
- (b) The rate of recovery should be at the rate of 10% of the bill amount till the full security deposit is recovered.
- (c) Security Deposits will be recovered only from the running bills of contractor and no other mode of collecting SD such as SD in the instruments like BG, FD etc shall be accepted towards Security Deposit.

Security Deposit shall be returned to the contractor after the physical completion of the work as certified by the competent authority. The competent authority shall normally be the authority who is competent to sign the contract.

- (d) No interest will be payable upon the Earnest Money and Security Deposit or amounts payable to the contractor under the contract.

SECTION – I

Chapter – 2

SCHEDULE OF WORKS

Name of the work: “Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi --Govindpur section in Ranchi Division of S.E. Railway for LHS work ” by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region” for 23 locations.

Railway: South Eastern Railway

Section: Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi --Govindpur section

Sl. No.	Description of work	Unit	Rate (Rs)	Qty	Amount (Rs.)
1	Supply, transportation and installation of RCC joint chamber with two piece top cover and bottom cover with holes for drainage and cable entry, as per drawing no. RCIL/ER/DRG-02/06. (Reinforcement drawing enclosed). This includes trenching for jointing pit, backfilling and ramming of the pit after placing the joint closure and cable loop in the chamber without causing any damage to the same and consolidation of soil as well as disposal of excess soil	No.	3096.12	46	142422
2	Supply, Transportation and fixing of RCC cable route markers as per drawing no. RCIL/ER/DRG-01/06. Markers shall normally be provided at a distance of every 100mtrs on the cable route, at places/corners where the route of the cable changes, on either side of culvers, bridges, L. C. Gates, road cuttings etc. These shall be engraved with letters “RCIL OFC” and suitably painted. The markers shall be painted with Green when placed near joint chambers and should be painted with orange at all other places. The engraved portion “RCIL OFC” should be painted with white.	No.	200.64	46	9229
3	Concreting to be provided : 1. In rocky area , 2. At bridge/Culverts , 3. Wherever necessary , as desired by RCIL Engr. The proportion of cement , metal and sand is 1:3:6 with curing and ensuring proper setting . Thickness should be 0.15 mtrs. And width is 0.3 mtrs. In situations 1 & 2.	Cu.Mtrs.	7096.05	31.05	220332

4	Trenching in normal soil to a depth of 1.2 metre and 300mm wide and backfilling after laying of OFC / pipe / duct as per specification	Mtrs.	50.62	8050	407494
5	Trenching in hard soil to a depth of 1.2 metre and 300mm wide and backfilling after laying of OFC / pipe / duct as per specification	Mtr.	78.23	2300	179932
6	Providing dry sand in FRP/RCC joint chambers up to 400mm height	No.	673.71	46	30991
7	Laying of OFC / QUAD Cable in trench and through HDPE / GI /RCC pipes where ever necessary.	Mtr.	11.04	12650	139712
8	Laying of HDPE duct in trenches. Supply and pulling of nylon rope through it.	Mtr.	11.04	11500	127011
9	Supply & Provision OFC Joint closure including Splicing (24 Fibre). The Joint Enclosures shall be Commscope , FOSC , ROXTEC, 3-M Make	No.	7942.79	46	365368
10	Trenching to a depth of 1 Mtrs. Below Rail/Road/Platform level , placing G.I.Pipe (as per IS 1239 pt.I & II) , 50 mm dia. (inside) in the trench made , backfilling and ramming .	Mtrs.	501.60	690	346105
11.	Supply & fixing of (perforated) G.I. Pipe (as per IS 1239 Pt. I & Pt.II) 50 mm ia (inside) for entry of cables on bridges/culverts as per drawing no. RCIL/ER/DRG-08 A & B /06 . Perforation of ppes to be done as per drawing no. RCIL/ER/DRG/11/07.	Mtrs.	434.41	230	99915
Total amount excluding GST					2068512.00
GST @ 18%					372332
Total estimated Amount including all applicable taxes (Rs.) incl. GST.				24,40,844.00	

SECTION-I**CHAPTER-3****Completion period**

Sl. No.	Name of the Section	Type of Project	Approx. Section Length	Completion Period
1	Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi -- Govindpur section	Diversion of OFC	12.650 KM (23 locations)	45 days

List of locations

Sr.no.	LHS/NHS/RHS in lieu of LC No.	Location of LC(KM)	Bet.Stns	Major section	Tentative location of proposed LHS
1	MH-3	357/32-34	MURI-SLF	HTE-MURI	357/24-26
2	MH-5	360/26-28	SLF-KITA	HTE-MURI	360/32-34
3	MH-6	363/30-32	SLF-KITA	HTE-MURI	363/33-34
4	MH-11	384/23-25	GATD-GAG	HTE-MURI	384/17-19
5	MH-19	406/1-3	TIS-GAG(UP)	HTE-MURI	406/507
6	MH-22	410/23-25	TIS-NKM	HTE-MURI	410/21-23
7	MH-24	412/23-25	TIS-NKM	HTE-MURI	412/17-19
8	MH-32	420/29-31	RNC-HTE	HTE-MURI	420/7-9
9	RL-4	424/9-425/0	RNC-PIS	RNC-LAD	425/0-1
10	RL-6	427/9-428/0	RNC-PIS	RNC-LAD	428/0-1
11	RL-13	440/7-8	PIS-TGB	RNC-LAD	440/2-3
12	RL-27	457/1-2	TGB-NJA	RNC-LAD	457/0-1
13	RL-21	449/7-8	TGB-NJA	RNC-LAD	449/4-5
14	RL-26	455/9-456/0	TGB-NJA	RNC-LAD	456/0-1
15	RL-28	460/2-3	TGB-NJA	RNC-LAD	460/6-7
16	RL-29	461/2-3	TGB-NJA	RNC-LAD	461/4-5
17	RL-31	464/4-5	TGB-NJA	RNC-LAD	464/0-1
18	RL-33	468/6-7	NJA-LAD	RNC-LAD	468/2-3
19	RL-34	470/4-5	NJA-LAD	RNC-LAD	470/5-6
20	RL-35	472/3-4	NJA-LAD	RNC-LAD	472/5-6
21	RL-39	478/3-4	NJA-LAD	RNC-LAD	479/0-1
22	RL-40	479/9-480/0	NJA-LAD	RNC-LAD	479/8-9
23	RL-42	483/5-6	NJA-LAD	RNC-LAD	483/7-8

NOTES:

1. Trenching and laying of cable in all type of soil

Trenching & back filling, without brick, for all types of soil for a depth up to 1.2 meter of appropriate width 300 mm, including marking of trench lines, making trial pits, cutting all trees and clearing of bushes en-route and cutting and carrying away debris and surplus earth, de watering where necessary etc.

2. Laying of cable at Platform/Pucca road crossing etc.

Excavation of pucca road/ platform at a depth of 1200 mm, placing Double Walled Corrugated pipe 90/76 mm. dia.(As per IS 14930,Pt- I&II),as per drg. No. RCIL/ER/DRG-03/06, refilling and then ramming, levelling of trenches and repairing the road to the satisfaction of RailTel's Engineer. This includes supply of DWC pipe, coupler and road repairing materials etc.

3. Laying of cable at kaccha roads/ under the low flooded bridges/ culverts/ other places as required

Excavation of trenches at kaccha roads/ under the low flooded bridges/ culverts/ places as advised by the site in charge of the RailTel , placing of DWC pipe 90/ 76 mm. dia.(As per IS 14930,Pt-I&II) or RCC pipe of 100 mm dia, as per drg. No. RCIL/ER/DRG-06/06A and RCIL/ER/DRG-06/06B inside excavated trenches, refilling and then ramming, levelling of trenches and repairing the road to the satisfaction of RailTel's Engineer. Under the low flooded bridges block concreting over DWC pipe has to be done as per drawing. This includes supply of DWC/RCC pipe as per requirement.

4. Laying of Cable in rocky area

- a. Chase cutting in hard rock terrain in accordance with the drawing No. drg. No. RCIL/ER/DRG-07/06 and backfilling after cable/duct laying as per standard specifications. This includes the cost of required materials to complete the job.
- b. Excavation of trenches including clearing of roots of trees etc., up to a depth of 0.5 Mtr. to 0.8 Mtr. and width of 0.3 Mtr. at the bottom in any soil including morum / hard/rocky soil near the vicinity of Guard of wall or Hill water drainage system, Back filling and ramming of the soil in trenches after cable laying/ placing HDPE pipe, RCC / DWC pipe(if required, as per site condition or instruction by Engineer-in-charge) and concreting throughout the length as per Instruction of Engineer-in-charge. Cost of DWC Pipe/RCC pipe, cement, brick etc will be born by Contractor.

5. Laying of Cable on Bridges

- a. Fixing of perforated G.I. Pipe (as per IS 1239 P-II, Medium Grade) 75mm. dia. for laying of cables on bridges/ culverts/ drains approaches or at places as advised by the site-in-charge of the RailTel as per the site condition, as per drg. No. RCIL/ER/DRG-05/06 and by making a brick work and concreting (1:2:4) over it by a layer of 150 mm. GI pipes 75mm. dia, bends, and flexible HDPE pipe of suitable dia. with clamps, brick, and the materials for concreting and fixing the pipe are to be supplied by the contractor at site. The measurement will be made on the basis of route length. The rate shall include cost of all the material required for the work.
- b. Fixing of perforated GI pipes(as per IS 1239 P-II, Medium Grade) 75 mm. dia. on girder bridge/ culverts as per drg. No. RCIL/ER/DRG- 08A/06 and RCIL/ER/DRG-08B/06 at the two ends of the bridge extending by suitable GI pipe bend at the corners/ bends and indicated in the drawing with clamps up to trench level of 1.2Mtr. GI pipes 75mm. Dia., GI bend, clamps of standard quality, the material for concreting and fixing pipe will be supplied by the contractor at site. The measurement will be made on the basis of route length. Contractor shall supply all the material required for the work at site. The rate shall include cost of material required for the work.

6. Laying of cable at Track Crossing

Execution of Boring/ Trench less horizontal boring (HDD) work for track crossing/ busy road crossing and supply, laying of DWC pipe 90/76 mm dia .(As per IS 14930,Pt-I&II)as required. Contractor will supply all the materials required for the work. The rate shall include all the materials required for the work.



SECTION –II

CHAPTER-1

SPECIAL CONDITION OF CONTRACT.

1. Tender Document
2. Agreement
3. Contract performance Guarantee
4. Contractor's office and Stores Depot
5. Use of Railway land
6. Program of work
7. Competent Supervisors
8. Not used
9. Not used
10. Test & Measuring Instruments, Special tools etc.
11. Stores to be supplied by contractor
12. Supply of Technical Literatures, Documentation Drawings & Completion Plan etc.
13. Spares
14. Long term availability of spares & System support
15. Quality assurance
16. Not used
17. Inspection of materials
18. Inspection of works
19. Quantum of work and variation in Quantities
20. Not used
21. Subletting and assignment
22. Execution of works
23. Not used
24. Maintenance of works
25. Clearance of site
26. Provisional Acceptance
27. Placing in Service & Maintenance Supervision
28. Final Acceptance
29. Warranty
30. Training
31. Infringement of Patents
32. License as per Govt. of India Contract Labour Act
33. Defaults and Delays
34. Loss Sustained Due to Default and Delay
35. Penalty for Delay in Completion
36. Adherence of time schedule
37. Contractors liabilities for Costs and Damages

38. Unit prices
39. Measurement of works
40. Terms of Payments
41. Final Payments
42. Final Settlement
43. Certificate for MODVAT BENEFITS on bills
44. Deductions from On Account Payment Bills
45. Taxes
46. Mobilisation Advance
47. Insurance
48. Rights of RailTel
49. Responsibilities of Contractor in respect of local Taxing etc.
50. Responsibility of contractor in respect of safety of man, equipment etc.
51. Consequences in cancellation
52. Strikes and lockouts
53. Guarantee
54. Rates of Extra items/ quantity



SPECIAL CONDITIONS OF CONTRACT

1. TENDER DOCUMENT

- 1.1 The goods and services required, bidding procedure and contract terms are prescribed in the tender document. The set of tender document issued for the purpose of bidding includes following together with any addendum and corrigendum thereto.
- 1.2 If the Tender submitted by a Tenderer is accepted and the contract awarded to the Tenderer, the various works coming under the purview of the contract shall be governed by tender documents mentioned above.
- 1.3 Any special conditions stated by the Tenderer in the covering letter submitted along with the tender shall be deemed to be a part of the Contract to such extent only as have been explicitly accepted by the RailTel.

2. AGREEMENT

The successful Tenderer shall within 15 days after having been called upon by notice to do so be bound to execute an agreement based on accepted rates and conditions, in such form as the RailTel may prescribe, and lodge the same with the RailTel together with the conditions of contract, specifications and Schedule of prices referred to therein duly completed. The form for agreement is included in Section V, Chapter 2 (Form No.3).

3. CONTRACT PERFORMANCE GUARANTEE

The successful bidder shall also give a Performance Bank Guarantee in the form of an irrevocable bank Guarantee amounting to 5% of total contract value for schedule as per form No.-4

3.1 The successful bidder shall have to submit a Performance Bank Guarantee (PBG) within 15 (Fifteen) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PBG beyond 15 (Fifteen) days and up to 30 days from the date of issue of LOA may be given by the authority who is competent to sign the contract agreement. However, a penal interest of 15% per annum shall be charged for the delay beyond 30 (thirty) days, i.e. from 31st day after the date of issue of LOA. In case the contractor fails to submit the requisite PBG even after 60 days from the date of issue of LOA, the contract shall be terminated duly forfeiting EMD and other dues, if any, payable against that contract. The failed contractor shall be debarred from participating in retendering for that work.

3.2 The Performance Bank Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.B.G shall be initially valid up to stipulated date of defect liability period and 60 days beyond that. In case, the time for completion gets extended, the contractor should extend the

validity of the P.B.G. up to such time for completion of defect liability period work plus 60 days.

3.3 The value of P.B.G. to be submitted by the contractor will not change for variation up to (+/-) 25% (either increase or decrease). In case during the course of execution, value of the contract increases by more than 25% of the original contract value, an additional Performance Bank Guarantee amounting to 5% (five percent) for the excess value over the original contract value shall be deposited by the contractor. Wherever the contracts are rescinded, the security deposit should be forfeited and the Performance Guarantee shall be encashed and the balance work should be got done separately.

3.4 The Performance bank Guarantee (PBG) shall be released after a period of 12 months of issue of Final Acceptance Certificate commencing immediately after completion of the work in the Block, which will be enforceable by RailTel.

3.5 Whenever the contract is rescinded, the Security Deposit shall be forfeited and the Performance Bank Guarantee shall be encashed. The balance work shall be got done independently without risk and cost of the failed contractor. The failed contractor shall be debarred from participating in the tender for executing the balance work. If the failed contractor is a JV or a Partnership firm, then every member/partner of such a firm shall be debarred from participating in the tender for the balance work in his/her individual capacity or as a partner of any other JV/partnership firm.

4. CONTRACTOR'S OFFICE & STORES DEPOT

The Contractor shall within ten days of issue of letter of acceptance of tender establish an office and store depot at a convenient place for receiving and storing equipments and materials and progressing field work expeditiously in consultation and with the approval of the purchaser's Engineer. He shall intimate the purchaser's Engineer address thereof to which all correspondence should be sent. Any communication sent to the contractor by post at his said address shall be deemed to have reached the contractor duly and in time. Important documents shall be sent by Registered post.

5. USE OF RAILWAY LAND:

Use of Railway land required by the contractor for construction of temporary offices, quarter(s), hutments etc. for the staff and for storing materials etc. will be permitted to him/them subject to approval by Railways, if available, at the charges prescribed by the Railways. The land will be restored to Railways by the contractor(s) in the same condition as when taken over or in vacant condition as desired by the Engineer after completion of work or at any earlier day as specified by the Engineer. Failure to do so will make the contractor(s) liable to pay the cost incurred getting possession of land.

6. PROGRAMME OF WORK

6.1 The Contractor shall have necessary resources to execute the work so that the entire work is completed within a period as mentioned in the preamble from the date of issue of Letter of Acceptance of the tender. He shall also have necessary resources to

take up the work simultaneously at more than one independent place in order to expedite the completion of work.

- 6.2 The Contractor who has been awarded the work shall as soon as possible but not later than 7 days from the date of receipt of the acceptance letter in respect of contracts with initial completion period of one year or less or not later than 15 days for other contracts have to submit the detailed programme of work indicating the time schedule of various items of works in the form of Bar Chart/PERT/CPM. He shall also submit the details of organization (in terms of labour and supervisors) plant and machinery that he intends to utilize (from time to time) for execution of the work within stipulated date of completion. The programme of work amended as necessary by discussions with the Engineer, shall be treated as the agreed programme of the work for the purpose of this contract and the contractor shall and endeavour to fulfil this programme of work. The progress of work will be watched accordingly in the liquidated damages will be with reference to the overall completion date. Nothing stated herein shall preclude the contractor in achieving earlier completion of item or whole of the works than indicated in the programme. All shorts of permission have to take by contractor with the consultation with site Engineer.
- 6.3 The Contractor shall be held responsible for the execution of the work according to the Program given above in full compliance of the various clauses of the Technical specifications, instructions/ drawings etc. Failure to comply with any of these will be dealt with as per provision laid down in Conditions of Tendering.
- 6.4 Approach roads, wherever available can be used for carting materials. While RailTel may facilitate the contractor for getting approval from the Railways, if required, for carting the material to the site, the responsibility for ensuring that the material reaches the site in time, lies entirely with the contractor. The contractor has to bear the necessary expenses for carting the material to the site.
- 6.5 The contractor will program his work in such a manner so as not to interfere in the working and movement of trains.

7. COMPETENT SUPERVISORS

- 7.1 The Contractor shall place and keep competent representatives/ Supervisors/ Engineers as his representative on the works who will be authorized to receive and acknowledge materials issued by the RailTel and take all orders issued by the RailTel. The said representatives shall be present at site during working hours and any written orders or instructions which the purchaser's Engineer may give to the said representatives of the contractor shall be deemed to have been duly given or communicated to the contractor.

8. TEST & MEASURING INSTRUMENTS AND SPECIAL TOOLS ETC.

- 8.1 Special tools & instruments as required for installation and commissioning of the work as detailed in preamble and to achieve and to objective shall be arranged by contractor at his own cost.

- 8.2 All tests and measuring instruments and other arrangements required for carrying out all the acceptance tests etc shall be provided by the contractor at his own cost.

9. STORES TO BE SUPPLIED BY CONTRACTOR

- 9.1 All materials required for the execution of the contract shall be arranged and supplied by the Contractor as detailed in the scope (Preamble) Section – I, Chapter - 1 so as to realize the end objective. The supply of equipments and materials shall also include required installation and other materials and documents etc which may not be specifically mentioned herein but which are necessary for completing the work in all respects.
- 9.2 For supply of Optical Fibre Cable as per RDSO specification given in the Schedule of Requirement, the tenderer should submit letter of authorization from the manufacturers appearing in the approved list of RDSO suppliers that they would be supplying the material and will provide backup support.
- 9.3 For supply of HDPE Duct as per TEC Specification, an authorization letter from the manufacturer appearing in the TEC approved suppliers should also be submitted.

10. SUPPLY OF TECHNICAL LITERATURES, DOCUMENTATION, DRAWINGS, INSTRUCTION BOOK & COMPLETION PLANS ETC.

- 10.1 The supply of equipment and materials shall include supply of two sets of printed documents from original equipment manufacturers with each equipment as given in technical supplement.
- 10.2 Except where printed documents are supplied with each equipment by original equipment manufacturer, all other documentation and information as mentioned in the technical specifications shall be prepared using CAD or any other software package duly approved by Engineer. In addition to what is specified in the technical specifications, two complete hard sets of documents shall also be supplied for ready use duly bounded in good plastic folders.

13 SPARES

Deleted

14 LONG TERM AVAILABILITY OF SPARES AND SYSTEM SUPPORT

Deleted

15. QUALITY ASSURANCE

- 15.1 In the event of RailTel waving off the inspection, the quality assurance department of the manufacturer shall carry out all the tests as per the specification and issue a certificate indicating clearly the test results and the adherence to the technical specifications. This is

without prejudice to the purchaser's right to accept or reject the supplies if not found in conformity to its requirement.

16 INSPECTION OF MATERIALS

- 16.1 Equipment of all types as per SOR shall be subjected to Acceptance test by RailTel or their authorized representative. Type approval test shall be carried out by RDSO for RDSO approved items. Type approval/test certificate issued by reputed, independent accredited agencies may be considered, if test procedures clearly bring out conformity with Tender Specifications including environmental conditions and resistance to EMI.
- 16.2 All equipments materials fittings and components will be subject to inspection by the purchaser or his representative at the manufacturer's factory/tenderer works before dispatch and no materials shall be dispatched until these are inspected and/or approved. The materials may also be inspected by the purchaser or his representative again at the contractor's depot.
- 16.3 All materials shall be procured from the manufacturers of repute/their authorized dealers. Such materials are to be accepted by the Engineer. The Contractor may be required to produce test certificate from the manufacturer wherever called for by the Engineer. In case of material to be supplied as per RDSO/TEC specification, should be procured from RDSO/TEC approved source only.
- 16.4 The cost of equipment and materials, all tests and/or analysis performed for inspection shall be borne by the Contractor.
- 16.5 The inspection charges, if any, payable to the purchaser's representative for carrying out the inspection shall be borne by the purchaser.

All equipments, materials, fittings and components will be subject to inspection by the purchaser or his representative at the manufacturer's factory/tenderer works before dispatch and no materials shall be dispatched until these are inspected and/or approved. The materials may also be inspected by the purchaser or his representative again at the contractor's depot.

- 16.6 All materials shall be procured from the manufacturers of repute/their authorized dealers. Such materials are to be accepted by the Engineer. The Contractor may be required to produce test certificate from the manufacturer wherever called for by the Engineer.
- 16.7 The cost of equipment and materials, all tests and/or analysis performed for inspection shall be borne by the Contractor.
- 16.8 The inspection charges, if any, payable to the purchaser's representative for carrying out the inspection shall be borne by the purchaser.

17 INSPECTION OF WORKS

The Engineer or his representative may inspect and test the various portions of the work at all stages and shall have full power to reject all or any portion of the work that he may consider to be defective or inferior in quality of materials, workmanship or design in comparison to what is called for in the specification. In the event of rejection of any work already executed and not in accordance with specification as in this tender and/or as determined by the Engineer or which the Contractor has been apprised, the Contractor shall carry out alterations/ replacements to such works to the satisfaction of the Engineer at his own cost and which no additional expenses will be borne by the RailTel. **The contractor has to obtain trench depth certificate from RailTel's in charge.**

18 QUANTUM OF WORK AND VARIATION IN QUANTITIES

- 18.1 Modification to Contract to be in writing – In the event of any of the provisions of the Contract requiring to be modified after the contract documents have been signed, the modifications shall be made in writing and signed by the RailTel and the Contractor, and no work shall proceed under such modifications until this has been done. Any verbal or written arrangement abandoning, modifying, extending, reducing or supplementing the Contract or any of the terms thereof shall be deemed conditional and shall not be binding on the RailTel unless and until the same is incorporated in a formal instrument and signed by the RailTel and the Contractor and till then the RailTel shall have the right to repudiate such arrangement.
- 18.2 The Engineer on behalf of the RailTel shall be entitled by order in writing to enlarge or extend, diminish or reduce the works or make any alterations in their design, character, position, site quantities, dimensions or in the method of their execution or in the combination and use of materials for the execution thereof or to order any additional work to be done or any works not to be done and the Contractor will not be entitled to any compensation for any increase / reduction in the quantities of work but will be paid only for the actual amount of work done and for approved materials supplied against a specific order.
- 18.3 Unless otherwise specified in the special conditions of the contract, the accepted variation in quantity for each individual item of the contract would be up to $\pm 25\%$ of the quantity originally contracted. The contractor shall be bound to carry out the work at the agreed rates and shall not be entitled to any claim or any compensation, whatsoever upto the limit of $\pm 25\%$ variation in quantity of individual items of works. In case of increase in quantity of an individual item by more than 25% of agreement quantity, for variation above 25% and up to 40%, the agreed SOR rate will be reduced by 2% and for variation beyond 40% and up to 50%, the agreed SOR rate will be reduced by 4%, For variation beyond 50%, the rate shall be negotiated for additional quantity in excess of 50% of agreement quantity..

19 SUBLETTING AND ASSIGNMENT

The contractor may enter into contract with suppliers for supply of materials under this contract.

20 The contractor may subcontract the execution of part(s) of the project with the prior approval of RailTel under following conditions:-

- The permitted subletting of work by the contractor shall not establish any contractual relationship between the sub-contractor and the RailTel and shall not relieve the contractor of any responsibility under the contract.
- The contractor shall arrange for effective supervision of sub contractor's work and remain solely responsible for materials supplied and for works carried out on his behalf by the sub contractor.

(C) The contractor shall arrange for effective supervision of sub contractor's work and remain solely responsible for materials supplied and for works carried out on his behalf by the sub contractor.

21 EXECUTION OF WORK

All the works shall be executed in strict conformity to the provisions of the contract document and with such explanatory detailed drawings, specifications and instructions as may be approved from time to time based on detailed design and engineering carried out by contractor in line with requirements as per contract document. The contractor shall be responsible for ensuring that the work throughout are executed in the most substantial, best workman ship using best quality of material and in strict accordance with the specifications and as per sound industrial practices, to the entire satisfaction of the RailTel.

22 CLEARANCE OF SITE

At the end of the work at each location the Contractor shall as a part of his contractual obligation leave the area completely neat and clean.

23 PROVISIONAL ACCEPTANCE

23.1 Immediately after the completion of the work of the entire section in all respects, the contractor shall certify and advise the purchaser in writing that the installation is (i) complete (ii) ready for satisfactory commercial service and (iii) ready to be handed over.

23.2 The test or tests specified in Technical supplement will be conducted jointly by purchaser and contractor as soon as possible after receipt of advice of completion of one sub-section by purchaser from the contractor. The test schedule shall be finalized by mutual discussion between the contractor and M/s. RailTel Corporation of India Limited, Kolkata 700071. Any breakages in the laid fibers, improper protective arrangement in bridges and culverts or any discrepancy or deviation from the tendered specifications, failure of component, modules, sub assemblies or equipment during the

commissioning test shall be replaced/repared free of cost by tenderer.

23.3 Purchaser's Engineer shall issue a Provisional Acceptance certificate for successful commissioning of the section covering all materials and services included in the Schedule of works after the final acceptance test as per the approved test procedures have been completed and the performance has been found to meet the specifications. RailTel's decision in this respect shall be final. The Provisional Acceptance Certificate shall be signed by both the parties. The period of maintenance/warranty of works shall commence from the date of issue of the Provisional Acceptance Certificate.

24 PLACING IN SERVICE & MAINTENANCE SUPERVISION

24.1 After the work has been completed & placed in service and Provisional Acceptance certificate issued by Purchaser's Engineer, the contractor shall be responsible for proper maintenance/warranty of the work for a period of twelve months from the date of commissioning.

During the period of maintenance/warranty, the contractor shall be responsible for making good, at his own cost, any work found defective. For this purpose, he shall have to depute his personnel to the site and replace/repair the defective work to the satisfaction of the purchaser's engineer.

24.2 The Contractor shall inspect all trenches after first monsoon and shrinkage etc. shall be refilled and rammed & trench surface brought to the original. No extra charge shall be payable for the same.

24.3 During this period of maintenance supervision if any lacuna is noticed in the work done by the contractor under the contract, the contractor will rectify the same free of cost. During such rectification if any faulty material/equipment/modules need replacement or repair, they shall be provided by the contractor from the set of equipment or modules that the contractor should bring to the site of installation in addition to all the materials to be supplied against this contract. Use of spare modules, if any, covered under the Schedule of material of this tender shall not be permitted to be used during installation, commissioning and period of maintenance / warranty.

25 FINAL ACCEPTANCE

25.1 The final acceptance of the works completed shall take effect from the date of expiry of the period of maintenance supervision as defined in clause 27 or the expiry of the last of the respective period of maintenance supervision of various sub-sections for which Provisional Acceptance Certificates are issued or brought into commercial operation, provided in any case that the contractor has complied fully with his obligations in respect of each item under the contract.

25.2 Notwithstanding the issue of Final Acceptance Certificate the contractor and the purchaser (subject to Sub Clause as above) shall remain liable for fulfilment of any obligation incurred under the provision of the contract prior to the issue of Final

Acceptance Certificate which remains unperformed at the time such certificate is issued and for determining the nature and extent of such obligation the contract shall be deemed to remain in force between the parties hereto.

26 WARRANTY

For material covered in SOR – Supply: -

All materials (Underground copper Cable etc.) supplied by the contractor shall be warranted against the defects for a period of 18 months from the date of delivery or 12 months from the date of placements of service whichever is earliest.

26.1 All materials supplied/work done by the Contractor shall be guaranteed against the defects for a period as prescribed in BDS from the date of issue of Provisional Acceptance Certificate. The contractor shall provide comprehensive warranty maintenance for all the items executed by him against this tender.

26.2 During the period of warranty, the contractor shall remain responsible to arrange replacement and for setting right at his own cost any equipment installed by him which is of defective manufacture or design or becomes unworkable due to any cause whatsoever. The decision of the RailTel's representative in this regard to direct the contractor to attend to any damage or defect in work shall be final and binding on the Contractor.

26.3 During the period of warranty, the contractor shall be responsible to the extent expressed in this clause for any defects that may develop under the conditions provided for by the contract and under proper use, arising from faulty materials, design or workmanship in the plant, or from faulty execution of the plant by the contractor but not otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect the portion is faulty.

26.4 If it becomes necessary for the contractor to replace or renew any defective portions of the system under this clause the provisions of this clause shall apply to the portions of the plant to be replaced or renewed until the expiration of three months from the date of such replacement or renewal or until the end of the warranty period whichever may be later. If any defect is not remedied within reasonable time, the purchaser may proceed to do the work at contractor's risk and expense, but without prejudice to any other rights which the purchaser may have against the contractor in respect of such defects. The tenderer has to recoup the faulty unit/equipment from the set of his own spares kept by him within a period of 24 hours. The locations where such spares are to be handed over to the Tenderer shall be indicated in the bid by the tenderer.

26.5 Until the Final Acceptance Certificate shall have been issued, the contractor shall have the right of entry, at his own risk and expense, by himself or his duly authorized representatives, whose names shall have previously been communicated in writing to the purchaser at all reasonable working hours upon all

necessary parts of the works for the purpose of inspecting the working and the records of the system and taking notes therefrom and, if he desires at his own risk and expense, making any tests subject to the approval of the purchaser which shall not be unreasonably withheld.

- 26.6 In subject of this warranty, the contractor shall make his Performance Guarantee as required under Clause 3 of Special Conditions of Contract, valid to cover the period of warranty as per Clause 29.4.

27 Training

Deleted

28 INFRINGEMENT OF PATENTS:

- (a) The Contractor is forbidden to use any patents or registered drawings, processes or patterns in fulfilling his contract without prior consent in writing of the owner of such patents, drawings, patterns or trade marks except where these are specified by the Purchaser himself. Royalties where payable for the use of such patented processes, registered drawings or patterns shall be borne exclusively by the Contractor. The Contractor shall advise the Purchaser of any proprietary rights that may exist on such processes, drawings or patterns which he may use of his own accord.
- (b) In the case of patents taken out by the Contractor of the drawings or patterns registered by him or of those patents, drawings or patterns for which he holds a license, the signing of the contract automatically gives the Purchaser the right to repair by himself the purchased articles covered by the patent or by any person or body chosen by him and to obtain from any sources he desires the component parts required by him for carrying out the repair work. In the event of infringement of any patent rights due to above action of the Purchaser he shall be entitled to claim damages from the Contractor on the grounds of any loss of any nature which he may suffer e.g. in the case of attachment because of counterfeiting.

29 LICENSE AS PER GOVT. OF INDIA CONTRACT LABOUR ACT

The Contractors are required to produce license as enjoined in the Government of India Contract Labour (Regulation and Abolition) Act (1978) with latest amendments, if any. They shall not be allowed to undertake or execute any work through contract Labour except under and in accordance with a license issued under the said Act in that behalf by the authorized licensing Officer.

30 DEFAULTS AND DELAYS

The Contractor shall execute the work with due diligence and expedition, keeping to the approved time schedule. Should he refuse or neglect to comply with any

reasonable orders given to him in writing by the Purchaser's Engineers in connection with the work or contravene the provision of the Contract or the progress of work lags persistently behind the time schedule due to his neglect, the Purchaser shall be at liberty to give seven days notice in writing to the Contractor requiring him to make good the neglect or contravention complained of and should the Contractor fail to comply with the requisitions made in the notice within seven days from the receipt thereof, it shall be lawful for the purchaser to take the work wholly or in part out of the Contractor's hands without any further reference and get the work or any part thereof, as the case may be, completed by other agencies at the expense of the Contractor without prejudice to any other right or remedy of the Purchaser. The contract shall be treated as terminated on the date a notice is issued by the purchaser to take the work wholly or in part out of the Contractor's hands. The purchaser shall be at liberty to encash the performance guarantee and forfeit the security deposit (for the work executed on date of termination of LOA) after the contract is terminated to reimburse the loss to purchaser.

31 LOSS SUSTAINED DUE TO DEFAULTS AND DELAYS

In the event of any loss to the purchaser on account of execution and/or completion of the work or any part thereof by agencies other than the contractor, in terms of clause 33 the contractor shall be liable to reimburse the loss to purchaser without prejudice to the other rights and remedies of the purchaser and the reimbursement in full or in part, as the case may be, shall be met at the option of the purchaser from out of all or any of the following sources viz :

- (a)
 - (i) Any amount due and payable to the contractor by the purchaser on any account whatsoever;
 - (ii) The Contractor's security deposit in the hands of the purchaser as far as available, and;
 - (iii) Any other assets whatsoever of the contractor;
- (b) In the event of re-imbursement from out of sources (i) and/or (ii) above mentioned, the purchaser shall have the right of appropriation suo-moto.

32 LIQUIDATED DAMAGES FOR DELAY IN COMPLETION

32.1 If the contractor fails to execute and complete the work within the time specified in the Agreement or within the period of extension granted under Para 36, the contractor shall accept reduction in the total amount payable to him by the purchaser at the rate of 0.5% per week or part thereof (rounded off to the nearest whole number) of the total value of the contract for the actual delay occasioned beyond the appointed time by which the work shall have been completed under the contract.

32.2 The total value of reduction on account of above shall be limited to maximum of

10% (Ten percent) of the total contract value.

- 32.3** Such reduction shall be accepted by the purchaser in full satisfaction of the contractor's liability arising from delay only. This reduction of value for delay in completion will be applicable separately for each stage of completion of work. When two or more stage of completion are specified in the contract, the purchaser's engineer shall at his sole discretion specify a time limit within which the unfinished portion of the work shall be completed after serving on the contractor a notice of Purchaser's intention to recover the said penalty in Form 11. In the event of failure of the contractor, the purchaser shall be at liberty to take action in accordance with provisions in Para 33 and 34.

NOTE:

For purpose of this Para the value of work shall be calculated on the basis of unit prices included in schedule of requirements/work with the increase/decrease of the overall %age accepted for the contract.

33 ADHERENCE OF TIME SCHEDULE

- 33.1** Timely completion of the work is the essence of the contract. While delay in execution will attract penalty.
- 33.2** If any delay as aforesaid in clause 35 shall have arisen from any cause which the Purchaser may agree as being a reasonable ground for extension of time the purchaser's engineer or his representative may allow such additional time as he may in his absolute discretion consider to be reasonably justified by the circumstances of the case. Such extensions shall be granted, on request from contractor, without liquidated damages in the Form No.11.

34 CONTRACTOR'S LIABILITIES FOR COSTS AND DAMAGES (Please refer clause 52 of General Conditions of Contract (Part –II, Chapter -2

35 UNIT PRICES

This tender consists of a percentage bidding system. The estimated prices of each and every item of the schedule are indicated in the Schedule of works. The tenderer is expected to quote the %age above (+) or below (-) the total estimated price indicated in the schedule. For the purpose of calculating the unit price for releasing payment item-wise, the total %age above/below finalized for the entire schedule will form the basis for calculation of the unit prices where the estimated prices of the individual items of the schedule will be marked up/below the final overall %age accepted.

The percentage above/below finalized for the entire schedule shall be firm and on all-inclusive basis of all types of taxes & GST.

- 35.1 The prices quoted by the Tenderer shall include the prices of materials including all incidental charges for transport, loading/unloading and handling of materials, commission for arranging dispatch by rail direct from manufacturer's factory and completing all necessary formalities in this respect, such as submission of forwarding notes, arranging placement of Wagon, collection of banker's charges for Bank guarantee, Indemnity Bonds inclusive of cost of Stamp etc. as also siding or shunting charges, if any, levied by the Railway.
- 35.2 The prices shall include all taxes, duties, Royalty and levies (including Octroi etc.) and works contract tax etc. applicable on this Works Contract under the law of land and no extra payment shall be payable on any account. The required form applicable WCT purpose will be supplied to the Contractor as applicable in the state where the Contract is being executed.
- 35.3 The prices quoted by the tenderer shall include all costs of Administration of Contract, Insurance Premium, Banker's charges for guarantees, cost of storage, loading-unloading and handling of materials and for any road transport which the contractor may use for carriage of materials to his depot and the site of work. The prices shall include the cost of works and adjustments necessary to be done by the contractor during or after tests carried out by the purchaser.
- 35.4 The Tenderers should give a declaration that any set off in respect of duties on inputs as admissible under law is being totally and unconditionally passed on to the purchaser in the price quoted by him (see clause 43).
- 35.5 All taxes, duties and levies (including Octroi etc.) arising out of the transaction between the contractor and his sub contractor/supplier for this work will be included in the rates quoted by the contractor in the relevant Schedule of requirement.
- 35.6 No import license shall be arranged by the RailTel for this work.

36 MEASUREMENT OF WORKS

- 36.1 Measurements for the works shall be made in accordance with approved designs & drawings and measured in relevant units except where provided otherwise. The measurements will be made generally in accordance with standard engineering practices.
- 36.2 All measurement, method of measurement, meaning intent of specifications and interpretation of Special Conditions of Contract, given and made by the Purchaser or by the Purchaser's Engineer shall be final and binding.
- 36.3 All payment due to the contractor will be made through E-payment/RTGS/NEFT & Complete RTGS particulars to be furnished by contractor to facilitate payment

to him..

- 36.4 Payments for the works shall be made in accordance with approved design & drawings and measured in relevant units except where provided or otherwise. The measurements will be made generally in accordance with standard engineering practices. The abstract of quantities arrived shall be entered in the measurement book and signed by the contractor and the authorised representative of RAILTEL.

37 TERMS OF PAYMENT

- 37.1 All bills shall be submitted to the Executive Director, Eastern Region under whose jurisdiction the work has been executed. While submitting the bills, the break-up of taxes may be furnished so that any CENVAT/INPUT credit may be availed by RailTel.

37.2 “On –Account” Payments

- a. The Contractor shall be entitled to be paid from time to time by way of “On Account “payment only for such works as in the opinion of Engineer he has executed in terms of the contract. All payment due to the Engineer’s or the Engineer’s representatives certificate of measurements shall be subject to any deduction which may be made under these presents and shall further be subject to , unless otherwise required by clause no. 16 of these conditions a retentions of 10% by way of security deposits , until the amount of security deposit by way of retained earnest
- b. money and such retentions shall amount to 10% of the total value of the contract provided always that the Engineer may withhold any certificate if the works or any part thereof are not being carried out to this satisfactions.
- c. On-Account payments not prejudicial to final settlement : “On account “ payments made to the contractor shall without prejudice to the final making up of the accounts (except where measurement are specially noted in the measurement Book as “ Final Measurements” and as such have been signed by the contractor) and shall in no respect be considered or used as evidence of any facts stated in or to be inferred from such account not of any particular quantity of work having been executed not of the manner of its execution being satisfactory.

37.3 On Accounts payment :

40.3.1 Progress Payment for Execution of Works:

“Progress payment “shall be made separately for each items/sub-item of work given in the Schedule of works (SORs), twice in a calendar month:

- 40.3.2 **90%** (Ninety percent) of the payment per locations after completion of at least 10 (ten) locations of Schedule of works shall be paid after Link (Sub-Section)

commissioned & after joint measurement and testing i.e. depth checking & fiber testing of all fibers to the satisfaction of Engineer/ supervisor in-charge of the work and proper entry in the measurement book jointly by contractor and Engineer/Supervisor in-charge of RailTel.

- 40.3.3** 5% (Five percent) value of the works/services completed shall be made on issue of Provisional Acceptance Certificate by RailTel as per clause 26 above.

38 FINAL PAYMENT

Final payment of 5% (Five percent) of the contract value shall be made after satisfactory operation & maintenance of the work under the supervision of the contractor for a period of one year after commissioning and issue of Final Acceptance Certificate.

- 38.1** On the basis of Final Acceptance Certificate from the Purchaser's Engineer for all the works at all the locations covered in this contract and reconciliation of materials issued, the final bill for the balance payment for each item of work shall be submitted by the Contractor along with a clear 'No Claim Certificate'. The Final Acceptance Certificate shall be issued by the Purchaser's Engineer only when he has accepted the work wholly after conducting the acceptance tests as per the details given in the technical specification and supplement.

38.2 FINAL ACCEPTANCE CERTIFICATE

Final Acceptance Certificate shall be issued by the Purchaser's Engineer after completion of one year's period of maintenance as covered in the contract. The Final Acceptance Certificate shall be issued by the Purchaser's Engineer only when he has accepted the work wholly after conducting the acceptance tests as per the details given in the technical specification and supplement.

On the basis of Final Acceptance Certificate from the Purchaser's Engineer for all the works at all the locations covered in this contract and reconciliation of materials issued, the final bill for the balance payment for each item of work shall be submitted by the Contractor along with a clear 'No Claim Certificate'. The Final Acceptance Certificate shall be issued by the Purchaser's Engineer only when he has accepted the work wholly for the entire section after conducting the acceptance tests as per the details given in the technical specification and supplement.

39 FINAL SETTLEMENT

On expiry of the warranty period and issue of the certificate of final acceptance of the entire installations, the security deposit (Para 3) will be refunded or Bank

Guarantee released to the Contractor after adjustment of any dues payable by the contractor.

40 CERTIFICATE FOR CENVAT BENEFITS ON BILLS

- (a) The Contractor should submit the following certificate along with the bills: (see clause 38.4) :

"We certify that no additional duty set offs on the Goods supplied by us have accrued under the CENVAT Scheme in force on the date of supply after we submitted our quotations and submitted the present bill".

- (b) In the event of CENVAT credit being extended by the Government of India to more items that already covered, the firm should advise the purchaser about the additional benefits accrued through a letter containing the following certificate, or any variation thereof, as may be considered necessary by RailTel administration:-

"We hereby declare that we can avail additional duty set offs as per latest MODVAT scheme in force now and we hereby give a reduction of (_____) per unit and agree to revise the prices indicated in the order. The current E.D. of (_____) is payable on this reduced price. Therefore, we request you to amend the order accordingly."

41 DEDUCTION FROM ON ACCOUNT PAYMENT BILLS – PROGRESS PAYMENT

- (i) All costs, damages or expenses, which RailTel may have been paid or incurred which under the provisions of contract are Contractor's obligations will be deducted by RailTel from progress payment Bills/Invoice of Contractor, as and when it is understood that such an expense has been incurred or paid for.
- (ii) All such claims of RailTel shall, however, be duly supported by appropriate and certified vouchers, receipts or explanations as are available to enable the Contractor to identify such claims.

42 TAXES

- a. The Contractor and all personnel employed by him shall pay such taxes like Income Tax as are payable under statutory laws of India and the Purchaser **WILL NOT ACCEPT** any liability for the same.
- b. Deduction of Income Tax at source as per provisions of Finance Act and Income Tax in force shall be made from the Contractor/Sub-Contractor and the amount so deducted may be credited to the Central Government.
- c. Wherever the law makes it statutory for the Purchaser to deduct any amount towards Sales Tax on Works Contract, the same will be deducted and remitted

to the concerned authority.

d. GST clause

42.d.1 The imposition of any new tax and/or increase in the aforesaid taxes, duties levies (including fresh imposition of any other tax like Goods and Service Tax subsuming the indirect taxes like Excise, VAT, Service Tax etc.), after the last stipulated date for the receipt of tender including extensions if any and the bidder thereupon necessarily and properly pay such taxes/ levies/ cess, the bidder shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of RailTel attributable to delay in execution of work within the control of bidder. The bidder shall, within a period of 30 days of the imposition of any tax or levy or cess give a written notice thereof to Railtel that the same is given pursuant to this condition, together with all necessary information including details of input credit relating thereto. In the event of non-payment/ default in the payment of any of the above taxes RailTel reserve the right to with-hold the dues/ payments of bidder and make payment to Local /State/ Central Government authorities as may be applicable.

42.d.2 After imposition of GST as explained in clause _____ above, bidder shall issue proper invoice to RailTel for availing input credit of CGST/SGST/ IGST GST will not be reimbursed in the absence of proper invoice for availing input tax credit.

42.d.3 The break-up of price of each item of SOR in terms of basic unit price, Excise Duty, Sales Tax, Freight, Custom Duty, Forwarding, Packing, Insurance and any other levies / charges already paid or payable by the bidder shall be quoted in the SOR. Bidder has to quote all inclusive rates (with tax break-up). Even after the introduction of GST, all inclusive unit rates payable will not exceed the all inclusive rates offered by the bidder. However if the rates are reduced in the current tax structure the bidder has to pass on the benefit to RailTel.

43. MOBILISATION ADVANCE

Deleted

45 INSURANCE

45.1 The Contractor shall take out and keep in force a policy or policies of insurance against all liabilities of the Contractor or the Purchaser at common law or under any statute in respect of accidents to persons who shall be employed by the contractor in or about the site for the purpose of carrying out the works on the site. The Contractor shall also take out and keep in force a policy or policies of Insurance against all recognized risks to their offices and depots. Such insurance shall in all respects be to the approval of the Purchaser and if he so requires in his name.

45.2 INSURANCE OF MATERIALS & INSTALLATIONS

The Contractor shall take out and keep in force a Policy or policies of Insurance for all materials including RailTel supply materials/equipments irrespective of whether used up in the portion of work already done or kept for the use in the balance portion of the work until such works are provisionally handed over to the RailTel. For this purpose, the works are deemed to have been provisionally handed over when Provisional Acceptance Certificate is issued as per para 26.

- 45.3 The Contractor should, however, insure the stores brought to site, against risks in consequence of war and invasion, as required under the Emergency Risk (Goods) Insurance Act in force from time to time.
- 45.4 It may be noted that the beneficiary of the insurance policy should be RailTel or the policies should be pledged in favour of RailTel. The contractor shall keep the policy/policies current till the installations are provisionally handed over to the purchaser. It may also be noted that in the event of contractor's failure to keep the policy current and alive, renewal of policy will be done by purchaser for which the cost of the premium plus 20% of premium shall be recovered from the contractor.
- 45.5 For the purpose of enabling the contractor to take the insurance cover in connection with the contract, the purchaser's Engineer will advise the approximate price of all the materials supplied by RailTel to the Contractor.

46 Rights of RailTel:

RailTel reserves to itself the following rights in respect of this contract without entitling the Contractor to any compensation.

- 46.1 To get the work done through another agency, in the event of poor progress or the Contractor's inability to progress the work for Completion as stipulated in the contract, poor quality of work, persistent disregard of instructions of Architect / RailTel, assignment, transfer, subletting of the contracted work without written permission of RailTel, non-fulfilment of any contractual obligations etc. and to claim / recover compensation for such losses from the Contractor including RailTel's supervision charges and overheads from Security Deposit / other dues.
- 46.2 To withdraw any portion of work and / or to restrict / alter quantum of work as indicated in the contract during the progress of work and get it done through the contractor of the adjacent section and / or by the departmental labour to suit RailTel's requirements or in case RailTel decides to advance the compensation due to other emergent reasons.
- 46.3 To terminate the contract after due notice and forfeit the Security Deposit and recover the loss sustained in getting the balance work done through other agencies in addition to liquidated damages in the event of:

- 46.3.1 Contractor's continued poor progress.
- 46.3.2 Withdrawal from or abandonment of the work before completion of the work.
- 46.3.3 Corrupt act of the Contractor
- 46.3.4 Insolvency of the Contractor.
- 46.3.5 Persistent disregard of the instructions of RailTel.
- 46.3.5.1 Assignment, transfer, subletting of the contract work without written permission.
- 46.3.6 Non-fulfilment of any contractual obligations.

□

- 46.4 To recover any moneys due from the Contractor from out of any moneys due to the Contractor under this or any other Contract or from the Security Deposit.
- 46.5 To determine the Contract or to restrict the quantum of work and pay for the portion of work done as per the satisfaction of RailTel.
- 46.6 To effect recoveries from any amounts due to the Contractor under this or any other contract or in any other form the moneys which RailTel is forced to pay to anybody due to Contractor's failure to fulfil any of his obligations.
- 46.7 To restrict or increase the quantity and nature of work to suit site requirements, since the tender specifications are based on preliminary documents and quantities furnished therein are indicative and approximate and the rates quoted shall not be subject to revision in any manner whatsoever.
- 46.8 To deploy RailTel's or adjacent-section-contractor's skilled and semiskilled workmen in case of emergency / poor progress / deficiency in skill on the part of the employees of the Contractor and to recover the expenditure on account of the same from the moneys due to the Contractor.
- 46.9 While every endeavour will be made by RailTel to this end, RailTel cannot guarantee uninterrupted work due to conditions beyond its control. The Contractor will not be entitled to any compensation / extra payment on this account.

In the event of any dispute of technical nature, the decision of RailTel shall be final and binding to the Contractor.

47 Responsibilities of Contractor in respect of local taxing rules, local laws, employment for workers etc.:

The following are the responsibilities of the Contractor in respect of observance of local laws, employment of personnel, payment of taxes etc.

- 47.1 The tenderer must be registered in relevant states for the payment of Works Contract Tax OR tenderer must register for the same and produce the same along with the bills for payment.
- 47.2 As far as possible, unskilled workers shall be engaged from the local areas in which the work is being executed.

- 47.3 The Contractor at all times during the continuance of this contract, shall in all his dealings with the local labour for the time being employed on or in connection with the work, has due regard to all local festivals, religious and other customs.
- 47.4 The Contractor shall comply with all State and Central Laws, Statutory Rules, Regulations etc., such as The Payment of Wages Act, The Minimum Wages Act, The Workmen's Compensation Act, The Employer's Liability Act, The Industrial Disputes Act, The Employee's Provident Fund Act, Employee's State Insurance Scheme, The Contract Labour (Regulations and Abolitions Act, 1970) and other Acts, Rules and Regulations for labour as may be enacted by the Government during the tenure of the Contract and having force or jurisdiction at site. The Contractor shall give to the local Governing Body, Police and other concerned authorities all such notice as may be required under law.
- 47.5 The Contractor will obtain independent licence under the Contract Labour (Regulations and Abolition Act, 1970) from the concerned authorities based on the certificate (Form -V) issued by the principal employer / customer, if such license is required under the law.
- 47.6 The Contractor shall pay all taxes, fees, licence charges, deposits, duties, tolls, royalty, commissions or other charges which may be leviable on account of any of his operations connected with this contract. In case, RailTel is forced to make any such payment, RailTel shall recover the same from the Contractor either from moneys due to him or otherwise as deemed fit.
- 47.7 The Contractor shall be responsible for the provision of health and sanitary arrangements more particularly described in the Contract Labour (Regulations and Abolition Act, 1970) and safety precautions as may be required for safe and satisfactory execution of the contract.
- 47.8 The Contractor shall be responsible for proper accommodation including adequate medical facilities for the personnel employed by him.
- 47.9 The Contractor shall be responsible for the proper behaviour and observance of all regulations by the staff employed by him.
- 47.10 The Contractor shall ensure that no damage is caused to any person / property of other parties working at site. If any such damage is caused, it shall be the responsibility of the Contractor to make good the losses and compensate them.
- 47.11 All the properties/equipment/components of RailTel loaned with or without deposit, to the Contractor shall remain the properties of RailTel. The Contractor shall use such properties for the purpose of execution of this contract. All such properties/equipment / component shall be taken to be in good condition unless notified to the contrary by the Contractor within 48 hours. The Contractor shall return them in good condition as and when required by RailTel. In case of non-return, loss, damage, repairs etc., the cost thereof, as may be fixed by the Engineer, will be recovered from the Contractor.
- 47.12 It shall not be obligatory on the part of RailTel to supply any tools and tackles or

materials other than those specifically agreed to be given by RailTel.

- 47.13 The Contractor shall fully indemnify and keep indemnified RailTel against all claims of whatever nature arising during the course of execution of this contract.
- 47.14 In case the Contractor is required to undertake any work outside the scope of this contract, the amount payable shall be as may be mutually agreed upon.
- 47.15 Any delay in completion of works or non-achievement of periodical targets, due to reasons attributable to the Contractor, will have to be compensated by the Contractor either by increased manpower and resources or by working extra hours or more than one shift at no extra cost to RailTel.
- 47.16 The Contractor will be directly responsible for payment of wages to his workmen. A pay-roll sheet giving details of all payments made to the workmen duly signed by the Contractor's representative should be furnished to RailTel, if called for.
- 47.17 In case of any class of work for which there is no specification laid down in the contract, such work shall be carried out in accordance with the instructions and requirements of the Engineer.
- 47.18 No levy, payment or charges made or imposed shall be impeached by reason of any clerical error or by reason of any mistake in the amount levied, demanded or charged.
- 47.19 No idle labour charges will be admissible in the event of any stoppage of work resulting in the Contractor's workmen being rendered idle due to any reason at any time.
- 47.20 The Contractor shall take all reasonable care to protect the materials and the work till such time it has been taken over by RailTel.
- 47.21 Contractor shall not stop work or abandon the site for whatsoever reason or dispute, excepting for force majeure conditions. All problems / disputes shall be separately discussed and settled without effecting the progress of work. Stoppage or abandonment of work other than under force majeure conditions shall be treated as breach of work of contract and dealt with accordingly.
- 47.22 The Contractor shall keep the area of work clean and shall remove the debris etc. outside of RailTel's premises, while executing day-to-day work. Upon completion of work, the Contractor shall remove from the vicinity of work, all scrap, packing materials, rubbish, unused and other materials and deposit them in places specified by the Engineer. The Contractor will also demolish all the hutments, sheds, offices, etc., constructed and used by him and shall clean the debris. In the event of his failure to do so, the same will be arranged to be done by the RailTel and the expenses recovered from the Contractor.
- 47.23 The Contractor shall execute the work in the most substantial and workmen like manner in the stipulated time. Accuracy of work and timely execution shall be the essence of this contract. The Contractor shall be responsible to ensure that the

quality, assembly and workmanship conform to the dimensions and clearance given in the drawings and/or as per the instructions of the Engineer.

- 47.24 The Contractor shall furnish fortnightly labour deployment report indicating the classification and number of workmen engaged, date wise and category wise. Besides, the Contractor shall also furnish progress reports on work at regular intervals as required by the Engineer.

48 **Responsibility of contractor in respect of safety of men, equipment, material and environment:**

All safety rules and codes applied by RAILTEL at site shall be observed by the Contractor and his workmen without exception. The Contractor shall be responsible for the safety of the equipment / material and work to be performed by him.

- 48.1 Contractor shall also take such additional precautions as may be indicated from time to time by the Engineer, with a view to prevent pilferage, accidents, fire hazards etc. Suitable number of Clerical Staff, watch and ward, Storekeepers to take care of equipment, material, construction tools and tackles shall be posted at site by the Contractor till the completion of work under this contract. The Contractor shall arrange for such safety devices as are necessary for this type of work and carry out the requisite site tests of handling equipment, lifting tools, tackles etc. as per usual standards and practices.

- 48.2 The Contractor shall provide to its work force and ensure the use of the following personal protective equipment as found necessary and as directed by the authorized RailTel officials:

- Safety Helmets conforming to IS - 2925.
- Safety Belts conforming to IS - 3521.
- Safety Shoes conforming to IS - 1989.
- Eye & Face Protection devices conforming to IS-8520 & IS-8940.
- Hand & Body Protection devices conforming to IS-2573, IS-6994, IS-8807 & IS-8519.

- 48.3 All tools, tackles, lifting appliances, material handling equipment, scaffolds, cradles, safety nets, ladders, equipment etc. used by the Contractor shall be of safe design and construction. These shall be tested and certificate of fitness obtained before putting them to use and from time to time as instructed by authorized RailTel official who shall have the right to ban the use of any item.

- 48.4 All electrical equipment, connections and wiring for construction power, its distribution and use shall conform to the requirements of Indian Electricity Act and Rules. Only electricians licensed by the appropriate statutory authority shall be employed by the Contractor to carry out all types of electrical works. All electrical appliances including portable electric tools used by Contractor shall have safe plugging system to source of Power and be appropriately earthed.

Where it becomes necessary to provide and / or store petroleum products, explosives, chemicals and liquid or gaseous fuel or any other substance that may cause fire or explosion, the Contractor shall be responsible for carrying out such provision and / or storage in accordance with the rules and regulations laid down in the relevant Government Acts, such as Petroleum Act, Explosive Act, Petroleum and Carbide of Calcium Manual of the Chief Controller of Explosives, Government of India etc. Prior approval of the authorized RailTel official at the site shall also be taken by the Contractor in all such matters.

- 48.5 The Contractor shall arrange at his cost (wherever not specified) appropriate illumination at all work spots for safe working, when natural daylight may not be adequate for clear visibility.
- 48.6 In case of a fatal or disabling injury/accident to any person at construction sites due to lapses by the Contractor, the victim and/or his/her dependants shall be compensated by the Contractor as per statutory requirements. However, if considered necessary, RailTel shall have the right to impose appropriate financial penalty on the Contractor and recover the same from payments due to the Contractor for suitably compensating the victim and/or his/her dependents. Before imposing any such penalty, appropriate enquiry shall be held by RailTel giving opportunity to the Contractor to present his case.
- 48.7 In case of any damage to property due to lapses by the Contractor, RailTel shall have the right to recover the cost of such damages from the payments due to the Contractor after holding an appropriate enquiry.
- 48.8 In case of any delay in the completion of jobs due to mishaps attributable to lapses by the Contractor, RailTel shall have the right to recover cost of such delay from the payments due to the Contractor, after notifying the Contractor suitably and giving him opportunity to present his case.
- 48.9 If the Contractor fails to improve the standards of safety in its operation to the satisfaction of RailTel, after being given reasonable opportunity to do so and / or if the Contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instructions regarding safety issued by the authorised RailTel official, RailTel shall have the right to take the corrective steps at the risk and cost of the Contractor after giving a notice of not less than seven days indicating the steps that would be taken by RailTel.
- 48.10 The Contractor shall submit report of all accidents, fires, Property damage and dangerous occurrences to the authorised RailTel official immediately after such occurrence, but in any case not later than 12 hours of the occurrence. Such reports shall be furnished in the manner prescribed by RailTel. In addition, periodic reports on safety shall also be submitted by Contractor to the authorised RailTel official from time to time as prescribed.
- 48.11 During the course of construction, alteration or repair scrap lumbars with protruding nails, sharp edges etc., and all other debris including combustible scrap shall be kept cleared from working areas, passage ways and stair in and around site.

Cylinders shall be moved by tilting and rolling them on their bottom edges. They shall not be intentionally dropped, struck or permitted to strike each other violently. When cylinders are transported by powered vehicles, they shall be secured in a vertical position.

48.12 The Contractor shall be responsible for the safe storage of his radioactive sources.

All the Contractor's supervisory personnel and sufficient number of workers shall be trained for fire fighting and shall be assigned specific fire protection duties. Enough number of such trained personnel must be available during the tenure of the contract.

48.13 Contractor shall provide enough fire protecting equipment of the types and numbers at his office, stores, erection site, other temporary structures, labour colony area etc. Access to such fire protection equipment shall be easy and kept open at all times. Compliance of the above requirement under fire protection shall in no way relieve the Contractor of any of his responsibility and liabilities to fire accident occurring. In the event fire safety measures are not to RailTel's satisfaction, RailTel shall have option to provide the same and recover the cost plus incidentals from Contractor's bills and / or impose penalty as deemed fit by the authorised representative of RailTel.

49 **Consequences of cancellation:**

Whenever RailTel exercises its authority to terminate the contract/withdraw a portion of work, the work may be got completed by any other means at the Contractor's risk and cost provided that in the event of the cost of completion (as certified by the Authorised representative of RailTel which shall be final and binding on the Contractor) being less than the contract value, the advantage shall accrue to RailTel. If the cost of completion exceeds the moneys due to the Contractor under the contract, the Contractor shall either pay the excess amount demanded by RailTel or the same shall be recovered from the Contractor. This will be in addition to the forfeiture of Security Deposit and recovery of liquidated damages as per relevant clauses.

49.1 In case RailTel completes the work under the provisions of this clause, the cost of such completion to be taken into account for determining the excess cost to be charged to the Contractor shall consist of cost of materials purchased and/or labour provided by RailTel with an addition of such percentage to cover supervision and establishment charges as may be decided by RailTel.

50 **Strikes and Lockouts:**

The Contractor will be solely responsible for all disputes and other issues connected with his workmen. In the event of Contractor's workmen resorting to strike or the Contractor resorting to lockout and if the strike or lockout so declared

is not settled within a period of one month, RailTel shall have the right to get the work executed by employing its own men or through other agencies or both. The cost incurred by RailTel in this regard shall be recovered from the Contractor.

For any purpose whatsoever, the employees of the Contractor shall not be deemed to be in the employment of RailTel.

51 **Guarantee:**

Even though the work will be carried out under the supervision of the authorized representative of RailTel, the Contractor will be responsible for the quality of the workmanship and shall guarantee the work done for a period of **one year from the date of completion of work** as certified by the authorized representative of RailTel and shall rectify free of cost to RailTel all defects arising out of faulty erection during the guarantee period starting from the date of completion of rectification. In the event of the Contractor failing to repair the defective works within the time specified by the authorized representative of RailTel, RailTel may proceed to undertake the repairs of such defective works at the Contractor's risk and cost, without prejudice to any other rights and recover the same from out of any moneys payable to the Contractor or by other legal means.

51.1 The Tenderers has to enter in the register all the material / tools and plants brought to the site for working in the premises available with the Security Staff / Site In-charge / Site Register.

51.2 The Tenderers should get all the materials inspected and approved from the authorized representative of RailTel before use. In case of non-Approval, if authorized representative of RailTel wish to check the material, cost of breakages and re-doing the same Work will be the sole responsibility of the Contractor own.

51.3 The rates should be quoted in the same units as mentioned in the tender schedule.

The Bill of Quantities enclosed are very indicative and can vary as per the Site conditions, requirements of RailTel or Design of authorized representative of RailTel and the rates quoted shall not be subject to revision.

51.4 The rates quoted in the tender shall include all charges of material, labour, lifts, scaffoldings, any tools & plants, freight, labour conditions, fluctuations in the rates, excise duty, shift working, Octroi & other taxes and shall be firm for the duration of the contract and any extended period of the contract. No escalation in the rates shall be allowed under any circumstances even in case of extension of time period.

51.5 The successful Tenderer is bound to carry out all the items of work necessary for the completion of the job even though the same may not have been included in the schedule of quantities. Rates for such items shall be settled in consultation with authorized representative of RailTel.

The successful Tenderer will have to make samples (proto-type) of all the furniture items for the final approval of authorized representative of RAILTEL before taking up the entire execution of the work. In case of any modifications / additions, the same shall be incorporated in the entire furniture items without any additional financial implications. Water and Electricity shall be provided free of cost at one point on each floor, further extensions if required shall be borne / arrange by the Tenderer on its own.

52

Rates of extra items/quantity:

The rates of the extra items will be derived from the tender wherever possible.

- 52.1 In case the rates do not exist in the tender, the rate will be derived as per the market rates. The Tenderer shall submit analysis of rates as per Annexure, with assumption of any one item.
- 52.2 If the quantity of any item under execution is varying up to $\pm 25\%$ of the total quantity (as per the Schedule of Requirement), the contractor shall have to execute the same item at **similar rates** as applicable in the contract agreement. Variation beyond $+25\%$ upto 40% rate is to be reduced 2% of original contract rate, beyond 40% upto 50% further 2% rate to be reduced over original contract rate & beyond 50% variation registration rate to be followed so.
- 52.3 RailTel reserves the rights to vary the quantity by 25% above or below the BOQ without assigning any reason to the contractor.
- 52.4 All the work executed should be got approved by the authorized representative of RAILTEL and in case of any bad workmanship pointed out shall be either rectified or be taken away from the site if it is not rectifiable and shall be replaced without any extra cost by the Tenderer.
- 52.5 The Tenderer should indicate the breakup of the items of %age of the unit cost for material, wastage, labour, taxes, profits & overheads, etc. separately. This %age shall be the basis for evaluation of the rates of the extra items.
Measurements of the items shall be as per the IS1200 / CPWD manual / BOQ units.
- 52.6 All Government taxes, levies etc. like Works Contract – Sales Tax, TDS and any other statutory deduction if enforced by law shall be deducted from all the running bills of the Contractors.
- 52.7 All the works executed or under execution finished or semi-finished including all materials lying at site shall become the property of RAILTEL immediately on receipt of bills of the Contractors for the same.
- 52.8 The procurement of Cement, Steel, as required for completion of work shall be the responsibility of the Contractor.
- 52.9 All Fittings / Fixtures, Materials shall confirm to the relevant ISI specifications and Shall be approved by the authorised representative of RAILTEL.

SECTION – II**Chapter – 2****BID DATA SHEET (BDS)**

The section consists of provisions that are specific to various clauses of Preamble, Instruction to Tenderers and conditions of tendering (ITT), General Condition of Contract (GCC) and Special Condition of Contract (SCC) of the tender document.

Reference Clause	Description
Preamble	Name of work
Clause – 1	“Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi-Govindpur section in Ranchi Division of S.E. Railway for LHS work by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region” for 23 locations.
Section – I	
Chapter – 1	
Last Date, Time and Venue of Submission of Tender: (Preamble Clause 6)	Last Date of Submission : Venue: RailTel Corporation of India Ltd, 3rd Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata – 700 071. Date: 09.08.2018 Time: : 15:00 hours
Date, Time and Venue of Opening of Tenders – Credential bid Part – I : (Preamble Clause 7)	Venue : Same as above Date : 09.08.2018 Time: 15:30 hours.
Completion period of work: Preamble Clause 8)	45 (Forty five)days from the date of issue of Letter of Acceptance.
Authority and Address: (Preamble Clause 9)	Executive Director, Eastern Region, RailTel Corporation of India Ltd, 3 rd Floor, Chatterjee International Centre, 33A, Jawaharlal Nehru Road, Kolkata – 700 071.

Earnest Money Deposit: (ITT Clause 5 Section III Chapter-1)	Earnest Money Deposit shall be submitted for Rs. 48,817 (Rs.Fortyeight thousand & eight hundred & seventeen only) in the form of Pay Orders / Demand Drafts shall be drawn in favour of RailTel Corporation of India Limited, payable at Kolkata having validity covering 30 days beyond the validity of offer. <u>Small Scale Units registered with NSIC under single point registration scheme shall be exempted from submitting the EMD amount on providing the NSIC registration certificate.</u>
Work to be done by RailTel (if any):	Nil
Materials to be supplied by RailTel (if any): (Pre amble Clause 15)	(i) HDPE duct and accessories (ii) 24/48 Fibre armoured OFC cable The materials shall be supplied from the store of Site Engineer of respective section.
ITT	Unit Prices :
Clause 8 Section – III Chapter - 1	This is a percentage bidding system tender wherein the estimated unit prices of each item of the schedule is given including the quantity of each item of the schedule and the Total value of the schedule. The bidder is required to quote the percentage above (+)/below (-) the total estimated value spelt out in the schedule. The unit prices given in the schedule of requirement are on “all inclusive” basis including all types of taxes including GST & all other applicable TAX . The accepted unit prices of each item of the schedule will be calculated, for payment and other relevant purposes, as the estimated cost indicated in the Schedule of Requirement with the increase (+) / decrease (-) of the overall accepted percentage (%) of the schedule of requirement.
ITT	Validity of offer
Clause 9 Section – III Chapter - 1	45 days (Forty five days only) from the date of opening of tender

Warranty : (SCC Clause 29, Chapter – 3, Section-II)	All materials supplied by the contractor shall be warranted against the defects for a period of 18 months from the date of delivery or 12 months from the date of Placements of service whichever is earliest.
Security Deposit: (GCC Clause 16, Chapter – 2, Section-III,)	Security deposit should be 5% of contract value.
Contract Performance Guarantee: (SCC-Clause 3, Chapter –1, Section-II & Section 1 Chapter 1 item 11)	Contract Performance Guarantee should be 5% of Contract value.
Minimum Qualifying Criteria :	Technical : 1. Performed OFC route maintenance for a continuous stretch of more than 150 KMs (One hundred fifty Kilometres) for a minimum period of 06 (Six) months in the past three financial years & current year before the date of opening of tender. Or 2. Should have executed trenching , laying, splicing and termination of OFC for a continuous stretch of 50 KM (Fifty KM) in a single contract or a combined length of minimum 200 KM (Two hundred Kilometres) in the past three financial years & current year before the date of opening of tender .
Annual Turnover	Financial: The Tenderer should have received during last three years total contract amount of minimum of 150% of the advertised Tender value of respective section.

SECTION – II**Chapter – 3****PRICE BID****Railway : South Eastern Railway****Section : Ranchi-Muri ; Ranchi- Lohardaga ; Ranchi- Govindapur .****Name of the work :**

Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi Govindpur section in Ranchi Division of S.E. Railway for LHS work by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region”:

Schedule ‘A’

Description of Work	Estimated cost as per Schedule of Works	Rate quoted in percentage [Above (+)/ Below(-) /At par] the Estimated cost at Col. No.3	
		In Figures	In Words
(1)	(2)	(3)	(4)
Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi Govindpur section in Ranchi Division of S.E. Railway for LHS work by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work (Inclusive GST & all TAX.	Rs. 24,40,844/-		

GST & all type of taxes are included. **No TAXs will be paid extra even in case of change of any TAXs.**

N O T E:

- i) The price bid of the tender shall be on a percentage bidding system in the form(s) enclosed above. The total schedule of works is given at Section – I, Chapter – 2

and in price bid where all elements of work, their quantity, unit price (excluding tax components) and total value for each item of work is clearly stipulated.

- a. The tenderer is expected to quote the percentage above (+) / Below (-) /At par the total price indicated in the schedule of requirement.
- b. In the event of any discrepancy between the rates in figures and in words, the quote shall be considered taking into account the one written in words for evaluation purpose.
- c. Bidder should also provide separate breakup of cost/rate against each item of work, i.e. supply, installation and commissioning with its tax component.

Signature of the tenderer
(With Official Seal)

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RAILTEL

SECTION - III

CHAPTER-1

INSTRUCTIONS TO TENDERERS AND CONDITIONS OF TENDERING

INDEX

1. General Instructions
2. Interpretations
3. Local Conditions
4. Compliance to Tender Conditions, Specifications & Drawings
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9. Validity of Offer
10. Rates During Negotiations
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12. Period of Completion and Time Progress Graph
13. Opening of Tender
14. Non-transferability and Non-refund ability
15. Errors, Omissions and Discrepancies
16. Wrong Information by Tenderers
17. Consortium Bids
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SECTION - III

CHAPTER-1

INSTRUCTIONS TO TENDERERS AND CONDITIONS OF TENDERING

1. GENERAL INSTRUCTIONS

- 1.1 Tenders are invited by M/s. RailTel Corporation of India Limited, Kolkata 700 071 from established and reliable contractors for the work of:

“Diversion of OFC between Mughalsarai Jn.-Mughalsarai Yard in MGS Division of E.C. Rly by Trenching, Laying of HDPE Duct and OFC cable , Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Ltd ,Eastern Region”

- 1.2 The General Conditions of Contract, Special Conditions of Contract, Instructions to Tenderers and Conditions of Tendering, Technical Specifications & Supplement, Preamble including Schedule of Requirements and all Annexure & Forms etc. shall, hereafter, be collectively referred to as the "TenderPapers".

2. INTERPRETATIONS

The following terms wherever occurring in the tender papers and wherever used throughout the execution of the work, shall, unless excluded by or repugnant to the context, have the meaning attributed thereto as follows:

"**CONTRACT**" means the Contract resulting from the acceptance by the Purchaser of this Tender whether in whole or in part.

"**CONTRACTOR**" means the successful Tenderer i.e., the Tenderer whose Tender has been accepted either in whole or in part.

"**CONTRACTOR'S REPRESENTATIVE**" shall mean a person in supervisory capacity who shall be so declared by the Contractor and who shall be authorized under a duly executed power of attorney to receive materials issued by the Purchaser to the Contractor for the works. He shall be responsible for proper execution of works at each or all places and shall take orders from Purchaser's Engineers and carry out the same.

"**ENGINEER / ENGINEER-IN-CHARGE**" shall mean an executive of RailTel in charge of works and shall include the superior executives of RailTel. He is responsible for ensuring that all field works covered by the contract are carried out in accordance with approved designs, drawings & specifications and conditions of contract as agreed to.

"**ENGINEER'S REPRESENTATIVE**" shall mean the supervisor of RailTel in direct charge of the works.

"EQUIPMENT" means all or any equipment considered necessary by the Purchaser's Engineers for satisfactory operation, as a whole, of the installations/executions.

"MONTH" means any consecutive period of thirty days.

"MATERIALS" means all equipments, components, fittings and other materials including raw materials required to complete the work.

"PURCHASER" means M/S RailTel Corporation of India Limited, Eastern Region, 3rd Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata – 700 071.

"PURCHASER'S ENGINEER" means the Regional General Manager of RailTel or successor who will decide all matters relating to design, manufacture, installation and commissioning of the plant and equipment at site.

"SUB-CONTRACTOR" means an individual or a firm of Contractor or a Company registered under Indian Company Act or an approved supplier of materials to whom the Contractor sublets portions of the contract.

"CONSIGNEE" means the person specified in the Acceptance of Tender to whom Stores are to be delivered at the destination.

"INSPECTING OFFICER" means the person, or organization specified in the contract for the purpose of inspection of stores of work under the contract and includes his/their authorized representative.

"RailTel" means M/S RailTel Corporation of India Limited, Eastern Region, 3rd Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata – 700 071.

"SITE" means the areas to be taken up by the tenderer for execution of works, together with any other area or areas as shall be determined by the Purchaser's Engineer, which may be placed at the disposal of the Contractor for the purpose of the contract and also such area or areas used for store yards, works yards or workshop in proximity of the works as the Purchaser's Engineer may have authorized as an extension of the site, irrespective of the terms and conditions under which they are occupied by the Contractor.

"BLOCK SECTION" means the distance along the railway track between two consecutive Railway stations.

"TENDERER" means and includes any firm of engineers or Contractors or any company or body, corporate or otherwise, who submit the Tender which has been invited.

"WORK OR WORKS" means all or any of the items of the work for which the Tenderer/Contractor has Tendered/contracted according to the specifications, drawings and Annexure hereto annexed or to be implied there from, or incidental

thereto or to be hereafter specified or required in such explanatory instructions and drawings, being in conformity with the original specifications, drawings, Annexure and schedules and also such instructions and drawings additional to the aforementioned as may from time to time be issued by the Purchaser's Engineer during the progress of the contracted work.

"**WRITING**" includes all matters written, typewritten or printed either in whole or in part.

3. LOCAL CONDITIONS

- 3.1 It will be imperative on each tenderer to fully acquaint himself with all the local conditions and factors which would have any effect on the performance of the contract and cost of the stores. The purchaser shall not entertain any request for clarifications from the tenderer regarding such local conditions. No request for the change of price, or time schedule of delivery of stores shall be entertained after the offer is accepted by the purchase on account of any local condition or factor.
- 3.2 The intending tenderer is advised to study the tender papers carefully. Any submission of a quotation/offer by the tenderer shall be deemed to have been done after a careful study and examination of these documents with full understanding of the implications thereof. These conditions and specifications shall be deemed to have been accepted unless otherwise specifically commented upon by the Tenderer in his quotation/offer. Failure to adhere to any one or all these instructions may render his offer liable to be ignored without any reference.
- 3.3 Should a tenderer find discrepancies in, or omission from, the drawings or any of the Tender papers or he has any doubt to their meaning, he should at once notify the RailTel who may send a written clarification to all Tenderers.

4. COMPLIANCE TO TENDER CONDITIONS, SPECIFICATIONS & DRAWINGS

- 4.1 The tenderer shall indicate paragraph by paragraph for each section of the tender document that either his tender complies in every respect with the requirements of each clause and sub clause or if not, precisely how they differ from the requirements of the tender. In the later case, the tenderer shall enclose a separate statement as per Proforma given, indicating only the deviations for any clause or sub-clause of General Conditions of Contract, Special Conditions of Contract, Instructions to Tenderers and Conditions of Tendering, Technical Specifications, Preamble, Bid Data Sheets (BDS) etc. which the proposes with justifications for deviations proposed. The purchaser reserves the right to accept or reject these deviations and his decision thereon shall be final .
- 4.2 The equipment/materials offered shall be in accordance with the drawings and specifications. Details of variation from the drawings and specifications, if any, should be clearly indicated separately for each annexure with justification for deviations proposed. The Purchaser reserves the right to accept or reject these deviations and his decision thereon shall be final.

- 4.3 Firms should give details of similar works carried out giving details to include name of the project and contract no., date of award, length of the section, value of the contract, the original execution period and the actual execution time taken. Certificate of satisfactory completion of work from the competent authority should also be enclosed (Form Nos. 2 and 13).

5. EARNEST MONEY/BID GUARANTEE

- 5.1 The tenderer shall furnish Earnest Money Deposit (EMD) of an amount as is indicated in the Bid Data Sheet (BDS) enclosed at Section – II, Chapter – 5 of this tender document. Tenders not accompanied by earnest money shall be summarily rejected.

- 5.2 The Tenderers shall hold the offer open till such date as specified in Para 9 of this chapter. It being understood that the tender documents have been sold/issued to the tenderer and the tenderer has been permitted to tender in consideration of the stipulation on his part that after submitting his tender he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to RailTel. If the tenderer fails to observe or comply with the foregoing stipulation, the aforesaid amount deposited as Earnest Money shall be liable to be forfeited by the RailTel.

- 5.3 The Earnest Money receipt shall be incorporated along with the tender document. The Earnest Money should be furnished in any of the following forms:

- (a) Deposit Receipt, Pay Orders or Demand Drafts issued from any of the Nationalized Bank.
- (b) Deposit receipt of the Scheduled Banks as defined in RBI Act 1934.

- 5.4 Pay Orders or Demand Drafts should be drawn in favour of RailTel Corporation of India Limited payable at Kolkata. **These instruments should be valid at least for the period covering ninety days beyond the date of opening of bids.**

- 5.5 The bid guarantee / earnest money may be forfeited:

- (i) If a tenderer withdraws its tender during the period of tenders validity specified in clause 9 of Instructions to Tenderers and Conditions of Tendering.
- (ii) In the case of successful tenderer, if the tenderer fails to:
 - (a) Sign the contract in accordance with clause - 2 of Special Conditions of Contract.
 - (b) To furnish performance guarantee in accordance with clause 3.1 of Special Conditions of Contract.

- 5.6 The earnest money of unsuccessful tenderer will be returned within reasonable time to the unsuccessful tenderer but the RailTel shall not be responsible for any loss or depreciation that may happen to the security for the due performance of the above stipulation to keep offer open for the period specified in the tender

documents or to the Earnest Money while in their possession nor be liable to pay interest thereon.

- 5.7 If the tender is accepted, the amount of Earnest Money will be held as security deposit for due and faithful fulfilment of contract. The Earnest Money of successful tenderer will be returned after the Contract Performance Guarantee (Security Deposit) as required under clause 3 of Special Conditions of Contract is furnished and formal contract duly signed is received by the purchaser.

6. SUBMISSION OF OFFERS

- 6.1 All offers in the prescribed forms should be submitted before the time and date fixed for the receipt of the offers. Offers received after the stipulated time and date will be summarily rejected.
- 6.2 In case the date of opening happens to be a holiday, the tender will be received and opened at the same time on the next working day.
- 6.3 All offers shall be either type written or written neatly in indelible ink in English. Each page of the offer must be numbered consecutively. A reference to total number of pages comprising the offer must be made at the top right hand corner of the top page. The supporting documents should be submitted either in original or duly signed by the authorized signatory of the tenderer. The original documents shall be produced for verification when called for.
- 6.4 All copies of the tender papers shall be signed in ink by the tenderer, on each page including closing page in token of his having studied the tender papers carefully.
- 6.5 In case tenderer considers necessary to include new item of work not included in schedule of requirement but considered necessary for achieving the end objective he may do so by submitting a new schedule of requirement marked as “B” quoting the rates and quantities along with the detailed justification.

6.6 RATES IN FIGURES & WORDS:-

- (i) The price bid of the tender shall be on a percentage bidding system in the form(s) enclosed at Section-II, Chapter – 6. The total schedule of requirement is given at Section – I, Chapter –2 where all elements of work, their quantity, unit price and total value for each item of work is clearly stipulated.
- (ii) The tenderer is expected to quote the percentage Above (+) / Below (-) / at par the total price excluding taxes indicated in the schedule of requirement for the section in which they are participating. For the purpose of submission of price bid, the format is enclosed in Section – II, Chapter – 6.
- (iii) In the event of any discrepancy between the rates in figures and in words, the quote shall be considered taking into account the one written in words

for evaluation purpose.

- 6.7 ATTESTATION OF ALTERATION:** No scribbling is permissible in the tender documents. Tender containing erasures and alterations in the tender documents are liable to be rejected. Any correction made by the tenderer/Tenderers in his/their entries must be signed (not initialled) by him/them.
- 6.8** The tenderer shall submit his tender in one sealed cover containing one envelope of bid document one original copy. The original copy of the tender shall be complete in all respects. The copies should be marked “original” . The original tender paper purchased from this office or down loaded from the RailTel web site shall be returned duly signed on each page along with the original offer.
- 6.9** The tender shall be submitted sealed in envelope. The envelope should bear the Tender No. its description and date of closing/opening.
- (a)** The offer of the bidder shall consist, but not limited to, the following:
- (i) Offer letter complete. (Form No.1)
 - (ii) Earnest Money in prescribed form (Clause 5)
 - (iii) Copy of PAN Card, solvency certificate, copy of the audited balance sheet of the last three years and WCT registration/undertaking etc. (BDS, Section –II, Chapter -5).
 - (iv) Constitution of the Firm and Power of Attorney (Clause 7)
 - (v) Clause-wise compliance to tender conditions & statement of deviations (Clause 4) (Form No.5).
 - (vi) Tenderer's credentials and willingness of original manufacturer as per Qualifying Criteria. (Clause 18.4.2).
 - (vii) Similar works executed or under execution. Form No.13 (Clause 18.1.3 & Clause19)
 - (viii) User's Certificate Form No. 2 (Clause 18.1.4)
 - (ix) System/Work performance guarantee(Clouse 20).
 - (x) Complete technical data and particulars of the equipment offered, as specified in the Tender papers together with descriptive literature, leaflets, Drawings, if any, complete with list etc. (Clouse 18.4).
 - (xi) Name of manufacturers, place of manufacture and the certificate for proven design and performance (Clause 18.4)
 - (xii) Technical proposal of tenderer in conformity with system design or alternative proposal of the tenderer, if any.

- (xiii) Any other information desired to be submitted by the tenderer.
- (xiv) The tender document signed on all pages with stamp of the tenderer.
- (xv) The present work load of the telecom contracts in hand as per the format (Form No. 9)
- (xvi) Price Bid

7. CONSTITUTION OF FIRM AND POWER OF ATTORNEY

7.1 Any individual(s) signing the tender or other documents connected therewith should specify whether he is signing:-

- (a) As sole proprietor of the concern or as attorney of the sole proprietor;
- (b) As a partner or partners of the firm;
- (c) As a Director, Manager or Secretary in the case of Limited Company duly authorized by a resolution passed by the Board of Directors or in pursuance of the authority conferred by Memorandum of Association.

7.2 In the case of a firm not registered under the Indian Partnership Act, all the partners or the attorney duly authorized by all of them should sign the tender and all other connected documents. The original Power of Attorney or other documents empowering the individual or individuals to sign should be furnished to the Purchaser for verification, if required.

7.3 The RailTel will not be bound by Power of Attorney granted by the tenderer or by the changes in the composition of the firm made subsequent to the execution of the contract agreement.

7.4 In case where the Power of Attorney partnership deed has not been executed in English, the true and authenticated copies of the translation of the same by Advocate, authorized translators of Courts and Licensed Petition Writers should be supplied by the Contractor(s) while tendering for the work.

7.5 The duly notarized Power of Attorney, Partnership Deed, Memorandum of Joint Venture as the case may be in original or duly signed.

7.6 Participation of Joint Venture (JV) Firms In Works Tender:

- a) Separate identity/name shall be given to the Joint Venture Firm.
- b) Number of members in a JV Firm shall not be more than three.
- c) A member of JV Firm shall not be permitted to participate either in individual capacity or as a member of another JV Firm in the same tender.
- d) The tender form shall be purchased and submitted only in the name of the JV Firm and not in the name of any constituent member.
- e) Normally Earnest Money Deposit (EMD) shall be submitted only in the name of

the JV Firm and not in the name of constituent member. However, in exceptional cases, EMD in the name of Lead Member can be accepted subject to submission of specific request letter from Lead Member stating the reasons for not submitting EMD in the name of JV Firm and giving written confirmation from JV members to the effect that EMD submitted by the Lead Member may be deemed as EMD submitted by JV Firm.

- f) One of the members of the JV Firm shall be its Lead Member who shall have a majority (at least 51%) share of interest in the JV Firm and also, must have satisfactorily completed the work in accordance with the clause 3.16.2.1 (chapter 3) of the tender. The other members shall have a share of not less than 20% each. In case of JV Firm with foreign member(s), the Lead Member has to be an Indian Firm with a minimum share of 51%.
- g) A copy of Memorandum of Understanding (MoU) executed by the JV members shall be submitted by the JV Firm along with the tender. The complete details of the JV Firm, their share and responsibility in JV Firm etc. particularly with reference to financial, technical and other obligations shall be furnished in the MoU. (MoU format at Appendix-I).
- h) Once the tender is submitted, the MoU shall not be modified/ altered/ terminated during the validity of the tender. In case the tenderer fails to observe/comply with this stipulation, the full Earnest Money Deposit (EMD) shall be liable to be forfeited.
- i) Approval for change of constitution of JV Firm shall be at the sole discretion of the RailTel. The constitution of the JV Firm shall not be allowed to be modified after submission of the tender bid by the JV Firm, except when modification becomes inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. However, the Lead Member shall continue to be the Lead Member of the JV Firm. Failure to observe this requirement would render the offer invalid.
- j) Similarly, after the contract is awarded, the constitution of JV Firm shall not be allowed to be altered during the currency of contract except when modification become inevitable due to succession laws etc. and in any case the minimum eligibility criteria should not get vitiated. Failure to observe this stipulation shall be deemed to be breach of contract with all consequential penal action as per contract conditions.
- k) On award of contract to a JV Firm, a single Performance Guarantee shall be submitted by the JV Firm as per tender conditions.
- l) All the Guarantees like Performance Guarantee, Bank Guarantee for Mobilization Advance, Machinery Advance etc. shall be accepted only in the name of the JV Firm and no splitting of guarantees amongst the members of the JV Firm shall be permitted.
- m) On issue of LOA (Letter of Acceptance), an agreement among the members of the JV Firm (to whom the work has been awarded) shall be executed and got registered before the Registrar of the Companies under Companies Act or before the Registrar/Sub-Registrar under the Registration Act, 1908. This JV Agreement shall be submitted by the JV Firm to the RailTel before signing the contract agreement for the work. In case the tenderer fails to observe /comply with this stipulation, the full Earnest Money Deposit (EMD) shall be forfeited and other penal actions due shall be taken against partners of the JV and the JV. This Joint Venture Agreement shall have, inter-alia, following Clauses:
 - I. Joint And Several Liability- Members of the JV Firm to which the contract is awarded, shall be

jointly and severally liable to the (RailTel) for execution of the project in accordance with General and Special Conditions of Contract. The JV members shall also be liable jointly and severally for the loss, damages caused to the RailTel during the course of execution of the contract or due to non-execution of the contract or part thereof.

II. Duration of the Joint Venture Agreement - It shall be valid during the entire currency of the contract including the period of extension, if any and the maintenance period after the work is completed.

III. Governing Laws- The Joint Venture Agreement shall in all respect be governed by and interpreted in accordance with Indian Laws.

7.7 Authorized Member- Joint Venture members shall authorize one of the members on behalf of Joint Venture Firm to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/correspondences with respect to the contract would be sent only to this authorized member of the JV Firm.

7.8 No member of the Joint Venture Firm shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other members and that of the RailTel in respect of the said tender/contract.

7.9. Documents to be enclosed by the JV Firm along with the tender:

7.9. A. In case one or more of the members of the JV Firm is/are partnership firm(s), following documents shall be submitted:

- (a) Notary certified copy of the Partnership Deed,
- (b) Consent of all the partners to enter into the Joint Venture Agreement on a stamp paper of appropriate value (in original).
- (c) Power of Attorney (duly registered as per prevailing law) in favour of one of the partners of the partnership firm to sign the JV Agreement on behalf of the partnership firm and create liability against the firm.

7.9. B. In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed:

Affidavit on Stamp paper of appropriate value declaring that his/her concern is a Proprietary Concern and he/she is sole proprietor of the Concern OR he/she is in position of "KARTA" of Hindu Undivided Family (HUF) and he/she has the authority, power and consent given by other partners to act on behalf of HUF.

a). In case one or more members is/are limited companies, the following documents shall be submitted:

- (b) Notary certified copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement, authorizing MD or one of the Directors or Managers of the Company to sign on behalf of the Company and enter into liability against the company and/or do any other act on behalf of the company.
- (c) Copy of Memorandum and Articles of Association of the Company.

(d) Power of Attorney (duly registered as per prevailing law) by the company authorizing the person to do/act mentioned in the Para (a) above.

7.10. All the Members of JV shall certify that they are not black listed or debarred by RailTel, Railways or any other Ministry/Department/PSU (Public Sector Undertaking) of the Govt. of

India/ State Govt. from participation in tenders/contract on the date of opening of bids either in their individual capacity or as a member of the JV Firm in which they were/are members.

7.11. Credentials & Qualifying Criteria: Technical and financial eligibility of the JV Firm shall be adjudged based on satisfactory fulfillment of the following criteria:

7.12. Technical Eligibility Criteria:

Either the JV Firm or Lead Member of the JV Firm must comply clause 3.16.2.1 of Chapter-3

Note: Value of a completed work done by a member in an earlier JV Firm shall be reckoned only to the extent of the concerned member's share in that JV Firm for the purpose of satisfying his/her compliance to the above mentioned technical eligibility criteria in the tender under consideration.

7.13. Financial Eligibility Criteria: The contractual payments received by the JV Firm or the arithmetic sum of contractual payments received by all the members of JV Firm in previous three financial years and the current financial year up to the date of opening of tender shall be at least 150% of the estimated value of the work as mentioned in the tender.

Note: Contractual payment received by a member in an earlier JV Firm shall be reckoned only to the extent of the concerned member's share in that JV Firm for the purpose of satisfying compliance of the above mentioned financial eligibility criteria in tender under consideration.



Appendix-1

Memorandum of Understanding (MoU) for Joint Venture Participation (To be executed on non-judicial stamp paper of appropriate value in accordance with relevant stamp Act. The stamp paper to be in the name of the company who is issuing the Power of Attorney).

JOINT VENTURE PARTICIPATION BETWEEN

M/s.....having its registered office at(hereafter referred to as) acting as the Lead Partner of the first part and M/s.....having its registered office at (hereafter referred to as „.....“) in the capacity of a Joint Partner of the other part. (If more than two partners include the details accordingly). Now all the parties i.e. and will be known as M/s. (JV).

The expressions of.....andshall whatever the context admits, mean and include their respective legal representatives, successors-in-interest and assigns and shall collectively be referred to as “the Parties” and individually as “the Party”

Whereas; RailTel Corporation of India Ltd. (hereinafter referred to as “ RailTel”) has invited bids for(insert name of work)

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

a. The „Parties“ have studied the documents and have agreed to submit their bid as Joint Venture (JV).

b. M/s.....shall be the lead member of the JV for all intents and purpose and shall represent the Joint Venture in its dealing with the RailTel. For the purpose of submission of Tender proposals, the parties agree to nominate M/s.....as the leader duly authorized to sign and submit all documents and subsequent clarification, if any, to the RailTel.

c. The „Parties“ have resolved that the distribution of share and responsibilities is as under:

- | | |
|--|---|
| i) Leading Partner share.....%; Responsibilities | i. |
| ii. | iii. (Technical, Financial obligations) |
| ii) Other Joint Venture Partner's share-----% | |
| Name..... Responsibilities | |
| i. | ii. |
| iii. (Technical, Financial obligations) | |
| iii) Other Joint Venture Partner's share-----% | |
| Name..... Responsibilities | |
| i. | ii. |
| iii. (Technical, Financial obligations) (Technical, Financial obligations) | |

7.14. JOINT AND SEVERAL RESPONSIBILITY

The Parties undertake that they shall be jointly and severally liable to the RailTel for execution of the Project in accordance with General and Special Conditions of Contract. The JV members shall also be liable jointly and severally for the loss, damages caused to the RailTel during the course of execution of the contract or due to non-execution of the contract or part thereof.

7.15 ASSIGNMENT AND THIRD PARTIES

No member of the Joint Venture firm shall have the right to assign or transfer the interest, right or liability in the contract without the written consent of the other members and that of the RailTel in respect of the said tender/contract.

7.16. EXECUTIVE AUTHORITY

Joint Venture members shall authorize one of the members on behalf of the Joint Venture Firm to deal with the tender, sign the agreement or enter into contract in respect of the said tender, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/correspondences with respect to the contract would be sent only to this authorized member of the JV firm. Any payment shall be released to the Joint Venture and not to the one member and accordingly Joint Venture shall have PAN of the Joint Venture firm.

7.17 VALIDITY

This MoU shall remain in force till the occurrence of the earliest of the following, unless by mutual consent, the parties agree in writing to extend the validity for a further period. a. Tender submitted by the Joint Venture is declared unsuccessful or b. Cancellation/shelving of the project by the RailTel for any reasons prior to award of work. In case, the Tender submitted by the Joint Venture is declared successful; the validity of this MoU shall be extended till the JV agreement is signed and got ratified.

7.18. This MoU is drawn in.....number of copies with equal legal strength and status. One copy is held by M/s..... and the other by M/s. &..... M/s.....and a copy submitted with the proposal.

7.19 This MoU shall in all respects be governed by and interpreted in accordance with Indian Laws.

7.20 NOTICES

Notices shall be given in writing by Fax confirmed by registered mail or commercial courier to the following Fax numbers and addresses.

7.21 JV Agreement

We are aware, that after issue of LOA by RailTel, an agreement among the members of the JV firm has to be executed and got registered before the Registrar/Sub-Registrar under the Registration act. This agreement shall be submitted by the JV firm to RailTel before signing the contract agreement for the work. In case the JV partners fail to observe/comply with stipulations, the Earnest Money Deposit, deposited with the RailTel shall be forfeited and other penal actions due shall be taken against partners of the JV by the RailTel.

7.21 We shall furnish along with the tender requisite documents as mentioned under Para 15.1, 15.2, 15.3 (as the case may be) of the guidelines of RailTel for participation of JV firms in works tender.

Declaration

It is to certify that we have not been black listed or debarred by the RailTel, Railways or any other ministry/departments of the Govt. of India/State Govt. from participation intenders/contract in the past either in our individual capacity or the JV firm or partnership firm in which we were members/partners.

Lead Partner

(Name and Address)

Other Partner (s) -----

(Name and Address)

Name and Address of the J.V. firm

IN WITNESS WHEREOF THE PARTIES, have executed this MoU the day, month and year
First

Before written

M/s..... (Seal)

M/s..... (Seal)

Witness:

1..... (Name and Address)

2..... (Name and Address)

8. UNITPRICES

This tender consists of a percentage bidding system. The estimated prices of each and every item of the schedule are indicated in the Schedule of Requirements. The tenderer is expected to quote the %age above (+) or below (-) the total estimated price indicated in the schedule. For the purpose of releasing payment item-wise, the total %age above/below finalized for the entire schedule will form the basis for calculation of the unit prices where the estimated prices of the individual items of the schedule will be marked up/below the final overall %age accepted.

The percentage above/below finalized for the entire schedule shall be firm and on all-inclusive basis and hence the contractor is advised to quote after taking all the relevant factors into consideration. Subsequent requests for variation of prices will not be entertained. The prices indicated in the schedule are in Indian Rupees for the units under metric system. Reference may be made to Para 38 of Special Conditions of Contract (Section II, Chapter 3). The price excludes all taxes and duties such as excise duties, sales tax, works contract tax, Octroi etc. as payable under the law of the land and also includes freight and incidentals and the purchaser shall not accept any liability for the same after award and acceptance of contract. Service Tax , VAT also inclusive .

9. VALIDITY OF OFFER

The tenderer shall keep the offer open for a minimum period of 45 (Forty five days), from the date of opening of the tender. Within that period the tenderer can not withdraw his offer subject to the period being extended further, if required, by mutual agreement from time to time.

Any contravention of the above condition will make the tenderer liable for forfeiture of his Earnest Money.

10. RATES DURING NEGOTIATION

The tenderer/s shall not increase his/their quoted rates in case the RailTel Administration negotiates for reduction of rates. Such negotiations shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted will be binding on the tenderer/s.

11. INCOME TAX

The Tenderer is required to enclose along with the tender a Photostat copy of the PAN Card duly signed. Tenderer will however submit the original PAN whenever asked by purchaser for verification.

12. PERIOD OF COMPLETION AND TIME PROGRESS GRAPH

The works/work are/is to be completed within a period as mentioned in the Bid Data Sheet from the date of issue of Letter of Acceptance of the tender. The tenderer shall enclose a proposed time progress graph for each activity of work as contain in schedule of requirement to show as to how the intent to complete the

works within the time schedule laid down in the contract. The tenderer may please note that payment of works shall be released on completion of trenching, laying of OFC and 6-Quad/PIJF and backfilling of a complete block section on a continuous basis from either end of the section where work is awarded.

13. OPENING OF TENDER:

Tenders will be opened at the date and time indicated in the Bid Data Sheet or any subsequent corrigendum issued in presence of such Tenderers/ Representatives who choose to be present.

- 13.1 Late Tender: Tenders received after the due date and time will be treated as late tenders and will be summarily rejected.

14. NON-TRANSFERABILITY AND NON-REFUNDABILITY

The tender documents are not transferable. The cost of tender paper is not refundable.

15. ERRORS, OMISSIONS & DISCREPANCIES

The Contractor(s) shall not take any advantage of any mis-interpretation of the conditions due to typing or any other error and if in doubt, shall bring it to the notice of the Engineer without delay. In case of any contradiction only the printed rules, and books should be followed and no claim for the mis- interpretation shall be entertained.

16. WRONG INFORMATION BY TENDERER

If the tenderer/s deliberately gives/give wrong information in his/their tender which creates/create circumstances for the acceptance of his/their tender the RailTel reserves the right to reject such tender at any stage.

17. CONSORTIUM BIDS

Deleted

18. QUALIFYING CRITERIA:

18.1 General:

Qualifying criteria under this para lays down minimum acceptable qualifications in various areas to ensure that qualified bidder has necessary experience technical expertise, equipments and financial and human resources to successfully complete the project.

18.1.2 ELIGIBILITY CRITERIA & TECHNICAL REQUIREMENT FOR QUOTING THIS TENDER:

The work covered by this tender is extremely skilled and technical in nature

and only firms having sufficiently skilled and experienced staff with them and who have carried out tight targeted Telecom works shall quote against this Tender.

18.1.3 The Tenderer shall necessarily satisfy the eligibility conditions, Technical Requirement and Financial requirement are given in the Bid Data Sheets.
Section-II, Chapter-IV

18.1.4 The tenderer shall submit along with the tender document, documents in support of his/their claim to fulfill the eligibility criteria as mentioned in the tender document. Each page of the copy of documents/certificates in support of credentials, submitted by the tenderer, shall be self-attested/digitally signed by the tenderer or authorized representative of the tendering firm Self-attestation shall include signature, stamp and date (on each page). Only those documents which are declared explicitly by the tenderer as “documents supporting the claim of qualifying the laid down eligibility criteria”, will be considered for evaluating his/their tender.

18.1.5 “The tenderers shall submit a notarized affidavit on a non-judicial stamp paper stating that they are not liable to the disqualified and all their statements/documents submitted alongwith bid are true and factual. Standard format of the affidavit to be submitted by the bidder is enclosed as Annexure-A. Non submission of an affidavit by the bidder shall result in summary rejection of his/their bid. And it shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self attested by which they /he is Qualifying the Qualifying Criteria mentioned in the Tender Document. It will not be obligatory on the part of the RailTel to scrutinize beyond the submitted document of tenderer as far as his qualification for the tender is concerned”.

With the submission of the affidavit as mentioned above, the practice of verification of tender's documents by the RailTel may be dispensed with. Following clause may also be added to the instruction to Bidders.

- a) The RailTel reserves the right to verify all statements, information and documents submitted by bidder in his tender offer, and the bidder shall, when so required by the RailTel, make available all such information, evidence and documents as may be necessary for such verification, by the RailTel shall not relieve the bidder of its obligations or liabilities here under nor will it affect any rights of the RailTel thereunder.
- b) In case of any wrong information submitted by the tenderer, the contract shall be terminated, Earnest Money Deport (EMD), Performance Guarantee (PG), and Security Deposit (SD) of contract forfeited and agency barred for doing business on entire RailTel for 5 (five) years.

Annexure-A

FORMAT FOR AFFIDAVIT TO BE UPLOADED BY TENDERER ALONGWITH THE TENDER DOCUMENTS

(To be executed in presence of Public notary on non-judicial stamp paper of the value of Rs. 100/-. The paper has to be in the name of tenderer)**

I.....(Name and designation)** appointed as the attorney/authorized signatory of the tenderer (including its constituents),

M/s(hereinafter called the tenderer) for the purpose of the Tender documents for the work ofas per the tender No..... of (RailTel Corporation of India Limited/Eastern Region), do hereby solemnly affirm state on the behalf of the tenderer including its constituents as under:

1. I/We the tenderer (s) am/are signing this document after carefully reading the contents.
2. I/we the tendered (s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3. I/we hereby declare that i/we have downloaded the tender documents from RailTel website www.railtelindia.com. I/we have verified the content of the document from the website and there is no addition no deletion or no alternation to be content of the tender documents. In case of any discrepancy noticed at any stage i.e. evaluation of Tenders, execution of work or final payment of the contract, the master copy available with the RailTel administration shall be final and binding upon me/us.
4. I/we declare and clarify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5. **I/we also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.**
6. **I/we declare that information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.**
7. I/we undersigned that if the certificates regarding eligibility criteria submitted by us are found to be forged/false or incorrect at any time during the process for evaluation of tenders, it shall lead to forfeiture of the tender EMD besides banning of business for five years on entire RailTel. Further, i/we (Insert name of the tenderer)**
_____ and all my/our constituents understand that my/our constituents understand that my/our offer shall be summarily rejected.

8. I/we also understand that if the certificates submitted by us are found to be false/forged or incorrect at any time after the award of the contract, It will lead to termination of the contract, alongwith forfeiture of EMD/SD and performance guaranty besides any other action provided in the contract including banning of business for five years on entire RailTel.

DEPONENT
SEAL AND
SIGNATURE
OF THE TENDERER

VERIFICATION

I/we above named tender do hereby solemnly affirm and verify that the contents of my/our above affidavit are true and correct. Nothing has been concealed and no part of it is false.

DEPONENT

SEAL AND
SIGNATURE
OF THE TENDERER

Place:

Dated:

** The details as appropriate, are to be filled in suitably by tenderer. Attestation before Magistrate/Notary Public.

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RAILTEL

18.2 **Technical Requirement:** Given in the Bid date Sheets Section-II,

18.3 **Financial Requirement:** Given in the Bid date Sheets Section-II,

18.4 Equipment/Material:

18.4.1 The tenderer shall clearly identify the sources from which the equipment/material to be supplied under this tender will be obtained. The tenderer should also enclose an undertaking from the sources, from where he is procuring the material, to the effect that the material shall be supplied in time so as to enable the tenderer to complete the work within the completion period.

18.4.2 In case the tenderer is not the original equipment manufacturer, the equipment of the original equipment manufacturer (from whom the tenderer is proposing to procure the equipments for this tender) should have been working satisfactorily for a period of minimum one year before the date of opening of this tender. Certificate from the actual user of the equipment about its satisfactory performance shall be enclosed with the tender.

18.4.3 The equipment/materials offered shall be covered by the performance guarantee of the original manufacturer.

18.4.4 The tenderer shall submit a declaration from the original equipment manufacturers regarding the service support available within the country and within reasonable distance from the concerned sections.

18.4.5 The purchaser or his representative may at their discretion undertake type tests to determine the compliance to the specification and accord type approval before the equipment are manufactured, inspected and supplied.

18.5 Engineering Organization

18.5.1 The Tenderers shall depute minimum one graduate Engineer and two experienced supervisors (Diploma Holders) in the relevant field for executing the work. The qualification and experience of these proposed personnel should be enclosed along with the bid.

18.6 Construction and Maintenance Machinery

The tenderer should furnish the details of the machinery and plants to be deployed, in case the tenderer plans to use mechanized trenching.

18.7 WORKLOAD

The tenderer submit the present workload of the telecom. Contracts in hand as per the format. The performance of the tenderer with regard to satisfactory execution of more than one contract simultaneously in the past shall be taken into account.

19. MEANING OF SIMILAR WORKS

19.1 Works similar to the scope of work as contained in this tender shall mean the work as indicated in Tender Notice & Bid Data Sheet, executed in India or abroad as per the scope of the work/specifications given in the Tender document

executed for Govt./PSU's /reputed Private organization dealing with Telecom/ Signalling/ Electrical utilities only. Such experience in case of parent organization abroad shall be considered adequate if the tenderer is their direct subsidiary in India.

20. SYSTEM PERFORMANCE GUARANTEE

20.1 The tenderer shall give unqualified and unconditional guarantee that when the equipment / material supplied or work done by him is installed and commissioned at site, it shall achieve the desired objective and that in the event of performance of the system when installed not complying with the end objective or with the specifications, he shall provide further inputs to enable the RailTel to realize the end objectives with full compliance of the specifications contained in these documents. No additional payment will be made to the contractor for supply of any additional goods and services required in this regard.

20.2 This certificate in the Proforma given in Form No. 7, shall accompany the offer. Absence of this certificate, which will form part of the agreement, shall disqualify the tenderer automatically.

21. EVALUATION OF OFFER

The authority for the acceptance of the tender rests with the Purchaser. The tenders received will be evaluated by the Purchaser to ascertain the best acceptable tender in the interest of the Purchaser.

However, the purchaser shall not be bound to accept the lowest or any tender or to assign any reason for non-acceptance or rejection of a tender. The purchaser reserves the right to accept any tender in respect of the whole or any portion of the work specified in the tender paper or to sub-divide the work among different Tenderers or to reduce the work or to accept any tender for less than the tendered quantities without assigning any reason whatsoever.

22. EXECUTION CONTRACT AGREEMENT

22.1 The Tenderer whose tender is accepted shall be required to appear in person in the office of Regional General Manager or in the office of concerned Engineer, as the case may be or if a firm or corporation, a duly authorized representative shall so appear and execute the contract documents within 15 days after the contract has been awarded to him as indicated in Clause 2 of Special Conditions of Contract (SCC). Failure to do so shall constitute a breach of the agreement affected by the acceptance of the tender in which case the full value of the earnest money accompanying the tender shall stand forfeited without prejudice to any other rights or remedies.

22.2 In the event of any tenderers whose tender is accepted shall refuse to execute the contract documents as herein before provided, the RailTel may determine that such tenderer has abandoned the contract and thereupon his tender and acceptance thereof shall be treated as cancelled and RailTel shall be entitled to

forfeit the full amount of the Earnest Money and to recover the damages for such default.

23. FOREIGN EXCHANGE

Deleted

24. TENDERER'S ADDRESS

Tenderer shall state in the tender his postal address fully and clearly. Any communication sent to the Tenderers by post at his said address shall be deemed to have reached the tenderer duly & timely, notwithstanding the fact that the communication could not reach the tenderer at all or in time for whatever reason. Important documents shall be sent by Registered Post.

25. PREFERENCE TO PUBLIC SECTOR UNDERTAKING

Not used



SECTION – III

CHAPTER – 2

GENERAL CONDITIONS OF CONTRACT FOR USE IN CONNECTION WITH RAILTEL'S WORKS

<u>Para</u>	<u>Subject</u>
1.	Definitions
2.	General Obligations
3.	Law governing the Contract
4.	Communications to be in writing
5.	Service of Notice on Contractors
6.	Occupation and use of land
7.	Assignment or subletting of contract
8.	Assistance by the RailTel for the stores to be obtained by the Contractor.
9.	Railway Passes
10.	Carriage of materials
11.	Force Majeure Clause
12.	Representation of works
13.	Relics and Treasures
14.	Excavated material
15.	Indemnity by Contractors
16.	Security Deposit
17.	Completion Period
18.	Illegal Gratification
19.	Execution of Works
20.	Compliance to Engineer's Instructions
21.	Instructions of Engineer's Representative
22.	Adherence to specifications and drawings
23.	Working during night
24.	Damage to Railway/RailTel property or private life and property.
25.	Sheds, Store houses and Yards
26.	Provision of efficient and competent staff
27.	Workmanship and Testing
28.	Facilities for Inspection
29.	Examination of work before covering up
30.	Temporary Works
31.	Contractor to supply water for works
32.	Property in material and Plants
33.	Tools, Plant and Materials supplied by RailTel
34.	Precaution during progress of work
35.	Use of Explosives
36.	Suspension of Works
37.	Rates for items of works
38.	Demurrage and wharfage dues

39. Rates for extra items of works
40. Handing over of works
41. Variations in extent of contract
42. Powers of modification to contract
43. Claims
44. Measurements, certificates and payments
45. Measurement of Works
46. "On-Account" Payments
47. Maintenance of Works
48. Certificate of Completion of works
49. Approval only by Maintenance Certificate
50. Maintenance Certificate
51. Final Payment
52. Withholding and lien in respect of sums claimed
53. Signature on receipts for amounts
54. Labour
55. Provisions of Payment of Wages Act
56. Reporting of Accidents to Labour
57. Provisions of Workmen's Compensation Act
58. RailTel not to provide quarters for Contractor
59. Labour Camps
60. Non-employment of Labourers below the age of 15
61. Determination of Contract
62. Termination of Contract owing to default of Contractor
63. Right of RailTel after termination of contract owing to the default of contractor
64. Matters finally determined by RailTel
65. Settlement of dispute and arbitration



SECTION –III

Chapter-2

GENERAL CONDITIONS OF CONTRACT FOR USE IN CONNECTION WITH RAILTEL'S WORKS

DEFINITIONS AND INTERPRETATION

1. Definitions:

- 1.1 The meaning of terms/interpretations shall be taken as defined in Chapter-1 (INSTRUCTIONS TO TENDERERS AND CONDITIONS OF TENDERING).
- (a) **“Constructional Plant”** shall mean all appliances or things of whatsoever nature required for the execution, completion or maintenance of the works or the temporary works (as hereinafter defined) but do not include materials or other things intended to form or forming part of the permanent work.
- (b) **“Temporary Works”** shall mean all temporary works of every kind required for the execution, completion and/or maintenance of the works.
- (c) **“Period of maintenance”** shall mean the specified period of the maintenance from the date of completion of the work as certified by the Engineer.
- 1.2 **Singular and Plural:** Works importing the singular number shall also include the plural and vice versa where the context requires.
- 1.3 **Headings & marginal headings:** The headings and marginal headings in these general conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or the contract

2. GENERAL OBLIGATIONS

- 2.1 **Execution Co-relation and intent of contract documents:** The contract documents shall be signed in triplicate by the RailTel and the Contractor. The contract documents are complementary, and what is called for by any one shall be as binding as if called of try all; the intention of the documents is to include all labour and materials, equipments and transportation necessary for the proper execution of work. Materials or work not covered by or properly inferable from any heading or class of the specifications shall not be supplied by the RailTel to the contractors unless distinctly specified in the contract documents. Materials or works described in words, which so applied, have a well-known technical or trade

meaning shall be held to refer to such recognized standards.

2.2 If a work is transferred from the jurisdiction of one region of RailTel to another region or to a Project authority or vice versa while the contract is in subsistence, the contract shall be binding on the Contractor and the other region in the same manner & take effect in all respects as if the Contractor and the other region were parties thereto from the inception and the corresponding officer or the competent authority in the other region will exercise the same powers and enjoy the same authority as conferred to the Predecessor RailTel/Project under the original contract/agreement entered into.

2.3 If for administrative or other reasons the contract is transferred to the other region of RailTel the contract shall notwithstanding anything contained herein contrary thereto, be binding on the Contractor and the other region in the same manner and take effect in all respects as if the contractor and the other region had been parties thereto from the date of this contract.

3. Law governing the contract

3.1 The Contract shall be governed by the law for the time being in force in the Republic of India.

3.2 **Compliance to regulations and bye-laws** – The Contractor shall conform to the provision of any statute relating to the works and regulations and bye- laws of any local authority and of any water and lighting companies or undertakings, with whose system the work is proposed to be connected and shall before making any variation from the drawings or the specifications that may be necessitated by so confirming give to the Engineer notice specifying the variation proposed to be made and the reason for making the variation and shall not carry out such variation until he has received instructions from the Engineer in respect thereof. The Contractor shall be bound to give all notices required by statute, regulations or bye -laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof.

4. **Communications to be in writing** – All notices, communications, references and complaints made by the RailTel or the Engineer or the Engineer's representative or the Contractor interest concerning the works shall be in writing and no notice, communication, references or complaint not in writing shall be recognized.

5. **Service of Notices on Contractors** – The Contractor shall furnish to the Executive Director/RailTel the name, designation and address of his authorized agent and all complaints, notices, communications and references shall be deemed to have been duly given to the contract if delivered to the Contractor or his authorized agent or left at or posted to the address so given and shall be deemed to have been so given in the case of posting on day on which they would have reached such address in the ordinary course of post or on the day on which they were so delivered or left. In the case of contract by partners, any change in the constitution of the firm shall be forthwith notified by contractor to the Regional General Manager/RailTel.

- 6. Occupation and use of land** – No land belonging to or in the possession of the Railway/RailTel shall be occupied by the contractor without the permission of the RailTel. The Contractor shall not use, or allow to be used, the site for any purposes other than that of executing the works.
- 7. Assignment or subletting of contract:** - The Contractor shall not assign or sublet the contract or any part thereof or allow any person to become interested therein in any manner whatsoever without the special permission in writing of the RailTel. Any breach of this condition shall entitle the RailTel to rescind the contract under clause 62 of these conditions and also render the contractor liable for payment to the RailTel in respect of any loss or damage arising or ensuring from such cancellation. Provided always that execution of the details of the work by petty contractor under the direct and personal supervision of the contractor or his agent shall not be deemed to be sub- letting under this clause. The permitted subletting of work by the contractor shall not establish any contractual relationship between the sub-contractor and the RailTel and shall not relieve the Contractor of any responsibility under the Contract.
- 8. Assistance by the RailTel for the stores to be obtained by the Contractor:** Owing to difficulty in obtaining certain materials (including Tools & Plants) in the market, the RailTel may have agreed without any liability therefore, to endeavor to obtain or assist the Contractor in obtaining the required quantities of such materials as may be specified in the Tender. In the event of delay or failure in obtaining the required quantities of the aforesaid materials, the Contractor shall not be deemed absolved of his own responsibility and shall keep in touch with the day-to-day position regarding their availability and accordingly adjust progress of works including employment of labour and the RailTel shall not in any way be liable for the supply of materials or for the non supply thereof for any reasons whatsoever not for any loss or damage arising in consequence of such delay or non supply.
- 9. Railway Passes** – No free Railway passes shall be issued by the RailTel to the Contractor or any of his employee/worker.
- 10. Carriage of materials** – No forwarding orders shall be issued by the RailTel for the conveyance of Contractor's materials, tools and plant by Rail which may be required for use in the works and the contractor shall pay full freight at public tariff rates therefore.
- 11. Force Majeure Clause**

If at any time, during the continuance of this Contract, the performance, in whole or part, by either party, of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, act of the public enemy, Civil Commotion, Sabotage, Fires, Floods, Earth quakes, explosions, strikes, epidemics, quarantine restrictions, lockouts, any statute, statutory rules/regulations, order of requisitions issued by any Government Department or Competent Authority of acts of God (here- in-after referred to as event) then provided notice of the happening of any such event is given by either party to

the other within twenty one days from the date of occurrence thereof, neither party shall, by reason of such event, be entitled to terminate this Contract nor shall either party have any claim for damage against the other in respect of such non-performance or delay in performance, and the obligations under the Contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, PROVIDED FURTHER that if the performance in whole or part of any obligation under this Contract is prevented or delayed by reason of any such event beyond a period as mutually agreed to by the RailTel and the Contractor after any event or 60 days in the absence of such an agreement whichever is more, either party may at its option terminate the Contract provided also that if the contract is so terminated under this clause the RailTel may at the time of such termination take over from the Contractor at prices as provided for in the contract, all works executed or works under execution.

- 12. Representation on Works** – The Contractor shall, when he is not personally present on the site of the works place, keep a responsible agent at the works during working hours who shall, on receiving reasonable notice, present himself to the Regional General Manger/RailTel and orders given by the Engineer or the Engineer's Representative to the agent shall be deemed to have the same force as if they had been given to the Contractor. Before absenting himself, the Contractor shall furnish the name and address of his agent for the purpose of this clause and failure on the part of the Contractor to comply with this provision at any time will entitle the RailTel to rescind the contract under Clause 62 of these conditions.
- 13. Relics and Treasures** – All gold, silver, oil and other minerals of any description and all precious stones, coins, treasures, relics, antiquities and other similar things which shall be found in or upon the site shall be property of the RailTel and the Contractor shall duly preserve the same to the satisfaction of the RailTel and shall from time to time deliver the same to such person or persons as the RailTel may appoint to receive the same.
- 14. Excavated material** – The Contractor shall not sell or otherwise dispose of or remove except for the purpose of this contract, the sand, stone, clay ballast, earth, rock or other substances or materials which may be obtained from any excavation made for the purpose of the works or any building or produced upon the site at the time of delivery of the possession thereof but all the substances, materials, buildings, and produce shall be the property of the RailTel provided that the Contractor may, with the permission of the Regional General Manger/RailTel, use the same for the purpose of the works either free of cost or pay the cost of the same at such rates as may be determined by the Engineer.
- 15. Indemnity by Contractors** – The Contract shall indemnify and save harmless the RailTel from and against all actions, suit proceedings, losses, costs, damages, charges, claims, and demands of every nature and description brought or recovered against the RailTel by reason of any act or omission of the Contractor, his agents or employees, in the execution of the works or in his guarding of the same. All sums payable by way of compensation under any of these conditions shall be considered as reasonable compensation to be applied to the actual loss or damage sustained, and whether or not any damage shall have been sustained.

16. Security Deposit

16.1 Security Deposit should be recovered by percentage deduction from the Contractor's "on account" bills. Provided also that in case of defaulting Contractor the RailTel may retain any amount due for payment to the Contractor on the pending "on account bills" so that the amounts so retained may not exceed 10% of the total value of the contract.

16.2 Unless otherwise specified in the special conditions, if any, the rates for Deposit / rate of recovery / mode of recovery shall be as under:

- (a) Security Deposit for each work should be 5% of the contract value.
- (b) The rate of recovery should be at the rate of 10% of the bill amount till the full security deposit is recovered.
- (c) Security Deposits will be recovered only from the running bills of the contract and no other mode of collecting SD such as SD in the form of instruments like BG shall be accepted towards Security Deposit.

Security Deposit shall be returned to the contractor after the complete physical completion of the work as certified by the competent authority. The competent authority shall normally be the authority who is competent to sign the contract.

16.3 No interest will be payable upon the Earnest Money and Security Deposit or amounts payable to the Contractor under the Contract.

17. Completion Period

17.1 Subject to any requirement in the contract as to completion of any portion or portions of the works before completion of the whole, the contractor shall fully and finally complete the whole of the works comprised in the contract (with such modifications as may be directed under conditions of this contract) by the date entered in the contract or extended date in terms of the following clauses:

17.1.1 If any modifications have been ordered which in the opinion of the Engineer have materially increased the magnitude of the work, then such extension of the contracted date of completion may be granted as shall appear to the Engineer to be reasonable in the circumstances, provided moreover that the Contractor shall be responsible for requesting such extension of the date as may be considered necessary as soon as the clause thereof shall arise and in any case not less than one month before the expiry of the date fixed for completion of the works.

17.1.2 If in the opinion of the Engineer the progress of work has any time been delayed by any act or neglect of RailTel's employees or by other contractor employed by the RailTel under sub-clause (4) of clause 20 of these conditions or in executing the work not forming part of the contract but on which contractor's performance necessarily depends or by reason of proceeding taken or threat-tended by or

dispute with adjoining or neighbouring owners or public authority arising otherwise through the Contractor's own default etc. or by the delay authorized by the Engineer pending arbitration` or in consequences of the contractor not having received in due time necessary instructions from the RailTel for which he shall have specially applied in writing to the Engineer or his authorized representative then, upon happening of any such event causing delay, the contractor shall immediately give notice thereof in writing to the Engineer within 15 days of such happening but shall nevertheless make constantly his best endeavours to bring down or make good the delay and shall do all that may be reasonably required of him to the satisfaction of the Engineer to proceed with the works. The contractor may also indicate the period for which the work is likely to be delayed and shall be bound to ask for necessary extension of time. The engineer on receipt of such request from the contractor shall consider the same and shall grant such extension of time as in his opinion is reasonable having regard to the nature and period of delay and the type and quantum of work affected thereby. No other compensation shall be payable for works so carried forwarded to the extended period of time, the same rates, terms and conditions of contract being applicable as if such extended period of time was originally in the original contract itself.

17.1.3 In the event of any failure or delay by the RailTel to hand over the Contractor possession of the lands necessary for the execution of the works or to give the necessary notice to commence the works or to provide the necessary drawings or instructions or any other delay caused by the RailTel due to any other cause whatsoever, then such failure or delay shall in no way affect or vitiate the contract or alter the character thereof or entitle the contractor to damages or compensation herefore but in any such case, the RailTel may grant such extension or extensions of the completion date as may be considered reasonable.

17.2 Extension of time for delay due to contractor – The time for the execution of the work or part of the works specified in the contract documents shall be deemed to be the essence of the contract. If the contractor fails to complete the works within the time as specified in the contract for the reasons other than the reasons specified in clause 11 and

17.1 above, the RailTel may, if satisfied that the works can be completed by the contractor within reasonable short time thereafter, allow the contractor further extension of time as the Engineer may decide. On such extension the RailTel will be entitled without prejudice to any other right and remedy available on that behalf, to recover from the contractor as agreed damages and not by way of penalty a sum equivalent to 1/2% of the contract value of the works for each week or part of the week subject to a maximum of 10% of the contract value.

17.2.1 For the purpose of this clause, the contract value of the works shall be taken as value of work as per contract agreement including any supplementary work order/contract agreement issued. Provided also, that the total amount of liquidated damages under this condition shall not exceed 10% of the total value of the contract. Provided further, that if the RailTel is not satisfied that the works can be completed by the Contractor and in the event of failure on the part of the contractor to complete the work within further extension of time allowed as aforesaid, the RailTel shall be entitled, without prejudice to any other right or

remedy available in that behalf, to appropriate the contractor's security deposit and rescind the contract under clause 62 of these conditions, whether or not actual damage is caused by such default.

18. Illegal Gratification

- 18.1 Any bribe, commission, gift or advantage given, promised or offered by or on behalf to the Contractor or his partner, agent or servant or anyone on his behalf, to any officer or employees of the RailTel, or to any person on his behalf in relation to obtaining or the execution of this or any other contract with the RailTel shall, in addition to any criminal liability which he may incur, subject the contractor to the rescission of the contract and all other contracts with the RailTel and to the payment of any loss or damage resulting from such decision and the RailTel shall be entitled to deduct the amounts so payable from any moneys due to the Contractor (s) under this contract or any other contracts with the RailTel.
- 18.2 The Contractor shall not lend or borrow from or have or enter into any monitory dealings or transactions either directly or indirectly with any employee of the RailTel and if he shall do so, the RailTel shall be entitled forthwith to rescind the contract an all other contracts with the RailTel. Any question or dispute as to the commission or any shall offence or compensation payable to the RailTel under this clause shall be settled by the Regional General Manager of RailTel, in such a manner as shall consider fit and sufficient and his decision shall be final and conclusive . In the event of rescission of the contract under this clause, the Contractor will not be paid any compensation whatsoever except payments for the work done up-to-date of rescission.

19. EXECUTION OF WORKS

19.1

Contractor's understanding – It is understood and agreed that the Contract has, by careful examination, satisfied himself as to the nature and location of the work, the conformation of the ground, the character, quality and quantity of the materials to be encountered, the character of equipment and facilities needed preliminary to and during the progress of the works, the general and local conditions, the labour conditions prevailing therein and all other matters which can in any way affect the works under the contract.

- 19.2 **Commencement of works** – The Contractor shall commence the works within 15 days after the receipt by him of an order in writing to this effect from the RailTel and shall proceed with the same with due expedition and without delay. The work should be started with due intimation to RailTel.
- 19.3 **Accepted programme of work** – The Contractor who has been awarded the work shall as soon as possible but not later than 7 days from the date of receipt of the acceptance letter in respect of contracts with initial completion period of one year or less or not later than 15 days for other contracts have to submit the detailed programme of work indicating the time schedule of various items of works in the form of Bar Chart/PERT/CPM. He shall also submit the details of organization (in

terms of labour and supervisors) plant and machinery that he intends to utilize (from time to time) for execution of the work within stipulated date of completion. The programme of work amended as necessary by discussions with the Engineer, shall be treated as the agreed programme of the work for the purpose of this contract and the contractor shall and endeavour to fulfil this programme of work. The progress of work will be watched accordingly and the liquidated damages will be with reference to the overall completion date. Nothing stated herein shall preclude the contractor in achieving earlier completion of item or whole of the works than indicated in the programme.

- 19.4 Setting out of works** – The Contractor shall be responsible for the correct setting out of all works in relation to original reference at his cost. The Contractor shall execute the work true to specifications, drawings, plans and dimensions as mentioned in the contract document and as directed by the Engineer's representative and shall check these at frequent intervals. The Contractor shall provide all facilities like labour and instruments and shall cooperate with the Engineer's representative at all time, during the progress of the works. Any error shall appear or arise in any part of the work, the Contractor, on being required so to do by the Engineer's representative shall, at his own rectify such errors, to the satisfaction of the Engineer's representative. Such checking shall not absolve the Contractor of his own responsibility of maintaining accuracy in the work.

20. Compliance to Engineer's Instructions

- 20.1** The Engineer shall direct the order in which the several parts of the works shall be executed and the Contractor shall execute without delay all orders given by the Engineer from time to time but the Contractor shall not be relieved thereby from responsibility for the due performance of the works in all respects.

- 20.2 Alterations to be authorized** – No alterations in or additions to or omissions or abandonment of any part of the works shall be deemed authorized, except under instructions from the Engineer, and the Contractor shall be responsible to obtain such instructions in each and every case in writing from the Engineer.

- 20.3 Extra Works**– Should works over and above those included in the contract require to be executed at the site, the contractor shall have no right to be entrusted with the execution of such works, which may be carried out by another contractor or contractors or by other means at the sole discretion of the RailTel.

20.4 Separate Contracts in connection with works

The RailTel shall reserve the right to let other contracts in connection with the works. The Contractor shall afford other contractors reasonable opportunity for the storage of their materials and the execution of their works and shall properly connect and coordinate his work with theirs. If any part of the Contractor's work depends for proper execution or result upon the work of another contractor(s), the Contractor shall inspect and promptly report to the Engineer any defects in such works that render it unsuitable for such proper execution and results. The Contractor's failure so to inspect and report shall constitute as acceptance of the other contractor's work as fit and proper for the reception of his work, except as to

defects which may develop in the other contractor's work after the execution of his work.

21. Instructions of Engineer's Representative – Any instructions or approval given by the Engineer's representative to Contractor in connection with the works shall bind the Contractor as though it had been given by the Engineer provided always as follows: -

21.1 Failure of the Engineer's representative to disapprove any work or materials shall not prejudice the power of the Engineer thereafter to disapprove such work or material and to order the removal or breaking up thereof.

21.2 If the Contractor shall be dissatisfied by reason of any decision of the Engineer's representative he shall be entitled to refer the matter to the Engineer who shall there upon confirm or vary such decision.

22. Adherence to specifications and drawings

22.1 The whole of the works shall be executed in perfect conformity with the specifications and drawings of the contract. If the Contractor performs any works in a manner contrary to the specifications or drawings or any of them and without such reference to the Engineer, he shall bear all the costs arising or ensuring therefrom and shall be responsible for all loss to the RailTel.

22.2 Drawings and specifications on the works:

22.2.1 The contractor shall keep one copy of Drawings and specifications at the site, in good order, and such contract documents as may be necessary, available to the Engineer or the Engineer's Representative.

22.2.2 The supply of equipment and materials shall include supply of one set of printed documents from original equipment manufacturers with each equipment as given in technical supplement.

22.3 Ownership of Drawings and Specifications – All drawings and Specifications and copies thereof furnished by the RailTel to the Contractor are deemed to be the property of the RailTel. They shall not be used in another works and with the exception of the signed contract set, shall be returned by the Contractor to the RailTel on completion of the work or termination of the Contract.

22.4 Compliance with Contractor's request for details – The Engineer shall furnish with reasonable promptness, after receipt by him of the Contractor's request for the same, additional instructions by means of drawings of otherwise, necessary for the proper execution of the works or any part thereof. All such drawings and instructions shall be consistent with the Contract Documents and reasonably inferable there from.

22.5 Meaning and Intent of specification and drawings – If any ambiguity arises as to the meaning and intent of any portion of the Specifications and Drawings or as to execution or quality of any work or material, or as to the measurements of the works, the decision of the Engineer thereon shall be final subject to the appeal (within 7 days of such decision being intimated to the Contractor) to the

competent authority in RailTel who shall have the power correct any errors, omissions, or discrepancies in aforementioned items and whose decision in the matter in dispute or doubt shall be final and conclusive.

- 23. Working during night** – The Contractor shall not carry out any work between sunset and sunrise without the previous permission of the Engineer. Hence, no “night duty” shall be payable to the contractor for the portion/part of the works to be undertaken during the night.
- 24. Damage to Railways/RailTel property or private life and property** – The Contractor shall be responsible for all risk to the works and for trespass and shall make good at his own expense all loss or damage whether to the works themselves or any other property of the Railways/RailTel or the lives, persons or property of others from whatsoever cause in connection with the works until they are taken over by the RailTel and this although all reasonable and proper precautions may have been taken by the Contractor, and in case the RailTel shall be called upon to make good any costs, loss or damages, or to pay any compensation, including that payable under the provisions of the Workmen’s Compensation Act or any statutory amendments thereof to any person or persons sustaining damages as aforesaid by reason of any act, or any negligence or omissions on the part of the Contractor the amount of any costs or charges including costs and charges in connection with legal proceedings, which the RailTel may incur in reference thereto, shall be charged to the Contractor. The RailTel shall have the power and right to pay or to defend or compromise any claim of threatened legal proceedings or in anticipation of legal proceedings being instituted consequent on the action or default of the Contractor, to take such steps as may be considered necessary or desirable to ward off or mitigate the effect of such proceedings, charging to Contractor, as aforesaid, any sum or sums of money which may be paid and any expenses whether for reinstatement or otherwise which may be incurred and the propriety of any such payment, defense or compromise, and the incurring of any such expenses shall not be called in question by the Contractor.
- 25. Sheds, Stores houses and Yards** – The Contractor shall at his own expense provide himself with sheds, storehouses and yards in such situations and in such numbers as in the opinion of the Engineer is requisite for carrying on the works and the Contractor shall keep at each such sheds, store houses and yards a sufficient quantity of materials and plant in stock so as not to delay the carrying out of the works with due expedition and the Engineer and the Engineer’s representative shall have free access to the said sheds, store houses and yards at any time for the purpose of inspecting the stock of materials or plant so kept in hand, and any materials or plant which the Engineer may object to shall not be brought upon or used in the works, but shall be forthwith removed from the sheds, store houses or yards by the contractor. The Contractor shall at his own expenses provide and maintain suitable mortar mills, soaking vats or any other equipments necessary for the execution of the works.
- 26. Provision of efficient and competent staff** – The Contractor shall place and keep on the works at all times efficient and competent staff to give the necessary directions to his workmen and to see that they execute their work in sound and

proper manner and shall employ only such supervisors, workmen and labourers in or about the execution of any of these works as are careful and skilled in various trades and callings. The Contractor shall at once remove from the works any agents, permitted sub -contractor, supervisor, workman or labourer who shall be objected to by the Engineer and if and whenever required by the Engineer, he shall submit a correct return showing the names of all staff and workmen employed by him. In the event of the Engineer being of the opinion that the Contractor is not employing on the works a sufficient number of staff and workmen as is necessary for the proper completion of the works within the time prescribed, the Contractor shall forthwith on receiving intimation to this effect take on the additional number of staff and labour specified by the Engineer within seven days of being so required and failure on the part of the Contractor to comply with such instructions will entitle the RailTel to rescind the contract under Clause 62 of these conditions.

27. Workmanship and Testing

27.1 The whole of the works and/or supply of materials specified and provided in the contract or that may be necessary to be done in order to form and complete any part thereof shall be executed in the best and most substantial workman like manner with materials of the best and most approved quality of their respective kinds, agreeable to the particulars contained in or implied by the specifications and as referred to in and represented by the drawings or in such other additional particulars. Instructions and drawings may be found requisite to be given during the carrying on of the works and to the entire satisfaction of the Engineer according to the instructions and directions, which the Contractors may from time to time receive from the Engineer. The materials may be subjected to tests by Mean of such machines, instruments and appliances as the Engineer may direct and wholly at the expense of the Contractor.

27.2 **Removal of Improper work and materials** – The Engineer or the Engineer’s representative shall be entitled to order from time to time:

27.2.1 The removal from the site within the time specified in the order of any materials, which in his opinion are not in accordance with the specifications or drawings.

27.2.2 The substitution of proper and suitable materials, and

27.2.3 The removal and proper re-execution, notwithstanding any previous tests thereof or “on account” payments therefore, of any work which in respect of materials or workmanship is not in his opinion in accordance with the specifications and in case of default on the part of the Contractor in carrying out such order the RailTel shall be entitled to rescind the contract under Clause 62 of these conditions.

28. Facilities for Inspection: - The Contractor shall afford the Engineer and the Engineer’s Representative every facility for entering in and upon every portion of the work at all hours for the purpose of inspection or otherwise and shall provide all labour, materials, instruments, appliances and things of every kinds required for the purpose and the Engineer and the Engineer’s representative shall at all time have free access to every part of the works and to all places at which materials for the

work are stored or being prepared.

- 29. Examination of work before covering up:** - The Contractor shall give two days notice to the Engineer or the Engineer's Representative whenever any work or materials are intended to be covered up in the earth, in bodies or walls or otherwise to be placed beyond the Reach of Measurements in order that the work may be inspected or that correct dimension may be taken before being so covered, placed beyond the reach of measurement in default whereof, the same shall at the option of the Engineer or the Engineer's Representative be uncovered and measured at the contractor's expense or no allowance shall be made for such work or materials.
- 30. Temporary works:** - All Temporary works necessary for the proper execution of the works shall be provided and maintained by the Contractor and subject to the consent of the Engineer, shall be removed by him at his expenses when they are no longer required and in such manner as the Engineer shall direct. In the event of failure on the part of the Contractor to remove the temporary works, the Engineer will cause them to be removed and cost as increased by supervision and other incidental charge shall be recovered from the Contractor. If temporary huts are provided by the Contractor on the RailTel/Railway land for labour engaged by him and the work is completed but the contractor's labour refused to vacate and have to be removed by the RailTel, necessary expenses incurred by the RailTel in connection therewith shall be borne by the Contractor.
- 31. Contractor to supply water for works**
 - 31.1 Unless otherwise provided in the contract, the contractor shall be responsible for arrangements to obtain supply of water for the works.
 - 31.2 Water supply from the Railway system: Deleted
 - 31.3 Water supply by Railway Transport : Deleted
 - 31.4 Contractor to arrange supply of Electric power for works.
 - 31.4.1 Unless otherwise provided in the contract, the contractor shall be responsible for arrangements to obtain supply of Electric Power for the works.
 - 31.4.2 **Electric supply from the Railway system** – The RailTel may supply to the Contractor part or whole of the electric power wherever available and possible, required for execution of works from the Railway's existing electric supply systems at or near the site of works on specified terms and conditions and such charges as shall be determined by the RailTel and payable by the contractor provided the cost of arranging necessary connection to the Railway's Electric supply systems, and laying of underground/overhead conducts circuit protection, electric power meters, transmission structure, shall be borne by the Contractor and that the contractor shall not be entitled to any compensation for interruption or failure of the Electric supply system.

32. Property in material and Plants: Deleted

33. Tools, Plant and Materials Supplied by the RailTel

33.1 The Contractor shall take all responsible care of all tools, plants and materials or other property whether of a like description or not belonging to the RailTel and committed to his charge for the purpose of the works and shall be responsible for all damage or loss caused by him, his agents permitted sub- contractor or his workmen or others while they are in his charge. The Contractor shall sign accountable receipts for tools, plants and materials made over to him by the Engineer and on completion of the works shall handover the unused balance of the same to the Engineer in good order and repair, fair wear and tear excepted and shall be responsible for any failure to account for the same or any damage done thereto.

33.2 **Hire of RailTel's Plant:** Deleted.

34. Precaution during progress of work

34.1 During the execution of works, unless otherwise specified the Contractor shall at his own cost provide the materials for and execute all shoring, timbering and strutting works as is necessary for the stability and safety of all structures, excavations and works and shall ensure that no damage, injury, loss is caused or likely to be caused to any person or property.

34.2 **Roads and water courses:** Existing roads or water courses shall not be blocked, cut through, altered, diverted or obstructed in any way by the Contractor, except with the permission of the Engineer. All compensations claimed for any authorized closure, or his agent or his staff shall be recoverable from the Contractor by deduction from any sums which may become due to him in terms of contract or otherwise according to law.

34.3 **Provision of access to premises:** During progress of work in any street or thoroughfare, the Contractor shall make adequate provision of the passage of traffic, for securing safe access to all premises approached from such street or thoroughfare and for any drainage, water supply or meant for lightning which may be interrupted by reason of the execution of the works and shall react and maintain at his own cost barriers, lights and other safeguards as prescribed by the Engineer, for the regulation of the traffic, and provide watchmen necessary to prevent accidents. The works shall in such cases be executed night and day if so ordered by the Engineer and with such vigour so that the traffic way be impeded for as short a time as possible.

34.4 **Safety of Public:** The Contractor shall be responsible to take all precautions to ensure the safety of the public or Railway/RailTel's property and shall post such look out men as may in the opinion of the Engineer be required to comply with regulations pertaining to the work.

35 Use of Explosives: Explosive shall not be used on the works or on the site by the Contractor without the permission of the Engineer and then only in the manner and to the extent to which such permission is given. Where explosives are required for

the works, the same shall be stored in a special magazine to be provided by and at the cost of the Contractor in accordance with the Explosive Rules. The Contractor shall obtain the necessary license for the storage and the use of explosives and all operations in which or for which explosives are employed shall be at the sole risk and responsibility of the Contractor and the Contractor shall indemnify the Railway/RailTel in respect thereof.

36 Suspension of works

36.1 The Contractor shall on the order of Engineer suspend the progress of the works or any part thereof for such time or times and in such manner as the Engineer may consider necessary and shall during such suspension properly protect and secure the work so far as is necessary in the opinion of the Engineer. If such suspension is: -

- (a) Provided for in the contract, or
- (b) Necessary for the proper execution of the works or by the reason of act of God or by some default on the part of the Contractor, and or
- (c) Necessary for the safety of the works or any part thereof.

36.2 The Contractor shall not be entitled to the extra costs, if any, incurred by him during the period of suspension of the works; but in the event of any suspension ordered by the Engineer for reasons other than aforementioned and when each such period of suspension exceeds 14 days, the Contractor shall be entitled to such extension of time for completion of the works as the engineer may consider proper having regard to the period or periods of such suspensions and to such compensations as the Engineer may consider reasonable in respect of salaries or wages paid by the Contractor to his employees during the periods of such suspensions.

36.3 Suspension lasting more than 3 months – If the progress of the works or any part thereof is suspended on the order of the Engineer for more than three months at a time, the Contractor may serve a written notice on the Engineer requiring permission within 15 days from the receipt thereof to proceed with the works or that part thereof in regard to which progress is suspended and if such permission is not granted within that time the Contractor by further written notice so served may, but is not bound to, elect to treat the suspension where it affects part only of the works as an omission of such part or where it affects the whole of the works, as an abandonment of the contract by the RailTel.

37 Rates for items of works – The rates entered in the accepted Schedule of Rates of the Contract are intended to provided for works duly and properly completed in accordance with the general and special conditions of the contract and the specifications and drawings together with such enlargements, extensions, diminutions, reductions, alterations or additions as may be ordered in terms of Clause 42 of these conditions and without prejudice to the generality thereof and shall be deemed to include and cover superintendence and labour, supply including full freight of materials, stores, tools and all apparatus and plant required on the works, except such tools, plant or materials as may be specified in the contract to be supplied to the Contractor by the RailTel, the erection, maintenance and removal of all temporary works and buildings, all arrangements for the safety of the public or of employees during the execution of works, all sanitary and medical arrangements for labour camps as may be prescribed by the RailTel, the

setting of all work and of the construction, repair and upkeep of all center lines, bench marks and level pegs thereon, site clearance, all fees, duties, royalties, rent and compensation to owners for surface damage or taxes and impositions payable to local authorities in respect of land, structures and all material supplied for the work or other duties or expenses for which the Contractor may become liable or may be put to under any provision of law for the purpose of or in connection with the execution of the contract, and all such other incidental charges or contingencies as may have been specially provided for in the specifications.

38 Demurrage and wharfage dues

- 38.1 Demurrage charges calculated in accordance with the scale in force for the time being on the RailTel and incurred by the Contractor failing to load or unload any goods of materials within the time allowed by RailTel for loadings as also wharfage charges, of materials not removed in time as also charges due on consignments booked by or to him shall be paid by the Contractor, failing which such charges shall be debited to the Contractor's account in the hands of the RailTel and shall be deducted from any sums which may become due to him in terms of the contracts.

39 Rates for extra items of works

- 39.1 Any item of work carried out by the Contractor on the instructions of the Engineer which is not included in the accepted schedule of rates shall be executed at the rates set forth in the "Schedule of Rates" modified by the tender percentage and such items are not contained in the latter, at the rate agreed upon between the Engineer and the Contractor before the execution of such items of work and the contractors shall be bound to notify the Engineer at least seven days before the necessity arises for the execution of such items of works that the accepted schedule of rates does not include rate or rates for the extra work involved. The rates payable for such items shall be decided at the meeting to be held between the Engineer and Contractor, in as short a period as possible after the need for the special item has come to the notice. In case the Contractor fails to attend the meeting after being notified to do so or in the event of no settlement being arrived at, the RailTel shall be entitled to execute the extra works by other means and the contractor shall have no claim for loss or damage that may result from such procedure.

- 39.2 Provided that if the Contractor commences work or incurs any expenditure in regard thereto before the rates as determined and agreed upon as lastly hereunto fore mentioned, then and in such a case the Contractor shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of determination of the rates as aforesaid according to the rates as shall be fixed by the Engineer. However if the contractor is not satisfied with the decision of the Engineer in this respect he may appeal to the competent authority of RailTel within 30 days of getting the decision of the Engineer, supported by analysis of the rates claimed. The competent authority of RailTel's decision after hearing both the parties in the matter would be final and binding on the Contractor.

40 Handing over of works

- 40.1 The Contractor shall be bound to hand over the works executed under the contract to the RailTel complete in all respect to the satisfaction of the Engineer. The

Engineer shall determine the date on which the work is considered to have been completed, in support of which his certificate shall be regarded as sufficient evidence for all purposes. The engineer shall determine from time to time, the date on which any particular section of the work shall have been completed, and the contractor and the contractor shall be bound to observe any such determination of the Engineer.

- 40.2 Clearance of Site on Completion:** On completion of the works the contractor shall clear away and remove from the site all constructional plant, surplus material, rubbish and temporary works of every kind and leave whole of the site and works clean and in a workman like condition to the satisfaction of the Engineer. No final payment in settlement of the accounts for the work shall be paid, held to be due or shall be made to the contractor till, in addition to any other condition necessary for such final payment, site clearance shall have been affected by him, and such clearance may be made by the Engineer at the expense of the Contractor in the event of his failure to comply with this provision within 7 days after receiving notice to that effect. Should it become necessary for the Engineer to have the site cleared at the expense of the Contractor, the RailTel shall not be held liable for any loss or damage to such of the Contractor's property as may be on the site and due to such removal there from which removal may be affected by means of public sales of such materials and property or in such a way as deemed for and convenient to the Engineer.

41 VARIATIONS IN EXTENT OF CONTRACT

- 41.1 Modification to Contract to be in writing** – In the event of any of the provisions of the Contract requiring to be modified after the contract documents have been signed, the modifications shall be made in writing and signed by the RailTel and the Contractor, and no work shall proceed under such modifications until this has been done. Any verbal or written arrangement abandoning, modifying, extending, reducing or supplementing the Contract or any of the terms thereof shall be deemed conditional and shall not be binding on the RailTel unless and until the same is incorporated in a formal instrument and signed by the RailTel and the Contractor and till then the RailTel shall have the right to repudiate such arrangement.

42 Powers of Modification to Contract

- 42.1** The Engineer on behalf of the RailTel shall be entitled by order in writing to enlarge or extend, diminish or reduce the works or make any alterations in their design, character, position, site quantities, dimensions or in the method of their execution or in the combination and use of materials for the execution thereof or to order any additional work to be done or any works not to be done and the Contractor will not be entitled to any compensation for any increase / reduction in the quantities of work but will be paid only for the actual amount of work done and for approved materials supplied against a specific order.
- 42.2** Unless otherwise specified in the special conditions of the contract, the accepted variation in quantity for each individual item of the contract would be up to $\pm 25\%$

of the quantity originally contracted. The contractor shall be bound to carry out the work at the agreed rates and shall not be entitled to any claim or any compensation, whatsoever up to the limit of $\pm 25\%$ variation in quantity of individual items of works.

- 42.3 Valuation of Variations** – The enlargements, extensions, diminution, reduction, alterations or additions referred to in sub-clause (2) of this clause shall in no degree affect the validity of the contract but shall be performed by the Contractor as provided therein and be subject to the same conditions, stipulations and obligations as if they had been originally and expressly included and provided for in the specifications and drawings and the amounts to be paid therefore shall be calculated in accordance with the accepted schedule of rates. Any extra items/quantities of work falling outside the purview of the provisions of sub-clause (2) above shall be paid for at the rates determined under clause 39 of these conditions.

43. CLAIMS

- 43.1 Monthly Statement of Claims** - The contractor shall prepare and furnish to the Engineer once in every month an account giving full and detailed particulars of all claims for any additional expenses to which the Contractor may consider himself entitled to and of all extra or additional works ordered by the Engineer which he has executed during the preceding month and no claim for payment for and such work will be considered which has not been included in such particulars.
- 43.2 Signing of “No Claim” Certificate** – The Contractor shall not be entitled to make any claim whatsoever against the RailTel under or by virtue of or arising out of this contract, nor shall the RailTel entertain or consider any such claim, if made by the Contractor, after he shall have signed a ‘No Claim’ certificate in favour of the RailTel, in such form as shall be required by the RailTel, after the works are finally measured up. The Contractor shall be debarred from disputing the correctness of the items covered by “No Claim Certificate” or demanding a preference to arbitration in respect thereof.

44. MEASUREMENTS, CERTIFICATES AND PAYMENTS

Qualities in schedule annexed to Contract- The quantities set out in the accepted schedule of rates with items of works quantified are the estimated quantities of the works and they shall not be taken as the actual and correct quantities of the works to be executed by the Contractor in fulfillments of his obligations under the contract.

- 46. Measurements of Works:** The Contractor shall be paid for the works at the rates in the accepted schedule of rates and for extra works at rates determined under Clause 39 of these conditions on the measurements taken by the Engineer or the Engineer’s representative in accordance with the rules prescribed for the purpose by the RailTel. The quantities for items the unit of which in the accepted schedule of rates is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one; for item the unit of which in the accepted schedule of rates is single, the quantities shall be calculated to places of decimals. Such measurements will be taken of the

work in progress from time to time and at such intervals as in the opinion of the Engineer shall be proper having regard to the progress of works.

The date and time on which “on account” or final measurements are to be made shall be communicated to the Contractor who shall represent at the site and shall sign the results of the measurements (which shall also be signed by the Engineer or the Engineer’s representative) recorded in the official measurements book as an acknowledgement of his acceptance of the accuracy of the measurements. Failing the Contractor’s attendance the work may be measured up in his absence and such measurements shall, notwithstanding such absence, be binding upon the Contractor whether or not he shall have signed the measurement book provided always that any objection made by him to measurement shall be duly investigated and considered in the manner set out below:

- (a) It shall be open to the Contractor to take specific objection to any recorded measurements or Classification on any ground within seven days of the date of such measurements. Any re-measurement taken by the Engineer or the Engineer’s representative in the presence of the Contractor or in his absence after due notice has been given to him in consequences of objection made by the contractor shall be final and binding on the Contractor and no claim whatsoever shall thereafter be entertained regarding the accuracy and classification of the measurement.
- (b) If an objection raised by the Contractor is found by the Engineer to be incorrect, the Contractor shall be liable to pay the actual expenses incurred in measurements.

46 “On-Account” Payments

46.1 The Contractor shall be entitled to be paid from time to time by way of “On Account” payment only for such works as in the opinion of the Engineer he has executed in terms of the contract. All payment due on the Engineer’s or the Engineer’s Representatives certificate of measurements shall be subject to any deduction which may be made under these presents and shall further be subject to, unless otherwise required by Clause 16 of these conditions a retentions of 10% by way of security deposits, until the amount of security deposit by way of retained earnest money and such retentions shall amount to 10% of the total value of the contract provided always that the Engineer may by any certificate make any correction or modification in any previous certificate which shall have been issued by him and that the Engineer may withhold any certificate if the works or any part thereof are not being carried out to this satisfactions.

46.2 Rounding off amounts: The total amount due on is certificate shall be rounded off to the nearest rupee i.e. sums less than 50 paise shall be omitted and sums of 50 paise and more upto Rs. 1/- will be reckoned as Rs. 1/-.

46.3 On-Account Payments not prejudicial to final settlements: “On Account” payments made to the Contractor shall be without prejudice to the final making up of the accounts (except where measurement are specifically noted in the

Measurement Book as “Final Measurements” and as such have been signed by the Contractor) and shall in no respect be considered or used as evidence of any facts stated in or to be inferred from such account not of any particular quantity of work having been executed not of the manner of its execution being satisfactory.

46.4 Manner of payment: Unless otherwise specified payments to the Contractor will be made through (electronics mode) RTGS only.

47. Maintenance of works: The contractor shall at all times during the progress and continuance of the works and also for the period of maintenance specified in the tender form after the date of passing of the certificate of completion by the Engineer or any earlier date subsequent to the completion of the works that may be fixed by the Engineer be responsible for and effectively maintain and uphold in good substantial sound and perfect conditions all and every part of the work and shall make good from time to time and at all times as often as the Engineer shall require. Any damage or defect that may during the above period arise in or be discovered or be in any way connected with the works, provided that such damage or defect is not directly caused by errors in the contract documents, act of providence or insurrection or civil riot, and the Contractor shall be liable for and make good to the RailTel or other persons legally entitled thereto whenever required by the Engineer so to do, all losses, damage, costs and expenses they or any of them may incur or be put or be liable, by reason or in consequence of the operations of the contractor or of his failure in any respect.

For this purpose the tenderer will submit their strategy for providing maintenance support including the staff that will be available along with the set of spares for attending to various faults/problems during maintenance period.

48 Certificate of Completion of works

48.1 As soon as in the opinion of the Engineer the works shall have been substantially completed and shall satisfactorily passed any final test or tests that may be prescribed, the Engineer shall issue a Certificate of the completion (Provisional Acceptance Certificate) in respect of the works and period of maintenance of the works shall commence from the date of such certificate provided that the Engineer may issue such a certificate with respect to any part of the works before the completion of the whole of the works or with respect to any substantial part of the works which has been both completed to the satisfaction of the Engineer and occupied or used by the RailTel and when any such certificate is given in respect of part of the works such part shall be considered as completed and the period of the maintenance of such part shall commence from the date of such certificate.

48.2 Contractor not absolved by Provisional completion Certificate (PAC): The Certificate of completion in respect of the works referred to in sub-clause 48.1 of this clause shall not absolve the Contractor from his liability to make good any defect, imperfection, shrinkages or faults which may appear during the period of maintenance specified in the tender arising in the opinion of the Engineer from materials or workmanship not in accordance with the drawing or specifications or instructions of the Engineer, which defect, imperfections, shrinkages or faults shall upon the direction in writing of the Engineer, be amended and made good by the Contractor at his own cost; and in case of default on the part of Contractor the Engineer may employ, labour and material or appoint another Contractor to amend

and make good such defect, imperfections, shrinkages and faults and all expenses consequent thereon and incidental thereto shall be borne by the Contractor and shall be recoverable from any moneys due to him under the contract.

49. Approval only by Maintenance Certificate : No certificate other than maintenance certificate referred to in Clause 50 of the conditions shall be deemed to constitute approval of any work or other matter in respect of which it is issued or shall be taken as an admission of the due performance of the contract or any part thereof or of the accuracy of any demand made by the Contractor or of additional varied work having been ordered by the Engineer nor shall any other certificate conclude or prejudice any of the powers of the Engineers.

50. Maintenance certificate:

50.1 The contract shall not be considered as completed until a maintenance certificate (Final Acceptance Certificate) shall have been signed by the Engineer stating that the works have been completed and maintained to this satisfaction. The maintenance certificate shall be given by the Engineer upon the expiration of the period of maintenance or as soon thereafter as any work ordered during such period pursuant to clause 48.2 of these conditions shall have been completed to the satisfaction of the Engineer and full effect shall be given to this Clause notwithstanding the taking possession of or using the works or any part thereof by the RailTel.

50.2 Cessation of RailTel's Liability: The RailTel shall not be liable to the Contractor for any matter arising of or in connection with the contract of the execution of the works unless the Contractor shall have made a claim in writing in respect thereof before the issue of the Maintenance Certificate (FAC) under this clause.

50.3 Unfulfilled obligations: Notwithstanding the issue of the Maintenance Certificate the Contractor and (subject to clause 50.2) the RailTel shall remain liable for the fulfilment of any obligation incurred under the provision of the contract prior to the issue of the maintenance Certificate which remains unperformed at the time such certificate is issued and for the purposes of determining the nature and extent of any such obligations the contract shall be deemed to remain in force between the parties thereto.

51. Final payment

51.1 On the Engineer's certificate of completion in respect of the works an adjustment shall be made and the balance of account based on the Engineer or the Engineer's representative's on the accepted schedule or rates and for extra works on rates determined under Clause 39 of these conditions shall be paid to the Contractor subject always to any deduction which may be made under these presents and further subject to the Contractor having delivered to the Engineer either a full account in detail of all claims he may have on the RailTel in respect of the works or having delivered "No Claim" Certificate and the Engineer having after the receipt of such account given a certificate in writing that such claim are correct, that the whole of the works to be done under the provisions of the Contracts have been completed, that they have been inspected by him since their completion and found

to be in good and substantial order, that all properties, works and things removed, disturbed or injured in consequence of the works have been properly replaced and made good and all expenses and demands incurred by or made upon the RailTel for or in the respect of damage or good and all expenses and demands incurred by or made upon the RailTel for or in the respect of damage or good and all expenses and demands incurred by or made upon the RailTel for or in the respect of damage or loss by from kin consequence of the works, have been satisfied agreeably and in conformity with the contract.

51.2 Post payment Audit – It is an agreed term of contract that the RailTel reserves to itself the right to carry out a post-payment audit and or technical examination of the works and the final bill including all supporting vouchers, abstracts, etc., and to make a claim on the contractor for the refund any excess amount paid to him if as a result of such examination any over- payment to him is discovered to have been made in respect of any work done or alleged to have been done by him under the contract.

51.3 Refund of Performance Bank Guarantee – The Performance Bank Guarantee shall become due and shall be paid to the Contractor after the expiration of the warranty period and issue of the certificate of final acceptance of entire system, specified in the tender, provided that all the stipulations of the clause have been fulfilled by the Contractor and all claim and demands made against the RailTel for and in respect of damage or loss by, from or in consequence of the works have been finally satisfied, provided further that in the event of different maintenance periods having become applicable to different parts of the works pursuant to sub clause (i) of clause 48 of these condition, the expression “expiration of the period of warranty” shall for the purpose of this clause, be deemed to mean the expiry of the latest of such periods.

51.4 Production of vouchers etc. by the Contractor

- (i) For a contract of more than one crore of rupees, the contractor shall, whenever required, produce for examination by the Engineer any quotation, invoice, cost or other account, book of accounts, voucher, receipt letter, memorandum, paper of writing or any copy of or extract from any such document and also furnish information and returns verified in such manner as may be required in any way relating to the execution of this contract or relevant for verifying or ascertaining cost of execution of this contract (the decision of the Engineer on the question of relevancy of any documents, information or return being final and binding on the parties.) The contractor shall similarly produce vouchers, etc., if required to prove to the Engineer, that materials supplied by him, are in accordance with the specifications laid down in the contract.
- (ii) If any portion of the work in a contract of value more than one crore of rupees be carried out by the a sub -contractor or any subsidiary or allied firm or company (as per Clause 7 of the General Conditions of Contract), the Engineer shall have power to secure the book of such sub-contract or any subsidiary or allied firm or company, through the contractor, and such book shall be open to his inspection.
- (iii) The obligations imposed by sub clause (i) and (ii) above is without prejudice to the obligations of the contractor under any statute rules or orders binding on the

contractor.

- 52. Withholding and lien in respect of sums claimed** – Whenever any claim or claims for payment of a sum of money arises out of or under the contract against the contractor, the RailTel shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any, deposited by the contractor and for the purpose aforesaid, the RailTel shall be entitled to withhold the said security deposit or the security if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the contractor, the RailTel shall be entitled to withhold and have a lien to the extent of the such claimed amount or amounts referred to supra from any sum or sums found payable or which at any time thereafter may become payable to the contractor under the same contract or any other contract with this or any other RailTel or any Department of the Central Government pending finalization or adjudication of any such claim.

It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above, by the RailTel will be kept withheld or retained as such by the RailTel till the claim arising out of or under the contract is determined by the arbitrator (if the Contract is covered by the arbitration clause) or by the competent court as the case may be and that the contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to supra and duly notified as such to the contractor. For the purpose of this clause, where the contractor is a partnership firm or a limited company, the RailTel shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner/limited company, as the case may be whether in his individual capacity or otherwise.

- 52.1 Lien in respect of claims in Other Contracts** – Any sum of money due and payable to the contractor (Including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the RailTel, against any claim of this or any other RailTel or any other Department of the Central Government in respect of payment of a sum of money arising out of or under any other contract made by the contractor with this or any other Department of Central Government.

It is an agreed term of the contract that the sum of money so withheld or retained under this clause by the RailTel will be kept withheld or retained as such by the RailTel till the Claim arising out of or under any other contract is either mutually settled or determined by arbitration, if the other contract is governed by arbitration clause or by the competent court as the case may be and contractor shall have no claim for interest of money withheld or retained under this clause and duly notified as such to the contractor.

- 53. Signature on Receipts for Amounts** – Every receipt which may become payable or for any security which may become transferable to the Contractors under these presents, shall, if signed in the partnership name by any one of the partners of a Contractors firm be a good and sufficient discharge to the RailTel in respect of the

moneys or security purported to be acknowledged thereby and in the event of death of any of the Contractor partners during the pendency of the contract it is hereby expressly agreed that every receipt by any one of the surviving Contractor partners shall if so signed as aforesaid be good and sufficient discharge as aforesaid provided that nothing in this clause contained shall be deemed to prejudice or effect any claim which the RailTel may hereafter have against the legal representative of any contractor partner so dying, for or in respect of any breach of any of the conditions of the contract, provided also, that nothing in this clause contained shall be deemed to prejudice or effect the respective rights or obligations of the Contractor partners and of the legal representative of any deceased Contractor/partners.

54. LABOUR

Wages to Labour – The Contractor shall be responsible to ensure compliance with the provisions of the Minimum Wages Act, 1948 (hereinafter referred to as the “said Act”) and the Rules made there-under in respect of any employees directly or through petty contractors or sub-contractors employed by him on road construction or in building operations or in stone breaking or stone crushing for the purpose of carrying out this contract.

If in compliance with the terms of the contract, the contractor supplied any labour to be used wholly or partly under the direct orders and control of the RailTel whether in connection with any work being executed by the contractor or otherwise for the purpose of the RailTel such labour shall, for the purpose of this clause, still be deemed to be persons employed by the Contractor.

If any moneys shall as a result of any claim or any claim or application made under the said Act be directed to be paid by the RailTel, such moneys shall be deemed to be moneys payable to the RailTel by the Contractor and on failure by the Contractor to repay any moneys paid by it as aforesaid within seven days after the same shall have been demanded, the RailTel shall be entitled to recover the same form any moneys due or accruing to the contractor under this or any other Contractor with the RailTel.

- 54.1 Apprentices Act** – The Contractor shall be responsible to ensure compliance with the provisions of the Apprentices Act 1961 and the Rules and Orders issued there under from time to time in respect of apprentices directly through petty contractors or sub-contractors employed by him for purpose of carrying out the contract.

If the Contractor directly or through petty contractor or sub-contractors fails to do so, his failure will be a breach of the contract and the RailTel may, in its discretion, rescind the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation of the provisions of the Act.

- 55. Provisions of Payments of Wages Act** – The Contractor shall comply with the provisions of the Payment of Wages Act, 1936 and the rules made there under in respect of all employees directly or through petty contractors or sub-contractors

employed by him in the works. If in compliance with the terms of the contract, the contractor directly or through petty contractors or sub -contractors shall supply any labour to be used wholly or partly under the direct orders and control of the Engineer whether in connection with the works to be executed hereunder or otherwise for the purpose of the Engineer such labour shall nevertheless be deemed to comprise persons employed by the contractor, and any moneys which may be ordered to be paid by the Engineer shall be deemed to be moneys payable by the Engineer on moneys due to the contractor in terms of the contract. The RailTel shall be entitled to deduct from any moneys due to the contractor (Whether under this contract or any other contract all moneys paid or payable by the RailTel by way of compensation of aforesaid or for costs of expenses in connection with any claim thereto and the decision of the Engineer upon any question arising out of the effect or force of this clause shall be final and binding upon the contractor.

55.1 Provision of Contract Labour (Regulation and Abolition) Act 1970

- (1) The Contractor shall comply with the provision of the Contract Labour (Regulation and Abolition) Act 1970 and the Contract Labour (Regulation and Abolition) Act, Central Rules 1971 as modified from time to time, whenever applicable and shall also indemnify the RailTel from and against any claims under the aforesaid Act and the Rules
- (2) The Contractor shall obtain a valid license under the aforesaid Act as modified from time to time before the commencement of the work and continue to have a valid license until the completion of the work. Any failure to fulfil this requirement shall attract the penal provision of the Contract arising out of the resultant non-execution of the work.
- (3) The Contractor shall pay to the labour employed by him directly or through sub-contractors the wages as per provisions of the aforesaid Act and the Rules wherever applicable. The Contractor shall notwithstanding the provisions of the contract to the contrary, cause to be paid the wages to labour indirectly engaged on the work including any engaged by his sub- contractors in connection with the said work, as if the labour had been immediately employed by him.
- (4) In respect of all labour directly or indirectly employed in the work for performance of the contractor's part of the contract the contractor shall comply with or cause to be complied with the provisions of the aforesaid Act and the Rules wherever applicable.
- (5) In every case in which, by virtue of the provisions of the aforesaid Act or the Rules, the RailTel is obliged to pay any amount of wages to a workmen employed by the contractor or his sub-contractor in execution of the work or to incur any expenditure in providing welfare and health amenities required to be provided under the aforesaid Act and the Rules or to incur any expenditure in providing welfare and health amenities required to be provided under the aforesaid Act the Rules or to incur any expenditure on account of the contingent liability of the RailTel due to contractor's failure to fulfill his statutory obligations under the aforesaid Act or the Rules the RailTel will recover from the contractor,

the amount of wages so paid or the amount of expenditure so incurred, and without prejudice to the rights of the RailTel under section 20, sub-section (2) and section 2 sub -section (4) of the aforesaid Act, the RailTel shall be at liberty to recover such amount or part thereof by deducting it from the security deposit and/or from any sum due by the RailTel to the contractor whether under the contract or otherwise. The RailTel shall not be bound to contest any claim made against it under sub-section (1) of section 20 and sub-section (4) of section 21 of the aforesaid Act except on the written request of the contractor and upon his giving to the RailTel full security for all costs for which the RailTel might become liable in contesting such claim. The decision of the RailTel regarding the amount actually recoverable from the contractor as stated above, shall be final and binding on the contractor.

- 56. Reporting of Accidents to Labour** – The Contractor shall be responsible for the safety of all employees directly or through petty contractors or sub- contractors employed by him on the works and shall report serious accidents to any of them however and wherever occurring on the works to the Engineer or the Engineer’s Representative and shall make every arrangement to render all possible assistance.
- 57. Provisions of Workmen’s Compensation Act** – In every case in which by virtue of the provision of Section 12 sub-section (1) of the Workmen’s Compensation Act, 1923, RailTel is obliged to pay compensation to a workman directly or through the petty Contractor employed by the Contractor or sub-contractor in executing the work, RailTel will recover from the contractor the amount of the compensation so paid, and, without prejudice to the right of RailTel under Section 12 sub-section (2) of the said Act. RailTel shall be at liberty to recover such amount or any part thereof by deducting it from the security deposit or from any sum due by RailTel to the Contractor whether under these conditions or otherwise, RailTel shall not be bound to contest any claim made against it under Section 12, sub-section (1) of the said Act except on the written request of the Contractor and upon his giving to RailTel full security for all costs for which RailTel might become liable in consequence of contesting such claim.

57.1 Provision of Mines Act – Deleted

- 58. RailTel not to provide quarters for Contractor:** – No quarters shall be provided by the RailTel for the accommodation of the contractor or any of his staff employed on the work.
- 59. Labour camps**
- (1) The Contractor shall at his own expense make adequate arrangements for the housing, supply of drinking water and provision of latrines and urinals for his staff and workman directly or through the petty contractors or sub- contractors and for temporary crèche (Bal-Mandir) where 50 or more women are employed at a time. Suitable sites on Railway/RailTel land, if available, may be allotted to the Contractor for the erection of labour camps either free of charge or on such terms and conditions that may be prescribed by the RailTel. All camp sites shall be maintained in clean and sanitary conditions by the Contractor at his own cost.

- (2) **Compliance to Rules for Employment of Labour** – The Contractor(s) shall conform to all laws, bye-laws, rules and regulations for the time being in force pertaining to the employment of local or imported labour and shall take all necessary precautions to ensure and preserve the health and safety of all staff employed directly or through petty Contractors or sub -contractors on the works.
- (3) **Preservation of Peace** – The Contractor shall take requisite precautions and use his best endeavours to prevent any riotous or unlawful behaviour by or amongst his workmen and others employed directly or through petty contractor or sub-contractors on the works and preserve the health and safety of all staff employed directly or through petty Contractors or sub -contractors on the works.
- (4) **Sanitary Arrangement** – The contractor shall obey all sanitary rules and carry out all sanitary measures that may time to time be prescribed by the RailTel Medical Authority and permit inspection of all sanitary arrangements at all times by the Engineer, the Engineer's Representative or the Medical Staff of the RailTel. Should the Contractor fail to make adequate sanitary arrangements, these will be provided by the RailTel and the cost therefore recovered from the contractor.
- (5) **Outbreak of Infectious Disease** – The Contractor shall remove from his camp such labour and their families as refuse protective inoculation and vaccination when called upon to do so by the Engineer or the Engineer's Representative on the advice of the Railway/RailTel Medical Authority. Should Cholera, Plague or other infectious disease break out, the Contractor shall burn the huts, beddings, clothes and other belongings of or used by the infected parties and promptly erect new huts on healthy sites as required by the engineer, failing which within the time specified in the Engineer's requisition, the work may be done by the RailTel and the cost therefore recovered from the Contractor.
- (6) **Treatment of Contractor's staff in Railway Hospitals** – Deleted
- (7) **Medical facilities at site** – The contractor shall provide medical facilities at the site as may be prescribed by the engineer on the advice of the medical authority in relation to the strength of the contractor's resident staff, and workmen.
- (8) **Use of Intoxicants** – The sale of ardent spirits or other intoxicating beverages upon the work or in any of the buildings, encampments or tenements owned, occupied by or within the control of the Contractor or any of his employees shall be forbidden and the Contractor shall exercise his influence and authority to the utmost extent to secure strict compliance with this condition.
- (9) **Non-employment of Female Labour** – The contractor shall see that the employment of female labour in cantonment areas, particularly in the neighborhood of soldier's barracks, should be avoided as far as possible.
- (10) **Restrictions on the employment of retired Engineers of Railway services**

within two years of their Retirement– The contractor shall not, if he is a retired government engineer of Gazetted rank, who has not completed two years from the date of retirement, in connection with his contract in any manner whatsoever without obtaining prior permission of the President and if the contractor is found to have contravened this provision, it will constitute a breach of contract Administration will be entitled to terminate the contract at the risk and cost of the contractor and forfeit his security deposit.

60. Non-Employment of Labourers below the age of 15

- (1) The Contractor shall not employ children below the age of 15 as labourers directly or through petty contractors or sub-contractors for the execution of work.
- (2) **Medical Certificate of Fitness for Labour** – It is agreed that the contractor shall not employ a person above 15 and below 19 years of age for the purpose of execution of work under this contract unless a medical certificate of fitness in the prescribed form is granted to him by a certifying surgeon certifying that he is fit to work as an adult is obtained and kept in the custody of the contractor or a person nominated by him in this behalf and the person carries with him, while at work, a token giving a reference to such certificate. It is further agreed that the responsibility for having the adolescent examined medically at the time of appointment or periodically till he attains the age of 19 years shall devolve entirely on the contractor and all the expense to be incurred on this account shall be borne by him and no fee shall be charged from the adolescent or his parent for such medical examination.
- (3) **Period of Validity of Medical Fitness Certificate** - A certificate of fitness granted or renewed for the above said purposes shall be valid only for a period of one year at a time. The certifying surgeon shall revoke a certificate granted or renewed if in his opinion the holder of it is, no longer fit for work in the capacity stated therein. Where a certifying surgeon refuses to grant or renew a certificate or revoke a certificate, he shall, if so required by the person concerned, state his reasons in writing for doing so.
- (4) **Medical Re-examination of Labourer** - Where any official appointed in this behalf by the Ministry of Labour is of the opinion that any person employed in connection with the execution of any work under this contract in the age group 15-19 years is without a certificate of fitness or is having a certificate of fitness but no longer fit to work in the capacity stated in the certificate, he may serve on the Contractor, or on the person nominated by him in this regard, a notice requiring that such person shall be examined by a certifying surgeon and such person shall not, if the concerned official so directs, be employed or permitted to do any work under this contract unless he has been medically examined and certified that he has been granted a certificate of fitness or a fresh certificate or a fresh certificate of fitness, as the case may be.

61. DETERMINATION OF CONTRACT

- 61.1 **Right of RailTel to determine the contract:** The RailTel shall be entitled to determine and terminate the contract at any time, should in the RailTel's opinion, the cessation of work become necessary owing to paucity of funds or from any other cause whatever, in which case the value of approved materials at site and of work done to date by the Contractor will be paid for in full at the rate specified in the contract. Notice in writing from the RailTel of such determination and the reasons therefore shall be conclusive evidence thereof.

61.2 Payment on determination of contract: Should the contract be determined under sub-clause (1) of this clause and the Contractor claims payment for expenditure incurred by him in the expectation of completing the whole of the work, the RailTel shall admit and consider such claims as are deemed reasonable and are supported by vouchers to the satisfactions of the Engineer. The RailTel's decision on the necessity and propriety of such expenditure shall be final and conclusive.

61.3 The contractor shall have no claim to any payment of compensation or otherwise, howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of determination of contract.

62. TERMINATION OF CONTRACT OWING TO DEFAULT OF CONTRACTOR:

62.1 If the Contractor should :

- (i) become bankrupt or insolvent, or
- (ii) make an arrangement with or assignment in favour of his creditors, or
- (iii) being a Company or Corporation, go into liquidation (other than voluntary), liquidation for the purpose of amalgamation or reconstruction, or
- (iv) have an execution levied on his goods or property on the works, or assign the contract or any part thereof otherwise than as provided in clause-21 of SCC, or
- (v) have an execution levied on his goods or property on the works, or assign the contract or any part thereof otherwise than as provided in clause-21 of SCC, or
- (vi) persistently disregard the instructions of the RailTel's Engineer with regard to work quality or progress during execution of work or contravene any provision of the contract, or
- (viii) fail to adhere to the agreed programme of work by a margin of 10% of the Stipulated period, or fail to remove materials from the site or to pull down and replace the work after receiving from the Engineer's notice to the effect that the said materials or works have been condemned or rejected, or
- (ix) fail to take steps to employ competent or additional staff and labour as required under clause 7 of SCC (Chapter - 3 Section-II), or
- (x) fail to afford the Engineer or Engineer's representative proper facilities for inspecting the works or any part thereof as required under clause 28, or
- (xi) promise offer or give any bribe, commission, gift or advantage either himself or through his partner, agent or servant to any officer or employee of RailTel or any person on his or on their behalf in relation to the execution of this or any other contract with the RailTel,
- (xii) At any time after the tender relating to the contract has been signed and submitted by the contractor, being a partnership firm admit as one of its partners or employ under it or being an incorporated company elect or nominate or allow to act as one of its directors or employ under it in any capacity whatsoever any retired engineer of the gazetted rank or any other retired gazetted officer working before his retirement, whether in the executive or administrative capacity, or whether holding any pensionable post or not, in the Engineering Department of the Railways for the time being owned and administered by the President of India before the expiry of two years from the date of retirement from the said service of such Engineer or Officer unless such Engineer or Officer has obtained permission from the President of India or any officer duly authorized by him in this behalf to become a partner or a director or to take employment under the contract as the

case may be, or

(B) Fail to give at time of submitting the said tender:

- (a) The correct information as to the date of retirement of such retired engineer or retired officer from the said service, or as to whether any such retired engineer or retired officer was under the employment of the contractor at the time of submitting the said tender, or
- (b) the correct information as to such engineers or officers obtaining permission to take employment under the contractor, or
- (c) being a partnership firm the correct information as to, whether any of its partners was such a retired engineer or retired officer, or
- (d) being an incorporated company, the correct information as to, whether any of its directors was such a retired engineer or retired officer, or
- (e) being such a retired engineer or retired officer suppress and not disclose at the time of submitting the said tender the fact of his being such a retired engineer or a retired officer or make at the time of submitting the said tender a wrong statement in relation to his obtaining permission to take the contract or if the contractor be a partnership firm or an incorporated company to be a partner or director of such firm or company as the case may be or to seek employment under the contractor. Then and in any of these said clauses, the Engineer on behalf of the RailTel may serve the Contractor with a notice in writing to that effect and if the Contractor does not, within 7 days after the delivery to him of such notice, proceed to make good his default in so far as the same is capable of being made good and carry on the work or comply with such directions as aforesaid to the entire satisfaction of the Engineer, the RailTel shall be entitled after giving 48 hours notice in writing under the hand of the Engineer to rescind the contract as a whole or in part or parts (as may be specified in such notice) and adopt either or both the following courses: A final termination notice will be issued by RailTel after expiry of 48 hrs notice.

63

**RIGHT OF RAILTEL AFTER TERMINATION OF CONTRACT
OWING TO DEFAULT OF CONTRACTOR:**

In the event of any or several of the courses, referred in clause 62.1 above, being adopted:

- (a) The Contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any commitments or made any advances on account of or with a view to the execution of the works or the performance of the contract and Contractor shall not be entitled to recover or be paid any sum for any works thereto not actually performed under the contract, unless or until the Engineer shall have certified the performance of such work and the value payable in respect thereof and the Contractor shall only be entitled to be paid the value so certified.
- (c) The Engineer or Engineer's Representative shall be entitled to take possession of any materials, tools, implements, machinery or buildings on the works or on the property on which these are being or ought to have been executed, and to retain the employ the same in the further execution of the works or any part thereof until the completion of the works without the Contractor

being entitled to any compensation for the use and employment thereof or for wear and tear or destruction thereof.

(c) The Engineer shall, as soon as may be practicable after removal of the Contractor fix and determine expert or by or after reference to the parties or after such investigation or enquiries as he may consider fit to make or institute and shall certify what amount (if any) has at the time of termination of the contract been reasonably earned by or would reasonably accrue to the Contractor in respect of the work then actually done by him under the contract what was the value of any unused or partially used materials, any constructional plants and any temporary works upon the site. The legitimate amount due to the contractor after making necessary deductions and certified by the Engineer should be released expeditiously.

64 Matters finally determined by the RailTel:

All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract shall be referred by the contractor to the RailTel and the RailTel shall within 45 days receipt of the Contractor's representation make and notify decisions on all matters referred to by the contractor in writing provided that matters for which provision has been made in clause 8, 18, 22.5, 29, 43.2, 45(a), 55, 55.1(5), 57, 61.1, 61.2 and 62.1 of General Condition of Contract or in any clause of the Special Conditions of the Contract shall be deemed as 'excepted matters' and decisions of the RailTel's authority, thereon shall be final and binding on the contractor provided further that 'excepted matters' shall stand specifically excluded from the purview of the arbitration clause and not be referred to arbitration.

65 SETTLEMENT OF DISPUTE AND ARBITRATION

- 65.1 Any dispute or difference whatsoever arising between the parties out of or relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be settled by a sole arbitrator in accordance with provisions contained in Arbitration and
- 65.2 Conciliation Act, 1996 as amended and the award made in pursuance thereof shall be binding on the parties. The venue of such arbitration or proceedings thereof shall be New Delhi.
- 65.3 All arbitration proceedings shall be conducted in English. Resources against any Arbitral award so rendered may be entered into court having jurisdiction or application may be made to such court for the order of enforcement as the case may be.
- 65.4 The Arbitral Tribunal shall consist of the sole Arbitrator if the value of claim is up to Rs. 10 Lakhs. The arbitrator will be appointed by the Managing Director of RailTel Corporation of India Ltd. If the value of claim or amount under dispute is more than Rs. 10 Lakhs, the matter shall be referred to the adjudication of arbitral council. Managing Director/RailTel shall furnish a panel of three names to the contractor, out of which the contractor will recommend one name to be his nominee and then Managing Director/RailTel shall appoint out of the panel, one name as RailTel's nominee and these two arbitrators with mutual consent appoint a third arbitrator who shall act as deciding. The award of the sole arbitrator or the Arbitral

council, as the case may be, shall be final and binding on both the parties, i.e. Contractor and RailTel Corporation of India Ltd.

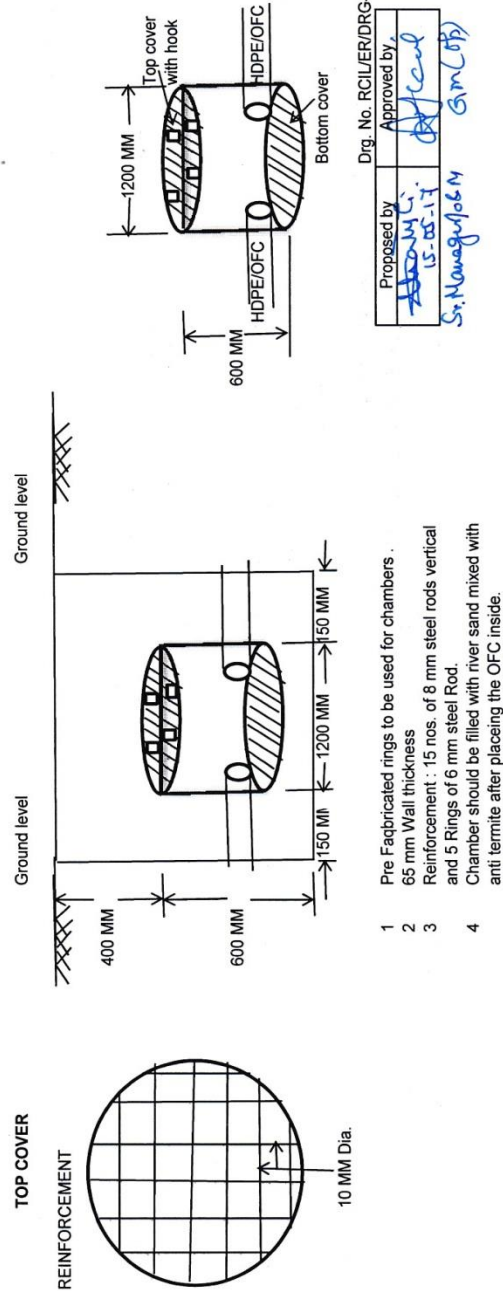
- 65.5 Each of the parties agree that no withstanding that the matter may be referred to Arbitrator as provided therein, the parties shall nevertheless pending the resolution of the controversy or disagreement continue to fulfil their obligation under this Agreement so far as they are reasonably able to do so.
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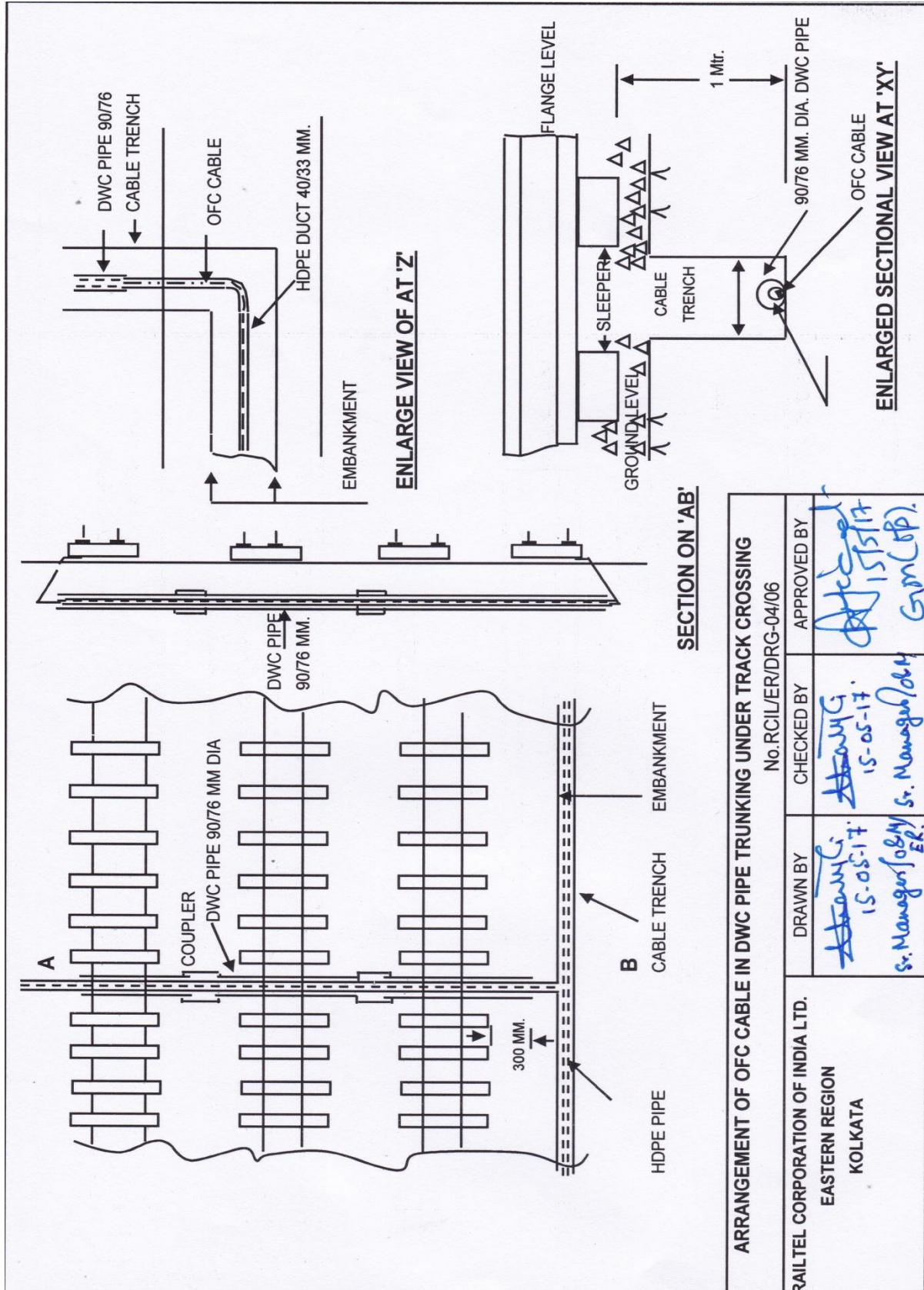


SECTION - IV
CHAPTER 1
DRAWINGS

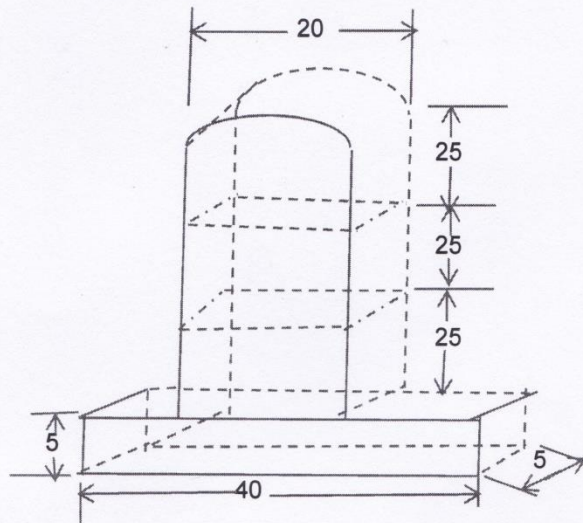
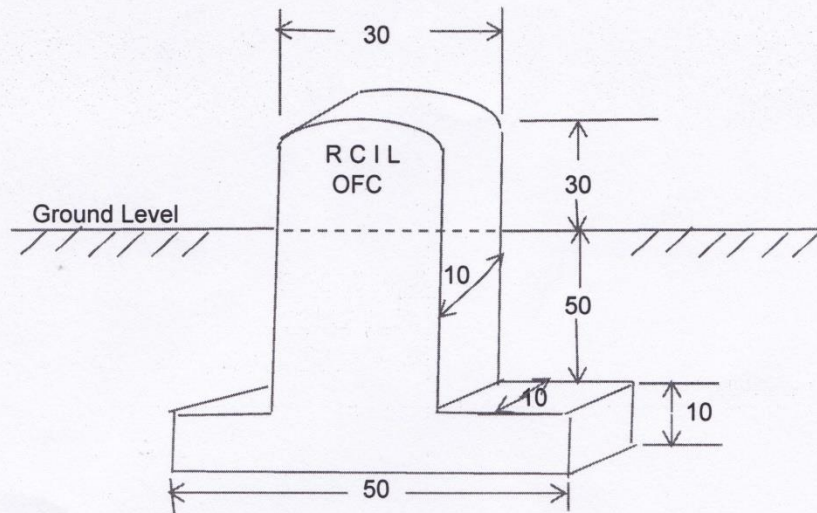
Annexure- 3.2

RailTel Corporation of India Ltd., Easter Region , Kolkata.
(Diagram of construction of Loop/Splice Chamber)





ANNEXURE-3.1



REINFORCEMENT 6 MM DIA

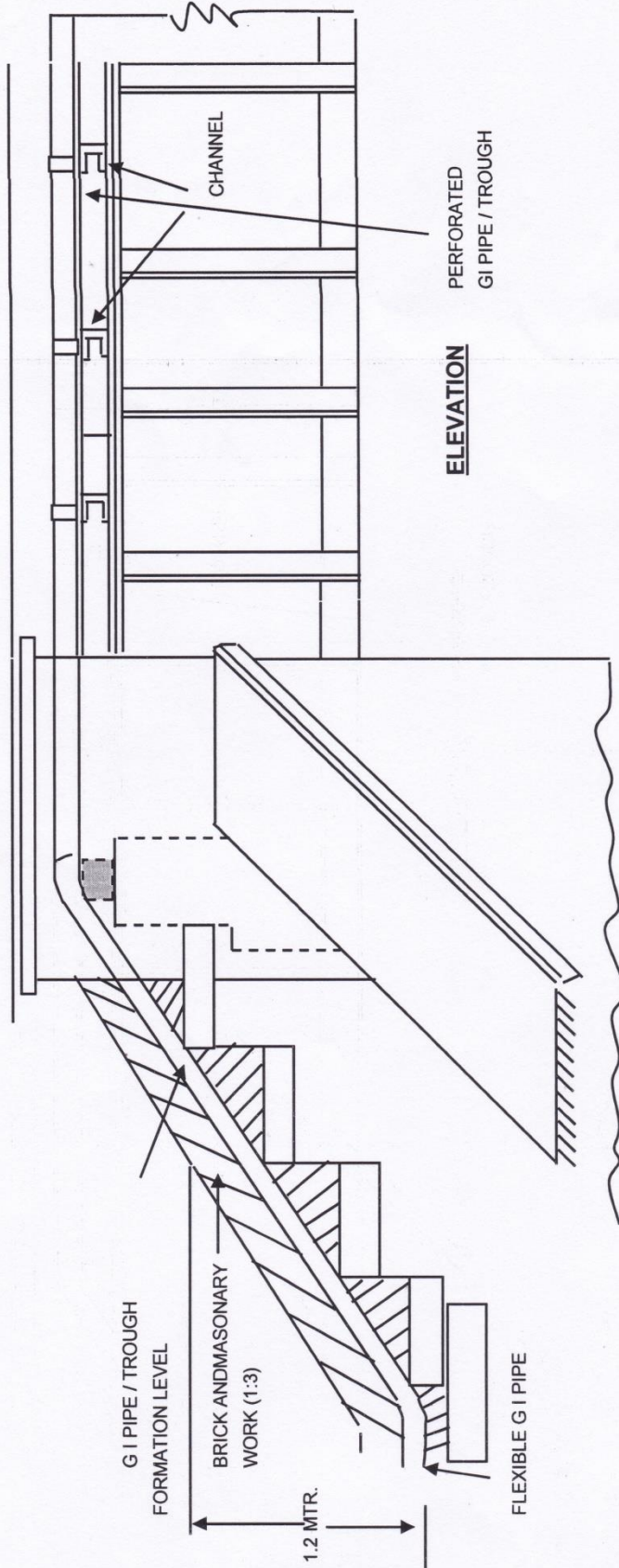
NOTE :

- 1 ALL DIMENSIONS ARE IN CM
- 2 ALL SIDES ABOVE GROUND TO BE PAINTED WITH RED ENAMELED PAINT TO IS SPECIFICATION WITH TWO COATS AT PLACES OTHER THAN OFC JOINTS.
- 3 ALL SIDES ABOVE GROUND TO BE PAINTED WITH GREEN ENAMELED PAINT TO IS SPECIFICATION WITH TWO COATS AT OFC JOINTS .
- 4 RCIL OFC TO BE ENGRAVED .
- 5 ENGRAVED PORTION TO BE PAINTED WITH WHITE ENAMELED PAINT TO IS SPECIFICATION WITH TWO COATS.

RCC CABLE ROUTE MARKER

NO. RCIL/ER/DRG-01/06

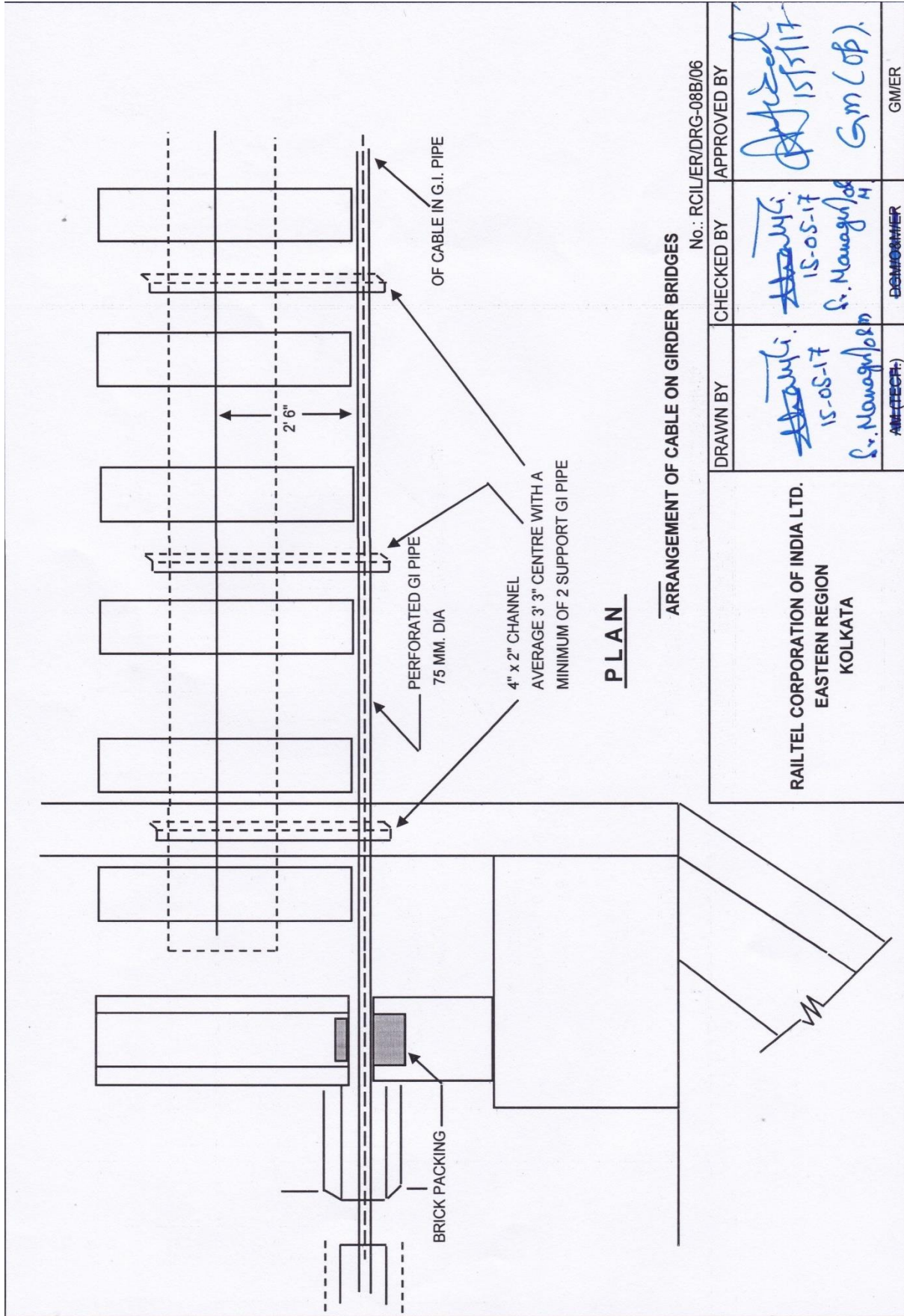
RAILTEL CORPORATION OF INDIA LTD.	DRAWN BY	CHECKED BY	APPROVED BY
EASTERN REGION	<i>[Signature]</i> 15-05-17 Sr. Manager & M/SA	<i>[Signature]</i> 15-05-17	<i>[Signature]</i> 15-05-17 Am(OP)
KOLKATA			

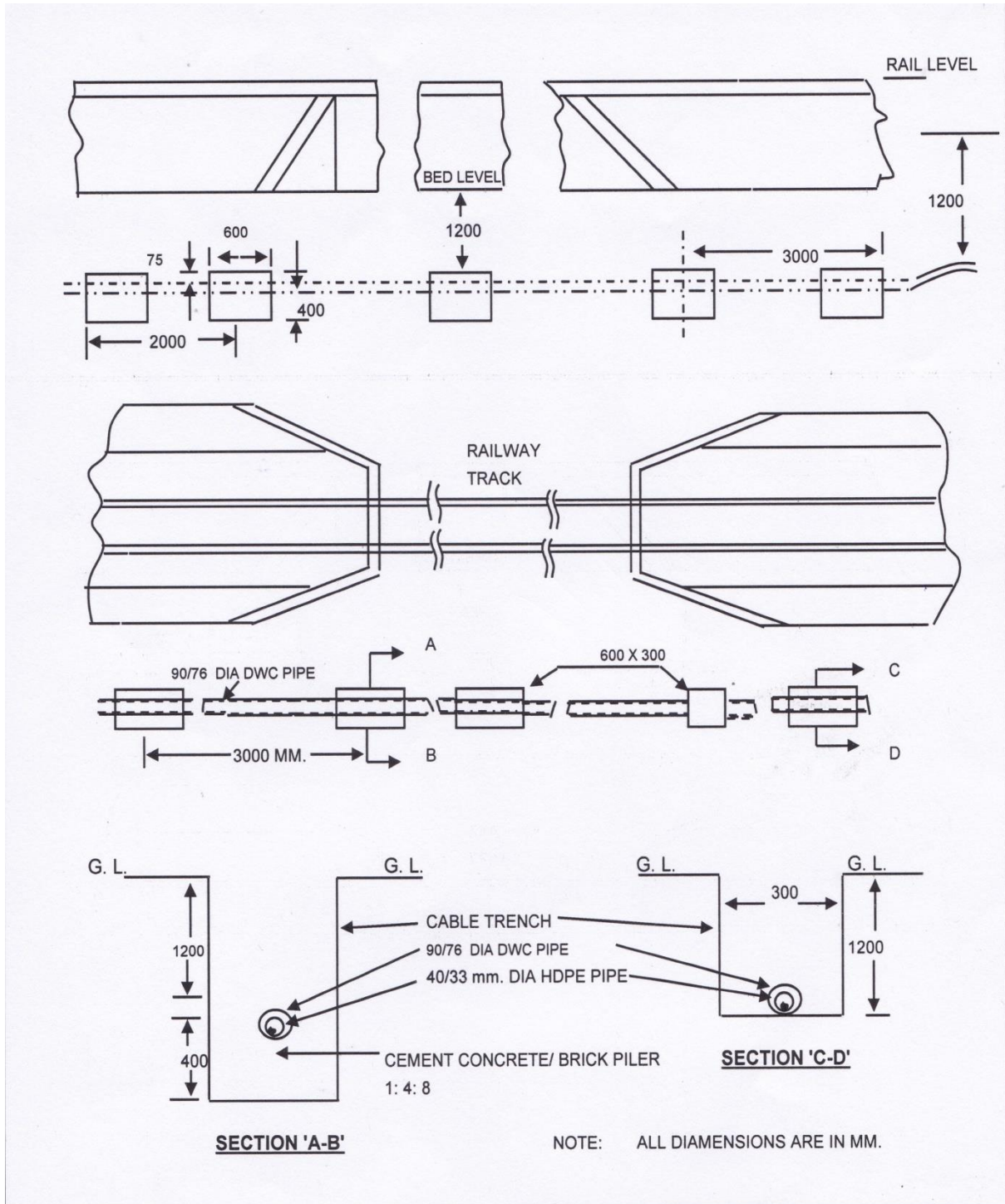


ARRANGEMENT OF CABLE ON GIRDER BRIDGES

No.: RCIL/ER/DRG-08A/06

RAILTEL CORPORATION OF INDIA LTD. EASTERN REGION KOLKATA	DRAWN BY <i>Manu</i> 15-05-17 S. Manu/08M	CHECKED BY <i>Manu</i> 15-05-17 S. Manu/08M	APPROVED BY <i>Manu</i> 15/5/17 Gm (op)
	AMTECH	DGM/O&M/ER	GM/ER

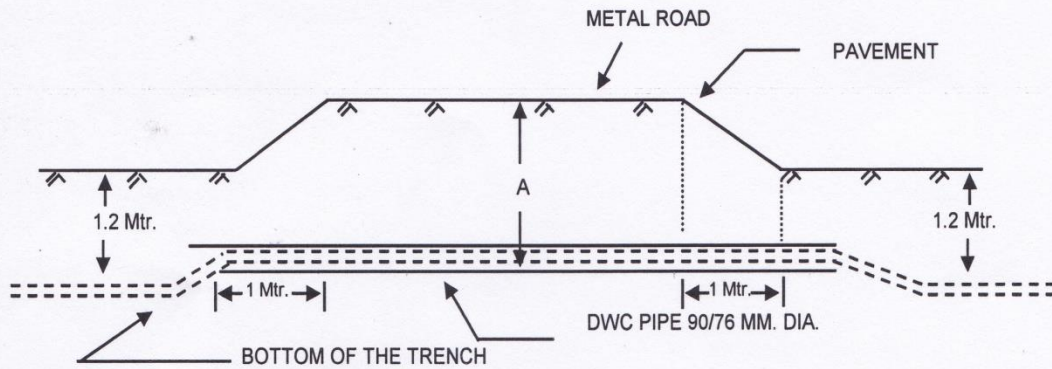




LAYING OF CABLE BELOW CULVERTS IN DWC PIPE

No.: RCIL/ER/DRG-06/06

	DRAWN BY	CHECKED BY	APPROVED BY
RAILTEL CORPORATION OF INDIA LTD. EASTERN REGION KOLKATA	<i>[Signature]</i> 15-05-17 S. Manager/obm	<i>[Signature]</i> 15-05-17 S. Manager/obm	<i>[Signature]</i> 15/5/17 Gm(OP)



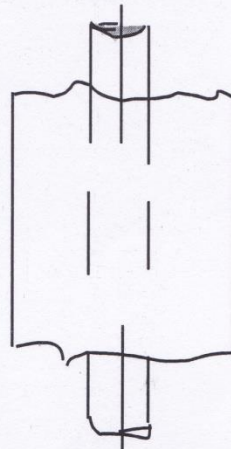
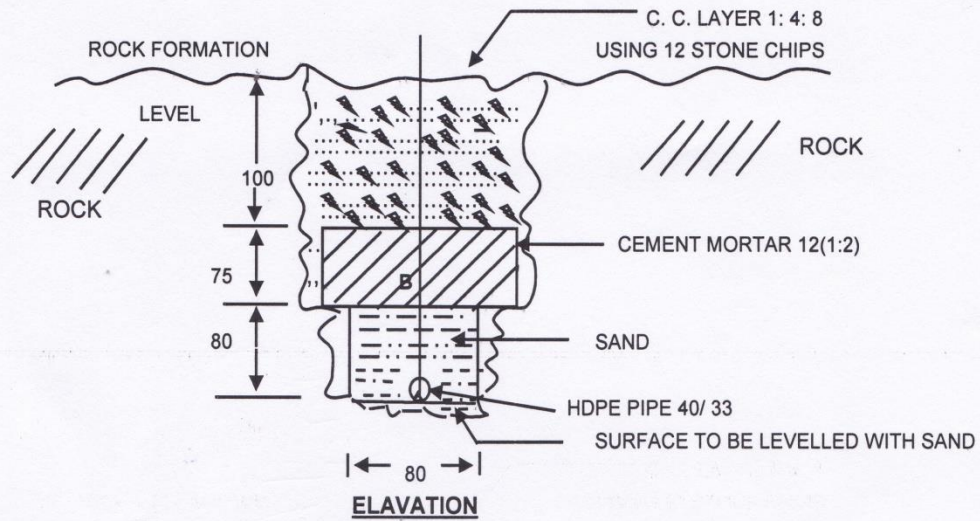
NOTE:

- 1 A = DEPTH WILL BE 1.2 MTR.
OR
AS DECIDED BY ENGINEER IN CHARGE
AS PER SITE CONDITION.
- 2 LENGTH OF THE DWC PIPE SHALL EXTENDED BY
1 MTR. BEYOND ROAD EDGES.

ARRANGEMENT OF DWC PIPE TRUNKING UNDER METAL ROAD

No.RCIL/ER/DRG-03/06

	DRAWN BY	CHECKED BY	APPROVED BY
RAILTEL CORPORATION OF INDIA LTD. EASTERN REGION KOLKATA	<i>[Signature]</i> 15-05-17 Sr. Manager/O&M	<i>[Signature]</i> 15-05-17 Sr. Manager/O&M/ER	<i>[Signature]</i> 15/5/17



PLAN WITH TOP BRICK REMOVED

B : BRICK SECOND CLASS

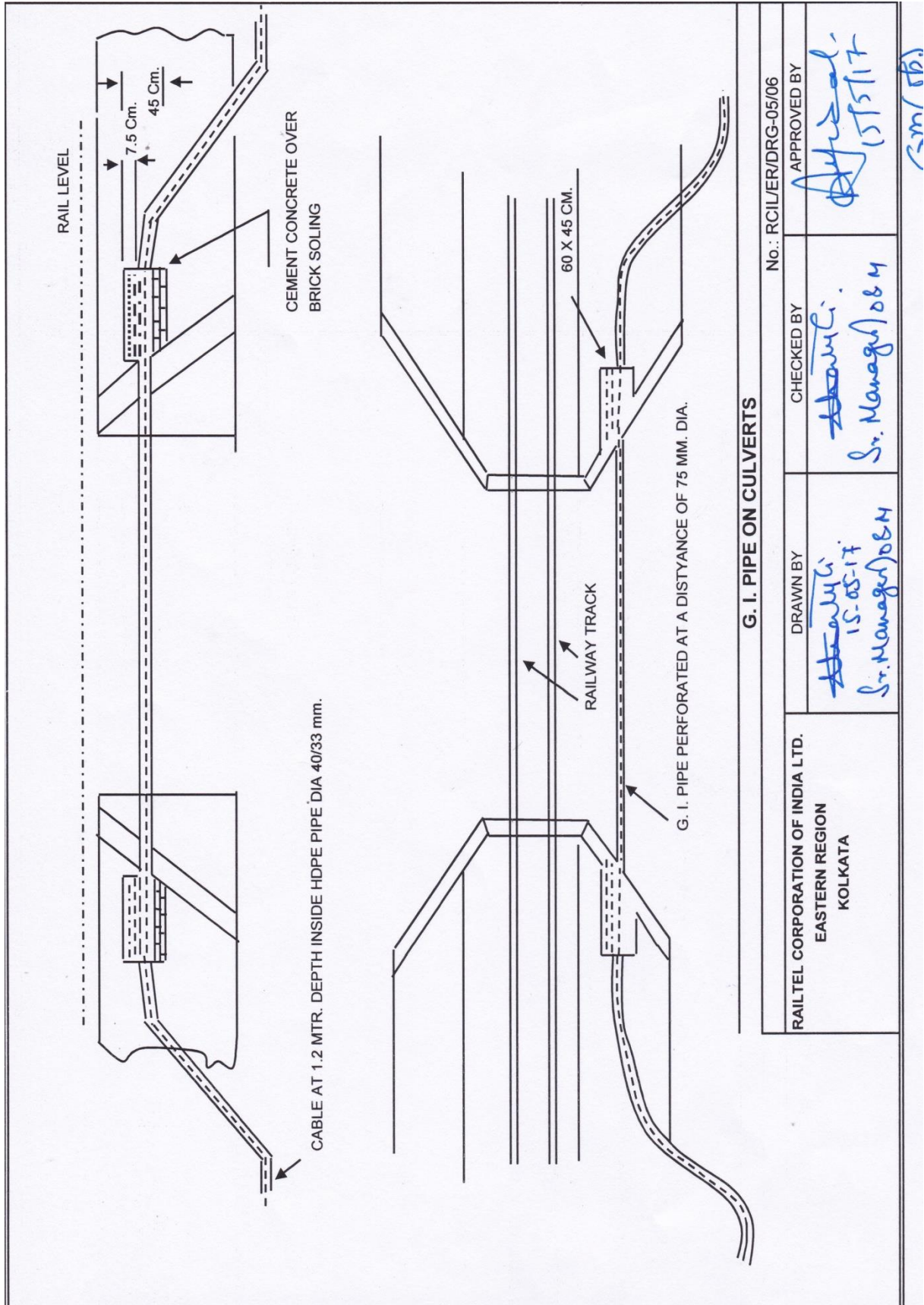
NOTE :

- 1 BOTTOM OF THE CHANNEL SHALL BE FILLED WITH SAND TO LEVEL UNEVEN SURFACE.
- 2 SLOP SHALL BE SMOOTHLY SHAPED AND PLASTERED (1:3)
- 3 ALL DIMENSIONS ARE IN MM.

CHASE CUTTING IN HARD ROCKY AREA

No.: RCIL/ER/DRG-07/06

	DRAWN BY	CHECKED BY	APPROVED BY
RAILTEL CORPORATION OF INDIA LTD. EASTERN REGION KOLKATA	<i>[Signature]</i> 15-05-17 Sr. Manager/O&M	<i>[Signature]</i> 15-05-17 Sr. Manager/O&M	<i>[Signature]</i> Gm(Cop) 15/5/17



SECTION – V

CHAPTER – 1

TECHNICAL SPECIFICATION AND INSTRUCTIONS FOR TRENCHING AND LAYING OF OPTICAL FIBRE CABLE AND TELECOM CABLE:

2.1 SCOPE:

This chapter deals with the specifications under which the various work for trenching & laying of optical fibre cable coming under the purview of the contract are to be executed by the contractor.

2.2 SUPPLY OF ROUTE PLAN:

Approved Cable Route plan and jointing schedule for mid section splicing of cable will be prepared and supplied by the RailTel This shall give a preliminary idea of the number & locations and the quantities and type of various equipment to be fixed, wired and Commissioned.

2.3 INSTRUCTIONS FOR EXCAVATION & BACK FILLING OF TRENCHES

2.3.1 The Representative of Engineer In-charge of the work will mark the route of the cable in white chalk or lime as per the tapping and route plan and the instructions given to him by the Engineer, notwithstanding the cable route shown in the tapping and route plan to meet the requirement of local conditions at site, if any and as required shall be taken by the contractor to be final. The contractor shall be present at the time of marking and he shall furnish to the Engineer's representative required quantities of lime, rope, labour etc. for carrying out this work. The marking will be given on the track side of the trench at a distance approximately one meter away from the centre line of the trench. In the difficult terrains such as water-logged areas, the position of the cable route will be specified by off sets from the centre line of the nearest track.

2.3.2 Trenches for Telecom cable shall be dug to a depth of 1.2 meters. The width of the trench shall be adequate at the bottom to accommodate cables and their protection. Normally width of approx. 250-300mm at the bottom is sufficient. In places where underground pipes, electric main etc. come in the way, trenches deeper than 1.2 meter shall be dug accessory and RCC/GI/DWC pipes shall be placed to protect the optical fibre cables.

2.3.3 Metalled, macadamized, concrete and stone paved roads shall also be cut to a depth of 1.2 meter. The cable shall be laid through RCC/GI /DWC pipe as per section-III Drg. The road surface shall be restored to original.

2.3.4 Wherever it is not possible to dig trench up to 1.2 meter depth due to site conditions, specific approval of site engineer / engineer's representative should be taken before digging trenches of lesser depth. Similarly where digging of trench for more than 1.2 meter depth is required due to site conditions, specific approval of site engineer / engineer's representative should be taken before commencing the work. In both cases prorata payments for the items of schedule shall be made. The cable in these trenches shall be protected by providing second class bricks width wise as per instructions of site engineer.

2.3.5 The bottom of the trench where the cable is to be laid shall be free from any stones. The bottom of the trench shall be horizontal and shall in no case be undulating. When the cable bed changes from solid to soft surface or from the bridge to soft soil, tamped fill at the transition point shall be provided so that cable is not pressed against the edge of a hard surface.

2.3.6 The brick protection shall be provided for 6Qd cable and also for other telecom cables wherever required as instructed by the engineer-in-charge .The contractor shall arrange supply and distribution of second class bricks of standard size at site along the excavated trenches and after uniformly covering the cable laid in the trenches by stone-free sieved soil up to 50 mm height above the cable. he shall arrange to place the bricks flat and position them breadth wise so that on an average 8/9 (eight/nine) bricks shall be laid in a meter length wherever required.

NOTE: Basically the HDPE duct is to be laid into the ground in a depth of 1200 mm or at the bottom of the trench. 6Qd cable shall be laid after 200 mm back filling i.e. at a depth of 1000mm, followed by bricks protection/ other type of protection arrangement wherever required.

2.3.7 The backfilling of trenches shall be done by tamping and consolidating the excavated soil in layers of 15-20 cm at a time. All the soil that is excavated shall be put back to the trench and care shall be taken in consolidation to ensure that the back filling does not suffer any sinkage in monsoon.

2.3.8 If under unavoidable circumstances, the excavation is to be done between the tracks or between OHE foundation and track, it shall be done to the full depth just before laying the cables and in the presence of the Engineer's representative so as to ensure the safety of train operations.

2.3.9 Wherever the Engineer's representative considers it necessary to adopt shoring, the Contractor will be required to adopt shoring for which the Contractor shall have

sufficient quantities of shoring material on hand as per RDSO Drawing No. TC 35003. The shoring shall invariably be carried out in case of loose soil or banks made of cinders and ashes.

2.3.10 Where the direction of the trench has to change, it should be done in a gentle curve of not less than one meter radius and not at sharp angles.

2.3.11 While crossing tracks and laying over bridges & culverts, the engineers representative shall be present. The date and time of such works shall be communicated to concerned telecom supervisor of the Railways and adequate precautions, as advised by them, have to be taken.

2.4 TRACK CROSSING

All cable crossings across railway tracks shall be done in G.I. pipes (100 mm)/DWC pipe 90/76 mm, threading the cable through these pipes. The contractor shall do the trenching to the required depth wherever necessary such as approaches to track crossing and the length in between the adjacent tracks. Two nylon rope of suitable strength shall be threaded through G.I. pipes/DWC pipe, one to pull the cable and one for future use. The arrangement of cable and G.I. Pipe trucking under Track crossings has been shown in Drg. No. RCIL/ER/DRG-04/06.

2.5 ROAD CROSSING

2.5.1 When crossing road ways, it is necessary to lay the cables in such a manner as to avoid the necessity of handling the cable sharply and minimize excavation of road surface as far as possible. Where cable is laid in surfaced trucking, the trucking alignment should be curved down to the pipes and proper brick or concrete joint should be made between trucking and pipe.

2.5.2 The crossing of main roads often involves difficulties especially if traffic is heavy, precautions to avoid accidents to workmen, pedestrians and vehicles should be taken. On minor roads, which can be temporarily closed to traffic, it is possible to cross the entire width of the road and open up. Pipes should be installed quickly in the cutting which is then filled in there by reducing to a minimum time for which the road is closed.

2.5.3 Some roadways which are broad may be opened for half their width, allowing the other half for use of traffic. Pipes are laid trench filled in the first half and the other half opened up after the first half is opened for the traffic. Pipes laid in the second half is linked with those laid in the first half. G.I. pipes/DWC pipe shall be used for road crossings. In all cases pipes should be laid at a depth of 1.2 meter, below the formation level or lower as may be required.

2.5.4 Whenever a cable is laid across an important road particularly one with a special surface it is necessary to provide for future expansion. The following methods may be adopted. (a) Separate pipes shall be laid for separate cable/HDPE duct. Two length of G.I. wire 10 SWG shall be used as lead wire. Two such lengths of

G.I. wire shall be laid through the pipe. One wire shall be used for leading in the cable & the other wire shall be kept with suitable overlay to enable cable pulled out at later stage, if required.

2.5.5 At busy road crossings, trenching should be done in nights with appropriate protection and road warnings to road users.

2.5.6 The tenderer shall be responsible for compliance to applicable laws of the land and registration/approval from statutory authority, if required.

2.6 CABLE OVER STEEL / GIRDER BRIDGES:

2.6.1 Separate DWC/GI pipe shall be provided on Girder Bridges to lay OFC.

2.6.2 The Fibre optic cable on steel girder bridges shall be laid inside RCC/GI/DWC pipe to be effectively secured as per the drawing and DWC duct at both ends of bridges shall be protected.

2.6.3 When laying cable on long bridges, the question of longitudinal expansion caused by temperature differences should be taken into consideration and suitable cable loops should be provided at the pillars of the bridge. The cable should also be laid sinuously inside the trough.

2.6.4 The laying of the cable on the bridges is to be done with much care and planning. It is necessary that the cable drum to be laid on the bridge is inspected and tested thoroughly so that damaged cable is not installed.

2.7 Cable over CULVERTS:

2.7.1 Wherever possible the cable shall be laid under the bed of the culvert through DWC/G.I./RCC pipes as per sketch No. RCIL/ER/DRG-06A/06. Similar arrangement shall be provided for taking the cable in water logged areas and drains.

2.7.2 In case of wet culverts or unfriendly terrains where it is not possible to lay cable under the bed of culverts, the cables may be laid over the culvert in G.I. pipes as per Drg. No. RCIL/ER/DRG-05/06.

2.7.3 The protection of cable on approach to culverts/bridges shall be as per Drg. RCIL/ER/DRG-08A/06 & RCIL/ER/DRG-08B/06

2.8 LAYING CABLE IN SOLID AND ROCKY SOIL

2.8.1 If the terrain is rocky, it may not be possible to ensure normal dimensions of the trench. In such cases a chase is cut as shown in Drg. No. RCIL/ER/DRG- 07/06 Sharp edges on the sides must be smoothened out and bottom of the chase should

be levelled and the cable laid in sand or soft earth which should be filled and pressed down up to the step. A row of bricks should then be placed on the top and jointed with cement mortar.

- 2.8.2 In cases where the rock is not directly encountered, excavation to the desired depth shall be done. Payment for excavation shall be made on prorated basis on the accepted rates of item- 1 of schedule of requirement.
- 2.8.3 In cases where excavation is possible up to 1200 mm no chase cutting shall be done. However the cable/HDPE duct shall be protected by providing second class bricks width wise on such lengths.

2.9 CABLES IN CONGESTED RESIDENTIAL AREAS AND MARSHY AREAS:

- 2.9.1 When laying the cable in residential sections, the cable should be specially protected on both sides up to a distance of about 300 meters beyond the building line. In such cases the cable should be protected by laying cable inside DWC/G.I./RCC pipes of 120/103 mm dia.
- 2.9.2 In marshy area where it is not possible to divert the cable route the cable shall be suitably laid and protected as per decision of Engineer depending on site condition, like laying cable in DWC/G.I./RCC pipes of 120/103 mm dia supported on Masonry Pillars/Iron channels etc.

2.10 LEADING OF CABLE IN MASONRY BUILDINGS

- 2.10.1 The cable will have to be led inside any masonry building such as Cable hut, ASM's room at a depth of 0.75 meters by cutting the masonry structure of the wall as per Drg.No. RDSO/TCDO/COP-5. After the cable has been led inside the masonry wall, the floor inside shall be duly repaired and plastered.

2.11 LAYING OF CABLE IN SPECIAL CASES:

2.11.1 Near Power Cable

When the proposed cable route comes across any other cable already laid, the contractor shall first report the fact to the Engineer. Should the cable be identified by the Engineer as a power cable (LT or HT), the trench shall be dug as far away from the route of the power cable as practicable.

2.11.2 Crossing of Optical Fibre Cable with another cable

Crossing of the Optical Fibre cable with another cable shall be avoided wherever possible. Where, however, this is not possible, the Optical Fibre cable shall be laid in cement or asbestos cement pipes. The length of the pipe to be provided on either side of the crossing shall be at least one meter.

2.11.3 Laying other than optical fibre cables in the same Trench

No cable other than quad cable shall be laid in the trench made for the Optical Fibre cable. Even in such cases, both the cables are to be laid as per approved drawing. Where, however, exceptional circumstances exist, the optical fibre cable may be laid along with another cable in the same trench provided a specific permission of each such case is obtained in writing from Engineer. When optical fibre cable and L.T. power cable have to be laid in the same trench they shall be separated by placing a layer of second class bricks between them vertically (approx. 16 bricks/meter) or laid in RCC pipe.

2.11.4 Laying of cable through RCC/GI/DWC pipes

The cable shall be laid through RCC/GI/DWC pipes at the locations marked on the route plan and as advised by the Engineer or his representative. For laying the cable through pipes galvanized steel wires of a cross section not less than 10 SWG shall be used as a lead wire. Two such lengths of wires shall be laid through the pipes, so that after the cable is threaded through the pipe, one lead wire is permanently left in the pipe with a suitable overlay at two ends, to enable the cable to be pulled out at a later stage if required to do so.

On arch bridges and culvert bridges the cables will be threaded through DWC pipes etc. While threading the cable through these pipes the Contractor shall do the trenching to the required depth wherever necessary for which no extra charge will be paid.

2.11.5 Laying cable near feeding post:

In the vicinity of feeding posts, as far as possible the cable shall be laid on the side of the track opposite to the feeding post. Further the Optical fibre cable shall be at least one metre away from any metallic part of the O.H.E. and other equipment at the sub station which is fixed on the ground and at least one metre away from the sub - station earthing. In addition, the cable shall be laid in RCC pipes 150 mm dia (standard 2 metre length) complete or capable of being split into two half as per specn. No. ISS-458 latest for a length of 300 meters on either side of the feeding point.

2.11.6 Running of cables at foundations others than OHE Masts and from pipe outlets.

Damages to cable is likely to occur if care is not taken in laying cable where the bed changes from solid support such as a foundation pipe or bridge to soft support such as soft soil. The cable must not press against the edge of the solid support. The soft soil near the edge must be tamped and the cable raised slightly.

2.11.7 Laying near oily surface

If during the excavation of trenches for laying cables, the Contractor or his representative notices the presence of oil or oily substance or any other chemical which is likely to cause the deterioration of the cable protective material he shall bring the matter to the notice of the Engineer or his representative and on the latter's decision he shall choose an alternative cable route or he shall protect the cable in such places in such manner as advised in writing by the Engineer or his representative. No additional charges are payable.

2.11.8 Special soil condition

Cable should not be run through abnormally high acidic or alkaline soil or through sewage. If this is unavoidable, special measures should be taken against corrosion as advised by the Engineer in Charge.

2.11.9 Provision of damage due to sharp edges

When cable are laid in trucking, care should be taken to see that no ballast or stones have been dropped inside the trowning and it should be cleared of all ballast and stones before the cover is secured. When the ends of covers are joined together with cement plaster, a piece of paper or wood should be placed under the joint to prevent the cement plaster from falling on the cables.

2.12 HANDLING OF CABLE DRUMS & PAYING OF CABLES:

- 2.12.1 While collecting OFC/HDPE from RailTel depot the contractor must ensure that the materials should be received in good condition. The drums shall be unloaded by the side of the Railway Track/Road from either a crane or any other suitable means very carefully so as not to cause any damage to the cable. The drums at site shall be protected until they are laid. The cable must be tested before and after laying.
- 2.12.2 On each drum there are two ends, A & B. The 'B' end of one cable length shall meet 'A' end of the next cable at a joint. The 'A' end shall be normally on the top unless indicated otherwise on a drum.
- 2.12.3 The drums shall always be kept upright, i.e. axle in parallel position to the base. The drums shall not be set by jerks but shall be handled slowly and with care. The walls of the drums should not be damaged while moving the drums if required for unrolling.
- 2.12.4 The drums shall normally be unrolled at the same place and the cable carried by workmen near the trench. The drums shall not be dragged in any case. But where drums of cable have to be moved, would always be rolled in the direction of the arrow, otherwise the coils tend to unwind and the cable may get battered. In case no direction arrow is marked on the drum, remove several battens and determine the direction in which the cable is coiled. The arrow should then be painted on the

drum pointing in the opposite direction in which the upper cable end is coiled so that future handling of the cable drum is facilitated and then replace the battens carefully.

- 2.12.5 The drum should be properly mounted on jacks (or on a cable wheel) making sure that the spindle is large enough to carry the weight without bending and that it is laying horizontally in the bearings so as to prevent the drum creeping to one side or the other while it is rotating. Before attempting to pull off the cable, remove the end protection box attached to the flange of the drum and cut the security ropes so as to leave the cable free to move.
- 2.12.6 If a portion of the cable only is taken out from the cable drum, the battens should be immediately replaced to prevent damage to the balance of the cable. This is important.
- 2.12.7 The use of steel bars between the bolt heads to 'jump' or turn the drum around is dangerous to staff and likely to damage the drums. A better method is to use two steel plates with grease between them. By standing the drum on these greased plates, it can be easily elevated round to the desired position.
- 2.12.8 All care should be taken in handling cable drums with a view to ensure safety not only of the cables but also of the working party handling them. The man should not be allowed to brake the cable drum by standing in front but only from side.

2.12.9 Rewinding and Redrumming of cables.

- (a) If for any reason it is found necessary to rewind a cable on a drum, cable drum with a proper barrel diameter not less than of the original drum should be chosen.
- (b) The drums should be mounted on cable jacks during rewinding operations using proper size of spindles passed through the flange holes, which will not buckle under the lead. The cable should not be bent opposite to the set it is having already.
- (c) In the re-drumming operations, drums should be so turned that the cable passes from the bottom of the original set with as little gap as possible.
- (d) Replace all the lagging on the cable drum.

2.13 CABLELAYING:

- 2.13.1 It is advisable to employ the same people at the same place or job while cable is being laid.
- 2.13.2 Before commencement of the laying of cable/HDPE duct, inspection of the trench and inspection of protection works should be carried out so as to ensure their conformity with the specification. The trench bottom should be clean, smooth and free of small stone. When the soil contains stone or pieces of rock and therefore

- cannot be raddled, sieved earth about 10 cm. thick should be used both for the bedding on which the cable is laid and for covering the cables.
- 2.13.3 The cable drum should be brought as close to the cable trench as possible. It should be lifted with the aid of cable jacks firmly mounted on a support of stone or wood. The spindle should be minimum of 55 mm diameter and have a clearance from ground by 5 to 10 cm.
 - 2.13.4 Where necessary the cable drum may be placed at such a point so that 2/3 of the cable is laid directly in one direction and the balance in other direction. Care should be taken in such a case to see that there are no kinks or loops in the cable.
 - 2.13.5 The wooden battens on the drums should be carefully removed shortly prior to laying and before the drum is mounted on the jack. The nails on the lagging should be carefully removed.
 - 2.13.6 While rolling a cable drum for laying, the drum shall be supported on an axle running through its centre, the height of the axle being such that the end frames are free to rotate and do not touch the ground at any point. The cable shall be carefully uncoiled by gently pulling the cable assisted as necessary by carefully turning the drums. The quick pulling of the cable or turning the drums shall be avoided at all costs. Each cable drum shall be braked while laying is in progress to prevent sharp bending or buckling, particularly when the cable coils are sticking together.
 - 2.13.7 The method of mounting the brakes is shown in RE/42/164
 - 2.13.8 When drums are turned for change of direction, wooden blocks shall be carefully put under the drum bolts which stand out from the drum discs.
 - 2.13.9 It is customary for the mate to stand in a commanding position where he can view the entire route, and shout evenly timed calls to his men to pull. If there is proper synchronization between the mate's calls and the pulling by the men, the cable will leave the drum without Difficulty. It is important that the cable should be pulled with steady and even pulls and not be unnecessarily jerked or strained. On no account should a cable be allowed to twist or kink as this is likely to spring the Armour and fracture the outer serving of the cable. When pulling cable around bends, one or two men should be stationed to give the cable the correct bend when it passes.
 - 2.13.10 While laying the cable, employ adequate number of men such that the cable can be conveniently carried by them in both hands without stretched arms. The distance between any two persons carrying the cable shall be from 2 to 10 metres depending upon weight of cable such that the maximum sag of the cable between any two persons is not more than 0.5 metres.
 - 2.13.11 The cable shall be gently drawn by pulling the cable, which may be assisted as required, by smoothly and slowly turning the winch. The cable shall not be twisted on any account.
 - 2.13.12 Before laying is commenced, the cable shall be uncoiled first in a straight line supported by men and then carried to the trench and laid gently & carefully

ensuring that cable is not stretched while putting in the trench.

2.13.13 While laying work is in progress one man must continuously observe the cable along its length in order to determine whether any indentations, holes or other damaged parts are apparent. Such damaged parts have to be protected immediately by the cable jointer provided with the Laying party.

2.13.14 When two or three turns of cable are left on the drum, the pulling should be stopped and the inner end of the cable removed from the slot in the drum. Pulling should then be continued. If this is not done the cable end is likely to be stretched and damaged.

2.13.15 The ends of the optical fibre cable should have an overlap of 10 M at the end of each drum for jointing purpose.

2.13.16 The conditions of the cable shall be visually inspected through out its length and in case any damage or defect is noticed, the trench shall not be filled up until the Engineer's representative is notified to examine and authorize filling of the trench.

2.13.17 MINIMUM BENDING RADIUS:

Cables should always be bent (or straightened) slowly, they should never be bent to small radius while handling. The minimum safe bending radius for optical fibre cables should be 30 times the diameter of the cable but wherever possible larger radius should be used.

2.13.18 Wherever cable has to be coiled/looped, the diameter of the coil/loop shall be greater than 30 times the diameter of the cable.

2.13.19 The RCC Joint Pit / Pull Chamber to be constructed should be as per the specification given in Section III Drawings.

2.14 CABLE RESERVE:

At the following locations, it will be necessary to provide reserve cable for future possible use.

- (1) Where a change to cable line is expected, the reserve to be allowed depends on circumstances.
- (2) In freshly banked soil to allow for slipping of the bank an allowance of 30 cm. should be provided for every 10 meters of trench (3 percent). The cable should be laid in a sinuous form.
- (3) Near roadways, buildings and culverts, reserve of 5 meters should be allowed at drum end.

- (4) On each side of major girder bridge a reserve of 10 meters should be left. For minor bridges 5 meters shall be left.
- (5) Where re-modelling works on culverts, bridges and track doubling work are going on, it may be necessary to keep loops of cable as an **extra reserve** pending finalization of its future route.
- (6) At the cable hut a loop of 10 meters in the cable pit.
- (7) At every Joint Pit a loop of 10 meters on either side of joint..
- (8) At every RCC Pull Chamber a loop of 15 meters

2.15 CABLE MARKERS

The RCC/Stone cable route markers shall normally be provided at a distance of every 100 meters on the straight portion of the cable route and also at diversions of the route of the cable culverts & LC gates. The joint indicators/markers shall be provided at all types of cable joints. The cable Markers provided shall be of standard RCC/stone type with letters “**RCIL OF C**” engraved and suitably painted with standard paint as per Section-III drawing. Cable Markers shall also be provided at each Joint Pit / Pull Chamber with/ without a joint respectively.

2.16 TOOLS REQUIRED FOR TRENCHING, CABLE LAYING AND

FILLING. TOOL'S NAME

- Cable Jack
- Cable Grip
- Reopening Deice
- Free Hood Hook
- Shackle free head hook
- Grouling Hook
- Pulling Bolt
- Tension Meter
- Pulley Anti Twist Device (swivel)
- Roller Flexible Cable
- Pulling Rope
- Brush
- Mandrel
- Chain
- Measuring cord for strain gauge
- Slip Winch
- Wire rope
- Portable VHF set
- Measuring tape
- Phowrah
- Iron plate
- Loader Backhoe for Drilling
- Warning Tape

- Caterpillar tractor
- Fork Lifter
- Vehicle Vantype
- Tacho-meter
- Roadmeasurer.

2.17 Execution of HDD (Trench less Horizontal Direct. Drilling - Boring)

- 2.17.1** Under road/platforms/railway tracks/difficult terrain etc., trench less horizontal directional drilling (HDD) method shall be adopted under the supervision of competent staff for laying of HDPE pipe (40/33 mm dia) at a depth of 1.5 meters and more (depth as per instructions of the site engineer).
- 2.17.2** The depth of trench at any of the ends should not be less than 1.5 meter in any case. Both ends of HDPE pipes should be closed properly using accessories and the pits should be properly back filled.
- 2.17.3** There should be no damage to the road/platform/tracks or any such structures etc. enroot during or after the HDD operations.
- 2.17.4** The work includes supply of all accessories required for laying of HDPE pipes.
- 2.17.5** The contractor should normally adopt HDD by machine. In difficult areas like track crossing, road crossing, sharp bends etc. the contractor may adopt manual pushing method only in short lengths with the permission of the site engineer of RailTel.

2.18 Blowing/Drawing of Optical Fibre Cable:

- 2.18.1** **OFC** should normally be **blown** through the HDPE ducts by standard blowing machines Only in exceptional cases drawing may be adopted in short lengths with the permission of the site engineer of RailTel.

NOTE:

The brick protection including supply of second class bricks of standard size at site shall not be required where OFC is being provided in HDPE/DWC ducts and quad cables are not laid. However, if quad cables are also laid along with the OFC in HDPE/DWC ducts, the brick protection shall be required as per clause 3.3.5 for protection of quad cables.

For protection of OFC and or quad cables at crossing across railway tracks, road crossings, over steel girder bridges and over culverts & arch bridges or any other special cases as decided by the site engineer during execution, DWC duct 90/76 mm dia (including supply of duct and other accessories required for protection of OFC/ quad cables) may be used in place of RCC pipes as mentioned in clause no. 2.4, 2.5, 2.6 & 2.7, as per instructions of RailTel's engineers at site.

Section - V

CHAPTER-2

FORMS OF TENDER

Form No. 1	Offer Letter
Form No. 2	Qualifying Criteria / User's Certificate
Form No. 3	Agreement
Form No. 4	Contract Performance Guarantee Bond
Form No. 5	Statement of Deviations
Form No. 6	Standing Indemnity Bond for "on Account" Payments and Stores Supplied by RailTel
Form No. 7	System Performance Guarantee
Form No. 8	Works in hand
Form No. 9	Acknowledgement for receiving material from RailTel
Form No. 10	Extension of period of completion of work
Form No. 11	Qualification & Experience
Form No. 12	Guarantee Bond against 'On Account Payments'
Annexure – 1	List of materials to be supplied by RailTel
Annexure –2	List of materials to be supplied by Contractor

Form No. 1

OFFER LETTER

To

Executive Director, Eastern Region,
RailTel Corporation of India Limited,
Chatterjee International Centre,
33A, Jawaharlal Nehru Road,
Kolkata – 700 071.

I/We _____ have read the various conditions detailed in tender documents attached here to and hereby agree to ABIDE BY THE SAID CONDITIONS. I/We also agree to keep this tender open for acceptance for a period of 45 days from the date fixed for opening the same and in default thereof, I/We will be liable for forfeiture of my/our Earnest Money. I/We offer to do the work of “Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi Govindpur section in Ranchi Division of S.E. Railway for LHS work by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region” at the rates quoted in the attached schedules and hereby bind myself/ourselves to complete the work within _____ from the date of issue of Letter of Acceptance of the tender. I/We also hereby agree to abide by the various Conditions of Contract and to carry out the work according to the Specifications for materials and works laid down by the RailTel for the present contract.

2. A sum of Rs. _____ (Rupees _____ only) as a Account Payee Demand Draft No. _____ dated _____ issued by _____ is herewith forwarded as “Earnest Money”. The full value of Earnest Money shall stand forfeited without prejudice to any other rights or remedies if,

I/We do not execute the contract agreement within 15 days after receipt of notice issued by the RailTel that such documents are ready or,

I/We do not commence the work within 15 days after receipt of orders to that effect.

Until a formal agreement is prepared and executed the acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the “Letter of Acceptance” of my/our offer for this work.

SIGNATURE OF CONTRACTOR (S)

Date

SIGNATURE OF WITNESS CONTRACTOR (S) ADDRESS

1.

2.

ACCEPTENCE OF TENDERS

I accept the tender as above and agree to pay the rate as entered in Schedule of Requirements.

WITNESS For and on behalf of

For and on behalf of

RailTel Corporation of India Limited,
Eastern Regional Office, Kolkata – 700 071.

Date



QUALIFYING CRITERIA**USER's CERTIFICATE**

Name of the Firm					
Contract No. & date					
Scope of Work					
Contract Amount (in Indian Rupees)					
Completion Period as per original contract					
Completion Period with extension					
Data of Commencement					
Actual date of Successful Completion					

Name :

Dated :

Designation :

Signature of the Contractor with

Company Seal

Note: The relevant User's certificate to be attached.

AGREEMENT

(CA No. _____ for “Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi Govindpur section in Ranchi Division of S.E. Railway for LHS work by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region”

This AGREEMENT is made at New De on this ____ day of _____ two thousand and seventeen, by and between RailTel Corporation of India Limited (A Govt. of India Undertaking) having its registered office at 6th floor, IIIrd Block, Delhi Technology Park, Shastri Park, Delhi-110053, and Regional Office at 3rd Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata - 700071 acting in the premises through Executive Director /Eastern Region (hereinafter referred to as ‘RailTel’, which expression should unless repugnant to the context or meaning thereof include its successors and permitted assigns) of the one part;

And _____ having its registered office at _____ acting in the premises through _____ (hereafter referred to as “Contractor”, which expression should unless repugnant to the context or meaning thereof include its successor and permitted assigns) of the other part.

Whereas in response to a call for Tender by RailTel for the work of “Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi Govindpur section in Ranchi Division of S.E. Railway for LHS work by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region”

Corporation of India Limited, Eastern Region” as per tender papers at Annexure ‘A’ read with Corrigendum..... Issued by RailTel hereto, the Contractor has submitted a Tender as per Annexure ‘B’ hereto

AND WHEREAS the said Tender of the Contractor has been accepted for the work of

“Diversion of OFC between Ranchi-Muri ; Ranchi-Lohardaga ; & Ranchi Govindpur section in Ranchi Division of S.E. Railway for LHS work by Trenching, Laying of HDPE Duct and OFC cable, Backfilling, blowing/pulling, splicing/jointing, termination and testing of OFC cable with other associated work for RailTel Corporation of India Limited, Eastern Region”

as per copy of Letter of Acceptance of Tender No. _____ dated _____ complete with enclosures at the accepted rates and agreed deviations from tender papers as per Annexure-C hereto at contract value of Rs. _____ (Rupees _____ Only) duly accepted by the contractor.

Now this agreement witnesses that in consideration of the premises and the payment to be made by the Purchaser (RailTel) to the Contractor provided for herein, the Contractor shall supply all equipment and materials and execute and perform all works for which the said Tender of the Contractor has been accepted strictly according to the various provisions in Annexure ‘B’ and ‘C’ hereto and upon such supply, execute and performance to the satisfaction of the purchaser (RailTel) and the purchaser (RailTel) shall pay to the Contractor at the rates accepted as per the said Annexure

‘C’ and in terms of the provisions therein.

IN WITNESS whereof both the parties have hereunto set and subscribed their respective hands and/or seals on the day and year respectively mentioned against their respective signatures.

Signed and delivered by Shri _____ for and on behalf of RailTel Corporation of India Ltd.

The contract within named in the presence of :

1. Signature :
Date :
Name in Block Capitals :
Address :

2. Signature :
Date :
Name in Block Capitals :
Address :

Signed and delivered by Shri. _____ for and on behalf of _____, the contractor within named in the presence of :

1. Signature :
Date :
Name in Block Capitals :
Address :

2. Signature :
Date :
Name in Block Capitals :

Address :

- Annexure – A : Tender Paper No. _____ with corrigendum, if any.
- Annexure – B : Firm's offer.
- Annexure – C : Letter of Acceptance No. _____ with all enclosures.
- Annexure – D : Copy of Contract Performance Guarantee.



Form No. 4

CONTRACT PERFORMANCE GUARANTEE BOND

(On Stamp Paper of Rs one hundred)

(To be used by approved Scheduled Banks)

In consideration of the RailTel Corporation of India Limited, registered office at 6th floor, IIIrd Block, Delhi Technology Park, Shastri Park, Delhi- 110053 with Eastern Regional office at 3rd Floor, Chatterjee International Centre, 33A Jawaharlal Nehru Road, Kolkata – 700 071 (Herein after called the RailTel) having agreed to exempt (Hereinafter called “the said Contractor(s)”) from the demand, under the terms and conditions of an Agreement No. dated made between RailTel Corporation of India Limited and for (hereinafter called “the said Agreement”) of security deposit for the due fulfilment by the said Contractor(s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs. (Rs. only). We, (indicate the name of the Bank) hereinafter referred to as “the Bank”) at the request of Contractor(s) do hereby undertake to pay the RailTel an amount not exceeding Rs. against any loss or damage caused to or suffered or would be caused to or suffered by the RailTel by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

We,(name of Bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on demand from the RailTel stating that the amount as claimed is due by way of loss or damage caused to or would be caused to or suffered by the RailTel by reason of breach by the said Contractor(s) of any of terms or conditions contained in the said Agreement or by reason of the Contractor(s) failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.only.

We,(name of bank) undertake to pay to the RailTel any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) / Supplier(s) in any suit or proceedings pending before any court or Tribunal relating thereto our liability under this present being, absolute and unequivocal.

The payment so made by us under this Bond shall be a valid discharge of our liability for payment thereunder and the Contractor(s) / Supplier(s) shall have no claim against us for making such payment.

We,(name of bank) further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the RailTel under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till RailTel certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this Guarantee. Unless a demand or claim under the Guarantee is made on us in writing on or before the We shall be discharged from all liability under this Guarantee thereafter.

We,.....(name of bank) further agree with the RailTel that the RailTel shall have the fullest

liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the Agreement or to extend time or to postpone for any time or from time to time any of the powers exercisable by the RailTel against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension to the said Contractor(s) or for any forbearance, act or omission on the part of RailTel or any indulgence by the RailTel to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have affect of so relieving us.

This Guarantee will not be discharged due to the change in the Constitution of the Bank or the Contractor(s)/ Supplier(s).

We (the name of Bank) lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the RailTel in writing.

NOT WITH STANDING ANYTHING CONTAINED HEREIN ABOVE

- (i) The liability of the surety under his Bank Guarantee shall not exceed Rs..... (Rupees only).
- (ii) This Bank guarantee shall be valid upto
- (iii) We are liable to pay the guaranteed amount or nay part thereof under this Bank Guarantee only and only if you serves upon the bank, written claim or demand on or before

Dated theday of 2018

for

(Indicate the name of the Bank)

Witness:

Signature :

Name :

Signature :

Name :

NOTE: The Guarantee shall be valid for a period of two months i.e sixty days after the issue of FAC as per clause 28 of special condition of th contract (SCC) .

Form No. 5

STATEMENT OF DEVIATIONS**PROFORMA FOR STATEMENT OF DEVIATIONS**

1. The following are the particulars of deviations from Preamble, requirement of the Instructions to Tenderers and Conditions of Tendering and Special conditions of Contract (Section -I).

Preamble (Chapter 2)

<u>Clause</u>	<u>Deviation</u>	<u>Remarks (including justification)</u>
---------------	------------------	--

Instructions to Tenderers and Conditions of Tendering (Chapter 3)

<u>Clause</u>	<u>Deviation</u>	<u>Remarks (including justification)</u>
---------------	------------------	--

Special Conditions of Contract (Chapter 4)

<u>Clause</u>	<u>Deviation</u>	<u>Remarks (including justification)</u>
---------------	------------------	--

2. The following are the particulars of deviations from requirement of the **Technical specifications (Section -II)**

<u>Clause</u>	<u>Deviation</u>	<u>Remarks (including justification)</u>
---------------	------------------	--

Note: Where there is no deviation, the statement should be returned duly signed with an endorsement indicating “no deviations”.

SIGNATURE AND SEAL OF THE
MANUFACTURER / TENDERER

Form No. 6

STANDING INDEMNITY BOND**(For 'on Account' Payments and Stores supplied by RailTel)****(On Stamp paper of Requisite Value of Rs. 100/-)**

We, _____ hereby undertake that we hold at our Stores Depot/s at _____ for and on behalf of RailTel Corporation of India Limited in the premises through Executive Director or his successor hereinafter referred to as "the Purchaser" all materials for which 'On Account' payments have been made to us against the Contract for _____ vide letter of Acceptance of Tender No. _____ and the materials handed over to us by the Purchaser for all purpose of execution of the said Contract, until such time the materials are duly erected or otherwise handed over to him. We shall be entirely responsible for the safe custody and protection of said materials against all risk till they are duly delivered as erected equipment to the purchaser or as he may direct otherwise and shall indemnify the Purchaser against any loss, damage or deterioration whatsoever in respect of the said materials while in our possession and against disposal of surplus materials. The said materials shall at all times be open to inspection by any engineer authorized by the Executive Director /Eastern Region, whose address will be intimated in due course.

Should any loss, damage or deterioration of materials occur or surplus materials disposed off and refund becomes due, the purchaser shall be entitled to recover from us the full cost as per prices included in the Contract (as applicable) and also compensation for such loss or damage, if any, along with the amount to be refunded without prejudice to any other remedies available to his by deduction from any sum due or any sum which at any time hereafter becomes due to us under the said or any other Contract.

Dated this ____ day of _____, 2018.

For and on behalf of

(Contractor)

Signature of witness :

Name and witness in Block letters :

Address :

Form No. 7

SYSTEM PERFORMANCE GUARANTEE

PROFORMA FOR THE SYSTEM PERFORMANCE GUARANTEE

To

The Executive Director/Eastern Region,
RailTel Corporation of India Limited,
Chatterjee International Centre,
33A Jawaharlal Nehru Road,
Kolkata 700 071.

I / We Hereby guarantee that the design on the basis of which we have submitted our tender no. has been carefully made to conform to the end objectives in the tender documents and to technical specification therein. We further guarantee that in the event of the performance of the system, when installed, not complying with the end objectives or with the specifications contained in the tender documents, we shall provide further inputs to enable the RailTel to realize the end objectives contained in these documents without any additional payment for any additional equipment which may be required in this regard. We further guarantee that all the expenses for providing the additional inputs under the System Guarantee will be borne by us. We further guarantee that these additional inputs will be provided by us to make the system workable within 1 month from the date on which this guarantee is invoked by the Purchaser. The guarantee is valid for four months beyond the warranty period.

(Signature of Firm's Authorized Officer)

with Seal

Signature of witness :

Name and witness in Block letters :

Address :

WORKS IN HAND

Sl No	System & Name of the Project	Party's name & address for whom the work is being done	Total Contract Value	Schedule period of execution (in months)	%age progress in terms of work already done	Likely date of completion	No. of extensions granted	Payments received till date	Remarks

रेलवे
RAILTEL

Form No. 9

ACKNOWLEDGMENT FOR RECEIVING MATERIALS FROM RAILTEL

Station:

Date of Issue:

Sub: Receipt of Material from RailTel

It is hereby acknowledged that the following materials have been received in full and good condition by me on _____ at _____ for the work under the Agreement no. _____ dated _____.

Sl No	Description of the Material	Unit	Quantity Issued	Remarks

(Signature & Seal of the Contractor)

(Material Delivery witnessed by :

(RailTel representative)

Form No. 10

EXTENSION OF PERIOD OF COMPLETION OF WORK

Ref No. : RCIL/RMK/.....

Date : _____

To,

Sub: (i) **Name of Work**
(ii) **Acceptance Letter No.**
(iii) **Agreement No.**

Ref: (Quote specific application of the Contractor for extension to date, if received).

Dear Sir,

The stipulated date for completion of the work mentioned above is _____. From the progress made so far and the present rate of progress, it is unlikely that the work will be completed by the above date (or However, the work was not completed on this date)

Expecting that you may be able to complete the work if some time is given the Director / POM RailTel Corporation of India Limited, New Delhi although not bound to do so, hereby

extends the time for completion from _____ to _____ .

* In consideration of the circumstances explained in your letter of request RailTel has extended the completion period by Days without any liquidated damages. Please ensure the completion and commissioning of the project well within the extended period.

* Please note that an amount equal to 0.5 % of the total value of the contract per week or part thereof (rounded off to the nearest whole number) subject to a maximum of 10% of the total contract value of the works as a recovery for delay in the completion of the work after the expiry of (1) will be recovered from as mentioned in clause 35 chapter IV of the special conditions of contract for the extended period notwithstanding the grant of this extension. You may proceed with the work accordingly.

The above extension of the completion date will also be subject to the further condition that no increase in rates on any account will be payable to you.

Please intimate within a week of the receipt of this letter your acceptance of the extension on the conditions stated above.

Please note that in the event of declining to accept the extension on the above said conditions or, in the event of your failure after accepting or acting up to this extension to complete the work by (2) _____ (here mention the extended date), further action will be taken in terms of relevant clause of special conditions of contract.

Yours faithfully,

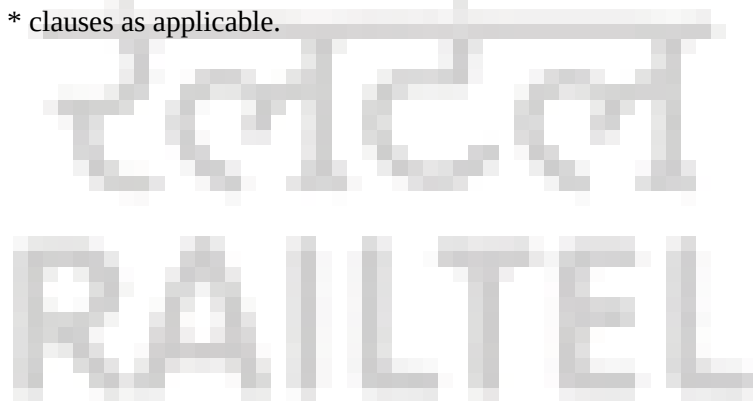
for & on behalf of RailTel Corporation of India Limited

Note:

Give here the stipulated date for completion without any penalty fixed earlier.

Here mention the extended date.

Strike out one of the * clauses as applicable.



QUALIFICATION & EXPERIENCE

Details of works executed and under execution by Tenderer during the last 5 years should be furnished in the following format (similar certificate for OEM also regarding their qualifications as per tender is also required to be submitted with details on similar lines).

Sl No	Name of Project & Description of work	Party's name & address for whom the work was done	Total Value of the Contract (in Rs)	Date of award of work and schedule period of execution (in months)	Date of completion and actual period of execution (in months)	Remarks

Note :

A certificate from the organization for whom the work was executed should be submitted to indicate that the contract was satisfactorily executed.

(Signature and Seal of the Manufacturer / Contractor)

GUARANTEE BOND AGAINST 'ON ACCOUNT' PAYMENTS

(On Stamp paper of requisite value of Rs. 100/-)

(To be used by approved Scheduled Banks)

1. In consideration of the RailTel Corporation of India Limited (hereinafter called "the RailTel") having agreed to exempt
(hereinafter called " the said Contractors")) from the demand, under the terms and conditions of an Agreement No.dated.....made between and for (hereinafter called " the said Agreement") of "on Account" Payment for the due fulfillment by the said contractors) of the terms and conditions contained in the said Agreement, or production of a Bank Guarantee for Rs. (Rs. only). We,(indicate the name of the Bank) hereinafter referred to as " the Bank") at the request of Contractor(s) do hereby undertake to pay the government an amount not exceeding Rs. Against any loss or damage caused to or suffered or would be caused to or suffered by the RailTel by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.
2. We, Bank do hereby undertake to pay the amount due and payable under this Guarantee without any demur, merely on demand from the RailTel stating that the amount is claimed is due by way of loss or damage caused to or would be caused to or suffered by the RailTel by reason of breach by the said Contractor(s) of any of terms or conditions contained in the said Agreement or by reason of the Contractor(s) failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.
3. We, Bank undertake to pay to the RailTel any money so demanded notwithstanding any dispute or disputes raised by the Contractors) / Supplier(s) in any suit or proceedings pending before any court or Tribunal relating thereto our liability under this present being, absolute and unequivocal. The payment so made by us under this Bond shall be a valid discharge our liability for payment thereunder and the Contractor(s) / Supplier(s) shall have no claim against us for making such payment.
4. We, Bank further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the RailTel under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till RailTel certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractors) and accordingly discharges this Guarantee. Unless a demand or claim under the Guarantee is made on us in writing on or

before the..... (1) We shall be discharged from all liability under this Guarantee thereafter.

5. We, (indicate the name of Bank)..... further agree with the RailTel that the government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the Agreement or to extend time of to postpone for any time or from time to time any of the powers exercisable by the RailTel against the said contractors) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension to the said Contractor(s) or for any forbearance, act or omission on the part of RailTel or any indulgence by the RailTel to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have affect of so relieving us.
6. This Guarantee will not be discharged due to the change in the Constitution of the Bank or the Contractors) Suppliers).
7. We, (indicate the name of Bank) lastly undertake not to revoke this Guarantee during its currency except with the previous consent of the RailTel in writing.

Dated the day of , 2018.

for

(indicate the name of the Bank)

Witness :

1. Signature :

Name :

2. Signature :

Name :

NOTE: The Guarantee shall be valid for a period of two months after the expiry of the currency of the contract.

Section - V

Annexure – 1

List of materials to be supplied by RailTel to the contractor:

- | S. No. : | Name of materials |
|----------|--|
| 1. | : Under ground Armoured 24/48 Fibre Optical Fiber Cable. |
| 2. | : HDPE Duct 40/33 mm dia with accessories. |

Note: The materials shall be supplied from the store of respective Site Engineer RCIL of section.



Section – V

Annexure – 2

List of important materials to be supplied by the Contractor as per SOR - Supply:

1. Double Walled Corrugated pipe 90/76 mm. dia. as per IS 14930,Pt-I&II.
2. GI PIPE 75MM dia, 3.55mm thick, as per IS 1239.
3. OFC Joint pit as per drawing OPTICAL FIBER JOINT CLOSURE AS PER approved make.
4. FIBER TERMINATION BOX (WALL/RACK MOUNTED) of approved make.

Besides above all the Materials mentioned in the Schedule of works shall be supplied by the contractor for completion of the work and shall conform to Specifications /Drawings with latest versions as are mentioned in tender document.



Section V

Chapter – 3

PREPARATION OF AS-BUILT ROUTE PLANS

1.1 SCOPE:

The scope of this is to prepare a final set of As-Built drawings of routeplans, based on the actual cable route (which in turn shall be based on a preliminary & approved drawings of route plans, already supplied to the contractor).

1.2 Points to be taken care of for laying the OFC cable:

- 1.2.1 Avoid underground structures, signalling cable, power cables and pipe lines etc.
- 1.2.2 Avoid rodent/termite infested or infected side of the alignment.
- 1.2.3 Offset of the cable trench from the central line of the track such as having burrows.
- 1.1.4. Avoid proximity to chemical, paper and such other industries which discharge chemically active affluent.
- 1.1.5 Avoiding areas prone to water logging.
- 1.1.6 Avoiding large rock cutting/thick jungles and areas difficult to approach etc. The orientation of the route (left or right side of the track in the sections) to be decided on following:-

That side of main line, which is away from coastal side, other cables such as signaling and power.

That side which is likely to involve least track crossings and likely to be more convenient for crossing the track, bridges culverts etc.

Avoid built up areas including those area where buildings etc. are likely to come up in future.

For the straight runs as far as possible a separation of 10 Meter should be kept from the nearest track. This is as per CCITT recommendation K.8. As a rule a minimum distance of 5.75 M should be maintained between the OHE masts and the cable. In Yards etc. where observance of this rule may be difficult, a minimum distance of 3 Meter should be maintained. In exceptional cases where the cable trench depth is less than 0.5 M the lateral distance may be reduced to 1 M. Make the route of OFC cable within 1 meter of Railway boundary normally.

1.2 As-Built Cable Route plan.

Based on above actual route, the as-built cable route plan should be prepared:

- 1.2.1 The name of the location should be put in the 'LOC' column and the change in the 'CH' column. At every 10 cm. the Km. post number should be written and its exact equivalent

change entered in the 'CH' column. The name of station should be shown against the location of the Station Master's Office.

1.2.2 Based on the route, the serial number and the length of culverts, bridges and level crossings should be marked on the 'Track Line' of the cable route plan.

1.2.3 The actual measurement of the separation distance from the central line of the track (the adjacent main line) is to be shown. This is to be compiled on the 1 Km charts.

The termination plan & locations of joint enclosures of OFC to be shown.

1.3 Preparation of Drawings'

All the plans and drawings shall be neatly prepared using Computer Aided Design System & plotter etc. The drawings shall be in A3 size & suitably filed for ease of handling. Further, a soft copy of Auto-CAD drawings in CD shall be submitted.

1.4 Information in Cable route plan:-

The cable route plan shall contain following information:-

1.4.1 Whether the cable route is on the **up** or **down** side of the Railway Tracks. Exact locations and lengths where the cable is laid in RCC/DWC/G.I. pipes/ troughs and under the bed on culverts.

Location of track crossing and the number of tracks being crossed. Location of road crossing and the no. of RCC/DWC/GI pipes provided.

Locations and length for protection of cable in rocky area and platform cutting etc.

Locations of Pull Chambers/Joint Pits.

1.5 DELETED.

1.6 DELETED

1.7 Guidelines for finalization of cable route plan:

1.7.1 The following are the guidelines for preparation of the cable route plan:

Prepare the "1 Km charts" as explained above and enter the relevant changes and details in the "1 Km charts" based on the latest copy of proved OHE/Overhead plan supplied to him by the engineer.

1.7.2 Actual measurement by 30 M steel tape or chain along the route is necessary only in case of important locations, to be termed as "special terrains", for example, approach to repeater station/cable hut, long bridges, big yards, sharp diversions in the cable route from its parallel Course along the main railway tracks due to obstruction, cuttings etc.

1.7.3 Inspect and decide the portions of route falling in category of "special terrains" stated in Para 2.7.2 Above, i.e. where actual longitudinal measurement is necessary.

- 1.7.4 The remaining portions of the route, i.e. other than the portion decided as "special terrain" as per Para 2.7.2 above are to be termed as "straight runs". Actual chaining along the route is not necessary for such "straight runs" and these can be marked on the "1 Km. charts" by taking changes from the OHE/ Overhead alignment plan.
- 1.7.5 The cable route should be started from a repeater/ cable hut/ station. Actual measurement along the route should be done by means of a 30 M steel tape for a few drum lengths up to a convenient point along the main line where from the distances along the route may be reckoned from the OHE/ Overhead alignment Plan. A termination allowance of actual length (prescribed 5M) of cable inside the repeater station/cable hut building should be, in addition to a length of about 10 M (actual length), kept in a pit just outside the building.
- 1.7.6 It should be ensured that both "special terrains" and "straight runs" should consist of full drum lengths, so that the position of joints (other than T-Joint) is fixed without difficulty in both cases.
- 1.7.7 Actual measurements of the separation distance should be done from the centre line of the reference track. In case of 'Special terrains' the separation distance at some points on the route may also have to be reckoned from some other permanent structures depending upon the site conditions.
- 1.7.8 Once the cables are laid, the chain ages at diversions, crossings, approaches of bridges, Jointing Chambers and Joints/Extra lengths of Optical fibre cables should be clearly marked on cable route plan.

1.8 Length of Optical Fibre cables: -

The approximate cable length is worked out on following basis to arrive at the location of the straight joints: -

Extra length for track crossing including 2.5 meter loop on each side. Extra length on Approach/crossing of the bridges and culverts as per measurement in the detailed survey.

10 meter of cable to be kept on either side of major steel bridges and 5 meters on minor bridges.

At every Joint Pit a loop of 10 meters on either side of the joint and a loop of 15 meters in the Pull Chambers without joint, should be kept. In cable hut a loop of 10 meters should be kept in the cable pit.

1.9 Protective works for Cable/ Ducts:-

- 1.9.1 For building, masonry platforms, culverts, crossing of tracks, level crossings and roads etc.

Special protection for the cables is required. Some of the methods adopted for different types of protective works are specified in the following drawings:-

For Girder bridges M.S. Troughing Drg. RE/42/172.

For cable entries to Cabins, ASM's Offices & Buildings etc. through HDPE pipe.

For unconsolidated embankments Shoring for the cable trench as per Drg.No. RDSO/TC/35003.

For laying cables over the culverts in DWC pipes Drg. No. RCIL/ER/DRG- 05/06
Arrangements of cable in GI pipe on Girder bridges Drg no. RCIL/ER/DRG- 08A/06 & RCIL/ER/DRG-08B/06.

For route over rocky area through chase Drg.No. RCIL/ER/DRG-07/06.

For routes under bed of culverts in DWC pipes Drg.No. RCIL/ER/DRG-06A/06. For cable laying under railway track Drg. RCIL/ER/DRG-04/06.

For cable laying under road drg. No. RCIL/ER/DRG-03/06. For RCC cable route marker drg no. RCIL/ER/DRG-01/06.

Note1: In non-RE area, wherever distances are reckoned with reference to overhead alignment, the distances from the nearest KM-post provided along the track, may also be mentioned.

Note 2: If any of the above-mentioned drawings are illegible or not clear, the clarifications may be sought from the office of Regional General Manager, RailTel/Eastern Region.

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SECTION – V

CHAPTER –4

JOINTING AND TERMINATION OF OPTIC FIBRE CABLE

3.1 TECHNIQUE FOR JOINTING OF OPTICAL FIBRE CABLE

Fusion splicing shall be used for splicing fibres. This is accomplished by applying localized heating (i.e. by electric arc or flame) at the interface between two butted, pre-aligned fibre ends, causing them to soften and fuse together.

3.2 STRAIGHT JOINT FOR FIBRE OPTIC CABLE

3.2.1 There are various types of joint enclosures available in the market. The procedure for assembly of joint closure is described in the installation manual supplied with straight joint closure. This includes the following:

Material inside joint closure kit Installation tools required Detailed procedure for cable jointing Procedure for re-opening the closure.

3.2.2 The Optic Fibre straight through joint closure shall be as per specn. TEC TO 910 G92 (latest) or a proven design approved by RCIL .The joint shall be protected in RCC Joint Pit (The Optic Fibre straight through joint closure shall be of TVSE, R&M, Raychem, 3M make and shall be approved in advance by RailTel. The joint shall be protected in concrete chamber as approved by engineer- in-charge.)

3.2.3 Generally, the following steps are involved for jointing of the cable:

- Preparation of cable for jointing
- Stripping/cutting the cable
- Preparation of Cable and joint closure for splicing
- Stripping and Cleaving of Fibres
- Fibresplicing
- Organizing fibres and finishing joints
- Sealing of joint closure and
- Placing joint in the Jointing Chamber/Pit.

3.2.2 PREPARATION OF CABLE FOR JOINTING

During the installation, a minimum of 10 meter of cable of each end is coiled in the jointing pit to provide for jointing to be carried out at convenient location as well as spare length to be available for future use in case of failures.

The pit size must be chosen carefully to ensure that length of the wall on which joint is mounted is greater than closure length plus twice the minimum bending radius of the cable. A RCC circular Joint Pit / Pull Chamber of 1 mete outer dia as given in annexure-2.14 is sufficient for most of the cable and joint closures.

The cable is then coiled and carefully placed in the pit/chamber in the same position as required after the joint is complete. The marking is done on all the loops so that it will be

easier to install it later.

The distance from the last centre to the end of the cable must be atleast 1.8 meter. This is being the minimum to be stripped for preparation of joint. Sufficient cable at each end up to the jointing vehicle/enclosure is then uncoiled from the pit for jointing.

3.2.3 STRIPPING/CUTTING OF THE CABLE

The cables are stripped of their outer and inner sheath with each sheath staggered approximately 10mm from the one above it. Proper care must be taken when removing the inner sheath to ensure the fibres are not scratched or cut with the stripping knife or tool. To prevent this, it is best to only score the inner sheath twice on opposite sides of the cable, rather than cut completely through it. The two scores marking on either side of the cable are then stripped of the inner sheath by hand quite easily. The fibres are then removed from cable one by one and each fibre is cleaned individually using Kerosene to remove the jelly.

3.3 PREPARATION OF CABLE JOINT CLOSURE FOR SPLICING

The type of preparation work performed on the cable prior to splicing differs on the type of joint closure and fibre organizer used. However, the following steps are usually common:-

The strength members of each cable are joined to each other and/or to the central frame of the joint closure. The joint closure is assembled around the cable. The sealing compound or heat shrink sleeve is applied to the cables and closure, or prepared for application after splicing is complete.

The fibres are protected (usually with plastic tubing) in their run from the cable core to the fibre organizer trays (particularly if cable construction is slotted core type). Tags which identify the fibre nos. are attached at suitable location on the fibres. Splice protectors are slipped over each fibre in readiness for placing over the bare fibre after splicing.

3.4 STRIPPING AND CLEAVING OF FIBRE

Prior to splicing each fibre must have approximately 50mm of its primary protective U.V. cured coating removed, using fibre stripper which are manufactured to fine tolerances and only score the coating without contacting the glass fibre. The bare fibre is then wiped with a lint free tissue doused with ethyl alcohol. Cleaving of the fibre is then performed to obtain as close as possible to a perfect 90 degree face on the fibre.

3.5 SPLICING OF THE FIBRES

The fusion splicing shall be used for fibre splicing. Some of the basic steps for fusion splicing are as given in 4.8 below.

3.6 FUSION SPLICING OF FIBRE

Some of the general steps with full automatic micro processor control splicing machine are as under:

Wash hands thoroughly prior to commencing this procedure.

Dip the clean bare fibre in the beaker of ethyl alcohol of the ultrasonic cleaver. Switch on ultrasonic cleaver for 5-10 seconds (Some of the manufacturers do not prescribe the above cleaning).

Place the bare fibre inside 'V' groove of the splicing machine by opening clamp handle such that the end of fibre is app. 1 mm. over the end of the "V" groove towards the electrodes.

Repeat the same procedure for other fibre, however, first insert heat shrink splice protector.

Press the start button on the splice controller.

The machine will pre fuse, set align both in 'X' and 'Y' direction and then finally fuse the fibre.

Inspect the splice on monitor if provided on the fusion splicing machine and assure no nicking, bulging is there and cores appear to be adequately aligned. If the splice does not visually look good repeat the above procedure.

Slide the heat shrink protector over the splice and place in tube heater. Heat is complete when soft inner layer is seen to be 'oozing' out of the ends of the outer layer of the protector. Repeat for other fibres.

3.7 FUSION SPLICER AND OTDR

The fusion splicer and Optical Time Domain Reflector meter (OTDR), to be used for splicing and measurements of parameters respectively, shall be of approved design and quality. The contractor shall submit.

Specification of fusion splicer and OTDR

Certificate from the users, who have used the splicer and OTDR of the make, the contractor intends to use, regarding their satisfactory performance. The RCIL reserves the right to direct the contractor to use the same or any other proven design of fusion splicer and OTDR if in the opinion of RCIL the specification of Fusion splicer and OTDR are not suitable.

3.8 ORGANISING FIBRE AND FINISHING JOINTS

- 3.8.1 After each fibre is spliced, the heat shrink protection sleeve must be slipped over the bare fibre before any handling of fibre takes place, as uncoated fibres are very brittle and cannot withstand small radius bends without breaking. The fibre is then organized into its tray by coiling the fibres on each side of the protection sleeve using the full tray side to ensure the maximum radius possible for fibre coils. The trays are placed in the position. OTDR reading taken for all splices in this organized state and recorded on the test sheet to confirm that all fibres attenuation are within specification. This OTDR test confirms fibres were not subjected to excessive stress during the organizing process.

After this the joint can be closed with necessary sealing etc. and ready for placement in the pit.

3.8.2 Jointing Pit/ Pull Chamber: The Jointing Pit / Pull Chamber is as per drawing at Annexure-2.14. The outer dia of the circular RCC Jointing Pit / Pull Chamber shall be approx. 1000mm. The pits shall be located at every 1Km of the OFC route and spare cable of 15 meters to be looped and placed in the pit. The pit shall be refilled with dry sand after completion of the work and then closed. Stone/RCC route markers shall be provided for identification of each Jointing Pit / Pull Chamber location with/without a joint and this should be incorporated in the as-built-cable route plan.

3.9 PLACING OF COMPLETED JOINT IN PIT

Joint is to be placed on the tarpaulin provided near the pit. The cable is laid on the ground, loop the cable such that pen mark previously place on the cable line up. Tape these loops together at the top of the coil. The joint can now be permanently closed and sealed by heating heat shrinkable sleeve etc. However, before closing, silica gel to be kept inside for moisture protection. Now the joint closure is placed in the jointing pit /chamber and the pit is closed after filling it with dry sand.

3.10 RE-OPENING OF THE JOINT

If required for attending to faults etc., manufacturers supply special kits for opening of the joint and the steps to be followed. However, the general steps are as under:-

Using suitable knife cut heat shrink sleeve longitudinally along its entire length. Do not damage the smaller heat shrunk sleeve on the ends of the joint. Apply heat to the cut sleeve until it begins to separate. Gently remove the cut sleeve from the joint. Now the joint can be opened. Protective sleeve/cover can be removed for attending to faults etc.

3.11 TERMINATION JOINT FOR FIBRE OPTIC CABLE.

This joint is provided in the cable hut for terminating the outdoor fibre optic cable of both the sides, splicing through fibres, connecting fibres to pigtails for connection to Optical Line Terminal Equipment etc. 4.13.2 The OFC cables shall be dressed up on teak wood plank/Aluminum ladder inside cable hut. The armour of the OFC Cable shall be cut before taking the cable in the equipment rack. The cables shall be terminated on FDMS and derive required pigtails. Two pairs of fibres shall be

derived from either side cable at every OFC cable hut through pigtails with FC/PC connectors. The remaining fibres shall be looped through. 4.13.2 The procedure for installation of termination joint box depend upon the type of joint enclosure. The installation manual supplied gives the step-by-step procedure for installation. However, the general steps are as under:-

- Marking the cable
- Stripping/cutting the cable
- Gripping cable in sheath/clamp
- Treatment of tension member
- Fibresplicing
- Enclosing fibre

- Fixing strength member
- Closing the cover
- Fixing termination box
- Fixing the cable.

3.12 MARKING THE CABLE

Determine the cable length up to the proposed location of termination box. It is also to be ensured that at least 10 meters of cable is coiled in the cable pit. Determine the cutting point and mark the cable. Determine the sheath peeling point and mark the cable.

3.13 CUTTING / STRIPPING THE CABLE

Cut the cable as per the marking. Remove the sheath from cable ends. During sheath stripping care should be taken not to damage the fibres. The length and the steps for various sheath cutting shall be as per the instruction given in

3.14 GRIPPING THE CABLE

Wind PVC tape around the cable core just beside edge of the sheath. Insert the bushing inside sheath by cutting the cable sheath for about 25mm. Place the sheath grip (lower half and upper half) and tighten it with the help of torque wrench.

3.15 FIXING OF TENSION MEMBER

- (a) Mark the tension member for the specified length and cut it.
- (b) Clean the tension member thoroughly by Alcohol and cotton cloth.
- (c) Fix tension member holder with the help of instant adhesive at the end of tension member.

3.16 FIBRE SPLICING

The procedure for splicing is same as described for straight joint closure in Clause 4.7 above.

3.17 ENCLOSING FIBRES

- (a) Set the fibre cassette on the base
- (b) Arrange excess length of fibre to make double figure of eight.
- (c) Enclose the spliced fibre and its excess length carefully.
- (d) Repeat the procedure for other fibres.
- (e) After this, the box can be closed. However, a packet of silica gel may be placed inside for protection from entry of moisture.

3.18 MOUNTING OF TERMINATION BOX.

Termination box can be fixed either on wall or on equipment rack. At wayside stations it shall be mounted inside the equipment rack in order to prevent pigtailed from rodent attacks.

- (a) Mark the fixing holes on the walls/bracket/frame
- (b) Place the termination box and tightened the nuts inside the base box.

- (c) Put the covers.

3.19 FIXING THE CABLE

Secure the cable on wall/frame at two places within one meter from termination box keeping in view straight entry of cable in termination box.

3.20 ISOLATION OF ARMOUR OF OFC CABLE

The maximum continuous length of armour of OFC Cable should not exceed 1.6 Kms. In order to keep the induced voltage within permissible limits. Where the continuous length of cable exceeds 1.6 Kms, a 50 mm cut shall be made in the armour after every 1.6 Kms. The Exposed cable at the cut shall be covered by shrinking suitable heat shrink sleeve as per TEC specifications.

3.21 ACCEPTANCE TEST FOR FIBRE OPTIC CABLE

The Procedure for Testing of Fibre Optic Cable shall be jointly finalized by Contractor with Engineer of the RCIL. The parameters in the concerned specification shall be taken as reference. The Test shall be conducted from cable hut to cable hut, after the Splicing & termination Joints are completed. The length of cable (as per marking in cable & as measured by OTDR), loss in cable, average loss per Km., No. of Splices, Splice loss, etc. shall be recorded and jointly signed as per pro-forma given in Para 4.24 below.



3.22 TEST PROTOCOL FOR OPTICAL FIBRE CABLE**SYSTEM TEST PROTOCOL OPTICAL FIBRE CABLE FIELD TEST**

Route: ----- Date: -----
 Station: ----- No. of mid-section splices: -----
 Section: ----- Measured by: -----
 Length ----- Length as per meter
 (by OTDR): ----- marking on cable sheath -----

(1) Optical measurements (On Line):

Measurement	Fibre – number	Accepted Value
1.1 Total attenuation at 1300/1550 nm with OTDR		
1.2 Total attenuation per Km at 1300/1550 nm:		<0.40 dB/Km at 1300 nm & <0.25 at 1550 nm:
1.3 Splice Loss in dB with OTDR Location		Average splice Loss
OHE Mast No./ Overhead alignment post no. A. B. C. D. E.		
Average Splice Loss		0.15 db, no splice should have loss > 0.2 db

NOTE : ALSO ATTACH OTDR RESULTS ----|

2) Visual Inspection (On Line):

2.1 No. of Cable drum used in the section: -----

2.2 S.No. of cable and length of each drum:

S.No.	LENGTH
1. -----	-----M
2. -----	-----M
3. -----	-----M
4. -----	-----M
5. -----	-----M

2.3 Location of Isolation Sleeves: 1. 2. 3.

Contractor's Representative RCIL's Representative

3.23 TOOLS AND EQUIPMENTS REQUIRED FOR JOINTING AND TERMINATION OF FIBRE OPTIC CABLE.

S. No.	TOOL's Name
1.	Branch Joint Closure
2.	Termination Box
3.	Rubber end Block
4.	Sheath Clamp
5.	Bushing
6.	Strength Member holder
7.	Heat Shrinkage tube
8.	Arc fusion splicer machine.
9.	Power cord AC/DC
10.	Walkie-Talkie 12V DC source
11.	Tube heater
12.	Precision cleaver
13.	Cable sheath stripper
14.	Fibre stripper
15.	Knife for HDPE cutting
16.	Hexa for strength membrane
17.	Isopropyl alcohol or methanol of high specific gravity
18.	Johnson Buds
19.	Tweezers
20.	Gun heater Blower type
21.	Sleeve for splice protection
22.	O.T.D.R.
23.	Stickers for numbering of splicers.
24.	Portable k. oil generator
25.	Umbrella's 2Nos.
26.	Dust protection for splicing machine

Note: - Wherever cable has to be coiled/looped, the diameter of the coil/loop shall be greater than 30 times the diameter of the cable.

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SECTION – V

CHAPTER – 5

List of Address for Specification

5.1 Address from where specification copy can be purchased:

The copy of IRS, RDSO, TEC and BIS specification used in the tender documents can be purchased from following sources.

- 5.2 IRS Specification:** (i) Manager Publications,
Government of India
Civil Lines, New Delhi- 110054
- (ii) Government of India Book Depot,
8 - S.K. Roy Road, Kolkata – 700001
- 5.3 RDSO Specification:**
RDSO, Manak Nagar, Lucknow
- 5.4 DOT/TEC/ITD Specification:** Khurshid Lal Bhavan, Janpath,
New Delhi-110001
- 5.5 B.I.S. Specification:** Directorate General,
Indian Standards Institution, 9-
Bahadur Shah Zafar Marg, New
Delhi-110002
F- block, Unity Building,
Narsimhraj Square,
Bangalore- 560002
534- Sardar Vallabh Bhai Patel Raod,
Mumbai.
5- Chowringhee Approach, PO Princep
Street, Kolkata- 700072
Ahinsa Building (1st floor) , SCO 82-83,
Sector 27-C, Chandigarh- 160017
5-8-56/57, L.N. Gupta Marg, Hyderabad-
208005.
117/418-B, Sarvoday Nagar, Kanpur –
208005
C.I.T. Campus, Adyar, Madras – 600020.

If any specifications and drawings referred but not enclosed in the tender documents may be seen in the RCIL's office on any working day.