

Tender No: RailTel/Tender/OT/ER/HQ/2016-17/945-946,

Dt. 11.05.2016

TENDER DOCUMENT

FOR

THE WORK OF

“Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East-Coast Railway, East Central Railway, Northeast Frontier Railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd., Eastern Region for five years”

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 EACH TENDER DOCUMENT: Rs. 5,250/- (Rupees Five Thousand Two Hundred and Fifty only)
(For Section 1)**

**Rs. 5,250/- (Rupees Five Thousand Two hundred and Fifty only)
(For Section 4)**

COPY NO. _____ : SOLD TO _____

INDEX

Sl. No.	Content	Page No.
1	Tender Notice	3 - 5
2	Preamble	6 - 9
3	Tenderer Data Sheet	10
4	Eligibility Criteria	11
5	Offer letter	12 -13
6	Work Specifications	14-31
7	Penalties	32
8	SOR where tenderer to quote	33-40
9	Summary of Maintenance Activities, Periodicity & tower population	41
10	List of Towers	42-47
11	Formats for PBG, Security Deposit & Contract Agreement	48-53

RailTel Corporation of India Limited

A Government of India Undertaking (Ministry of Railways)
Eastern Region, Chatterjee International Centre,
3rd Floor, Jawaharlal Nehru Road, Kolkata-700071,
Tel: 033-44041499 Fax: 44041490
www.railtelindia.com

DETAILED TENDER NOTICE

RailTel Corporation of India Ltd., Eastern Region invites sealed open tenders for the work of “Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East-Coast Railway, East Central Railway, Northeast Frontier Railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd., Eastern Region for five years”. **This is a common tender notice for 2 (two) separate sections having separate tender Nos. as given below:-**

Section No.	HQ of the section	Railway	Estimated tender value for 5 years (Rs.)	Earnest Money Deposit (Rs.).
Tender No. RailTel/Tender/OT/ER/HQ/2016-17/945 Dt. 11.05.2016				
1	Kharagpur	South Eastern, South East Central, East Coast	72,90,076/-	1,45,850/-
Tender No. RailTel/Tender/OT/ER/HQ/2016-17/946 Dt. 11.05.2016				
4	Guwahati	Northeast Frontier	85,83,004/-	1,71,700/-

a.	Sale of Tender Documents	13.05.2016
b.	Closing of sale of Tender Document	30.05.2016 at 17:00 hrs
c.	Receipt of Tender	31.05.2016 up to 10:30 hrs
d.	Opening of Tender	31.05.2016 at 11:30 hrs
e.	Validity of offer	120 days from the date of opening of tender
f.	Address from tender document can be obtained	Executive Director, RailTel Corporation of India Ltd., Eastern Region, 3 rd Floor, Chatterjee International Centre, 33A, Jawaharlal Nehru Road, Kolkata – 700 071

g.	Web address from where tender document can be downloaded	www.railtelindia.com
h.	Cost of Tender Document by hand	Rs.5,250/- (For section 1 and section 4)
i.	Cost of Tender Document if required by post	Rs.5,750/- (For section 1 and section 4)
j.	If the tender document is downloaded from the website, then the cost of tender document as stated above have to be submitted for each section along with the offer in the form of Demand Draft drawn in favour of RailTel Corporation of India Ltd., payable at Kolkata from any Nationalized/scheduled Bank (Non-Refundable)	

Each section shall be treated as a separate tender and tender number for each section is given above. However, a bidder may quote for multiple section/tender.

Fulfillment of eligibility criteria as mentioned in the tender document is a pre-requisite for consideration of the offer of the Tenderers. If a tenderer submits offers for more than one section, then the sum total of the credentials required for each section in which participants shall have to be fulfilled by the tenderer for qualifying in the sections participated.

The rates quoted by the tenderer in a section shall have no bearing on the rates quoted by him for any other section. Each section shall be treated as a separate tender and the tender will be finalized accordingly. For the purposes of arriving at the valid lowest rate, each section shall be considered as a separate entity. Separate tender document shall be used for each section.

Earnest Money shall be submitted in the form of demand draft/ Pay Order drawn on nationalized/ scheduled bank in favour of RailTel Corporation of India Ltd., payable at Kolkata.

Eligibility Criteria:

Tenderer must have completed successfully and satisfactorily at least one similar work costing not less than 35% of the value of the tendered work during the preceding Three years (i.e. current financial year and previous financial years) executed for Govt. /PSUs/ Telecom Service providers.

For detailed qualifying criteria, please refer Para 3 of preamble of tender document.

Cost of Tender Document shall be paid in the form of Demand Draft drawn in favour of **RailTel Corporation of India Limited**, payable at Kolkata from any Nationalized/Scheduled Bank. Tender document can be purchased from the Office of The Executive Director, Eastern Region, RailTel Corporation of India Ltd., Kolkata on any working day or can be downloaded from the website **www.railtelindia.com**. Documents downloaded from website shall accompany the payment for the cost of the document in the form of D.D as mentioned at clause “h” above during the submission of Tender document. Documents received without the cost of tender will summarily be rejected. **The tender document should be sealed in a cover duly superscripted tender No. and name of the work** and shall be dropped in the Box kept in the office of Executive

Director (Eastern Region), RailTel, Chatterjee International Centre, 3rd Floor, 33A, Jawaharlal Nehru Road, Kolkata – 700 071, as mentioned at clause “f” above.

RailTel is not responsible for delay or loss in transit, in case the tender is being sent by post. The tenderer may be present at the time of opening of tenders, if they desire. The tender offers are deemed to be valid for acceptance for a period of 120 days from the date of opening of the tender. Late/delayed/incomplete tenders and tenders with insufficient EMD will be summarily rejected.

Tender Notice and Tender Document are also available at our website **www.railtelindia.com**



रेलटेल
RAILTEL

(KARMA LAKRA)
General Manager (Operations)
Eastern Region/Kolkata
RailTel Corporation of India Limited

RailTel Corporation of India Ltd.

(A Minorana Category 1 Enterprise)

Preamble

Name of work:-“Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East Coast Railway, East Central Railway, Northeast Frontier Railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd., Eastern Region for five years.

1. Details of section wise location of towers required to be maintained are as follows :-

Section No.	HQ of the section	Railway
1	Kharagpur	South Eastern, South East Central, East Coast
4	Guwahati	Northeast Frontier

2. **Last Date of receipt of tenders:** Sealed tenders for the above Tender Notice will be received in the office of the Executive Director/ RailTel, Kolkata on 31.05.2016 **up to 10:30 Hrs IST and the tender will be opened on 31.05.2016 at 11.30 Hrs.** on the same day. If the above said day happens to be a holiday, the same shall be opened on the next working day.

- 2.1. **Percentage Offer:** The tenderer are required to quote **percentage rate At par/Above/Below over the total value in figures and words as indicated in the schedule.** If there is any discrepancy in the quoted rates both in figures and words, the rates quoted in words will be taken as final.

3. **ELIGIBILITY CRITERIA:**

Please refer page No. 4

- 3.1 **Plant & machinery:** The tenderer should furnish the details of the machinery and plant to be deployed for maintenance of tower.

4. **Currency of the Contract:**

The currency of the contract shall be 5 (Five) years from the date of issue of LOA extendable by further period of one year depending on the performance of the contractor at the same rate, terms & conditions of the contract. Such extension shall be binding on the contractor. However, the contract may be terminated by RailTel by giving one month's notice in the event the contractor's performance is found to be unsatisfactory or it is decided by RailTel to do away with the maintenance of a particular section or RailTel finds it necessary to amalgamate or re-orient the sections for maintenance.

In case of premature withdrawal (before the completion of the tenure agreed) of the Team by the contractor for any reason whatsoever, the entire Security Deposit and Performance Guarantee shall be forfeited by RailTel. Also, in case the premature withdrawal is without at least one month's notice, additionally

the maintenance charges for the last two months shall also be forfeited.

5. Awarding /Not awarding contract is the sole discretion of RailTel Corporation of India Ltd. RailTel's decision in choosing the vendors on technical capability shall be final.
6. Cost of the tender document is Rs. 5,250/- (Rupees Five Thousand Two Hundred Fifty only) by person and Rs.5,750/- (Rupees Five thousand Seven Hundred & Fifty only) by post for each section. The payment for the cost of the tender document shall be made by Demand Draft to be drawn in favour of RailTel Corporation of India Ltd., payable at Kolkata Cost of the tender document is not refundable under any circumstances. Money orders are not acceptable.
7. The tenderer shall produce along with tender paper the documentary support for their experience. The tenderer shall also state the number of fully equipped teams, which shall be placed fully under the disposal of RailTel. Documentary support for the possession of vital equipment and experienced staff etc. shall be submitted along with the tender papers. The offer document should be serially numbered. The offer of Tenderers, which do not comply with these conditions, will be rejected.
8. All offers must be accompanied with Schedule of work along with SOR as well as technical details duly filled in and signed. Unsealed tenders will be not be accepted and will be summarily rejected
9. The RailTel Corporation is not bound to accept the lowest or any tender nor assign any reason for doing so and RailTel Corporation reserves the right to accept any tender in respect of whole or any portion of the items specified. RailTel also reserves the right to add or delete maintenance of any tower during the period of maintenance, however, payment will be made on pro – rata basis on actual quantity.
10. Earnest Money as indicated in the tender notice for respective section should be deposited in favour of RailTel Corporation of India Ltd., payable at Kolkata, in the form of Demand Draft/Deposit Receipt on any Scheduled Bank. No interest shall be paid on this Deposit and RailTel reserves the right to forfeit this deposit if the successful tenderer fails to submit the Security Deposit required by the Terms and Conditions of the tender. No bank guarantee for EMD is accepted. The instrument should be valid up to 120 days after tender opening date.
11. The quoted Percentage rate in the schedule should include all the materials to be provided for the work to be done by the contractor as described in the tender document and the schedule attached. Tenderer's special attention is invited to the fact that no material shall be arranged / supplied by RailTel. All materials including the materials covered under the Schedule of Requirement and those required to achieve the end objective and any special protection materials needed are to be supplied by the contractor.
12. The Percentage/Unit price should be quoted by the Contractor as an all inclusive price, after taking all the event factors into consideration and these should be firm and all inclusive without any variation clauses. These shall include all taxes &

duties such as sales tax, works contract tax, service tax & Octroi, entry tax etc. as payable under the law of land as also any charges arising under VAT system and RailTel shall not accept any liability for the same after award and acceptance of contract. The break-up of taxes may be furnished and same should be reflected in the bills so that any input credit can be availed by RailTel.

13. Maintenance team under Contractor's Manager/Engineer (Structural Engineer) shall be deployed at Kolkata / Asansol for Eastern Railway towers, at Patna for East Central Railway towers, at Kharagpur for South Eastern, South East Central & East Coast Railway towers and Guwahati for NF Railway towers. Contact details (address and mobile number) of Manager/Engineer in-charge (Structural Engineer) of each team shall be intimated to RailTel's Eastern Region office within 14 days from the date of issue of Letter of Acceptance.
 14. **The tenderer shall keep the offer open for a minimum period of 120 (one hundred twenty) days from the date of opening of the tender within which period the tenderer cannot withdraw his offer. Any contravention of this condition will make tenderer liable for forfeiture of his earnest money deposit.**
 15. Before quoting, the Tenderer are advised to ascertain the nature of work involved. If required site inspection can be undertaken.
 16. Tender should be submitted on the entire work.
 17. Submission of tender will be deemed to imply that this memorandum and all documents enclosed have been studied, understood and the tenderer is aware of the full scope of the work to be done and the conditions affecting the execution.
 18. The tenderer shall not increase the quoted rates in case RailTel Corporation negotiates for reduction in 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.
- The enclosed Tenderer data sheet should invariably be filled and submitted along with the offer, otherwise, the offer will be deemed to be summarily rejected.**
19. If the tenderer deliberately gives wrong information in his tender or creates such circumstances for the acceptance of his tender RailTel Corporation reserves the right to reject such tender at any stage.
 20. The successful tenderer shall sign an agreement for execution of the work as tendered by him and accepted by RailTel Corporation within seven days of issue of LOA.
 21. **AUTHORITY OF ACCEPTANCE / EVALUATION OF OFFER :** The authority for the acceptance of the tender rests with the Purchaser (RailTel Corporation of India Ltd). 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.



रेलटेल
RAILTEL

RailTel Corporation of India Ltd.

(A Monopsony Category - I Enterprise)

TENDERER DATA SHEET

For the work of

Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East-Coast Railway, East Central Railway, Northeast Frontier Railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd., Eastern Region for five years.

Tender No. RailTel/Tender/OT/HQ/2016-17/945-946, Dt. 11.05.2016

1	Name of the Organization	
2	Name of the Authorized Person submitting the Tender Documents (submit the proof of authorizing the person to sign the tenders by the company on its behalf)	
3	Main line of Business	
4	Years of Experience	
5	Location (indicate address, tel. no., fax and the year from which they are operating in that location.	
6	Contact person	
7	Address	
8	Tel. No.	
9	Fax No.	
10	E-mail ID	
11	Tender bids : Whether Downloaded : Yes/No (No changes/ additions/ deletions/alterations to the tender document are permitted under any circumstances)	

Cost of Tender document in the form of DD (Rs.5,250/-, payable to RailTel Corporation of India Ltd., Kolkata) : DD No. : _____ Date :

Eligibility Criteria

Sl. No.	Conditions	Enclosed (Yes/No)	Page No												
1(a)	<p>Tenderer must have completed successfully and satisfactorily at least one work or maintenance of MW/UHF/Cellular towers for a period of at least twelve months, during the preceding Three years (i.e. current financial year and Three previous financial years) and cost of work being not less than 35% of the value of tendered work.</p> <p>Or</p> <p>Should have erected 5 (five) Microwave/UHF tower (self supported) having at least height of +35 metre during the preceding three years (i.e. current financial year and Three previous financial years) and cost of work being not less than 35% of the value of tendered work.</p>														
1(b)	<p>The total contract amount received by the tenderer during the last three years as per current ITCC/Audited balance sheet/turnover certificate should be a minimum of 150% of applied Tender Value of work. Offers not accompanied by ITCC/Audited balance sheet will not be considered.</p> <p>Please indicate the Annual Turnover for the last preceding three years duly enclosing the Chartered Accountant/ Auditor/ Authorized Certified documentary evidence :</p> <table><tr><th>Year</th><th>Annual Turnover</th><th>Documentary Support at page</th></tr><tr><td>2015 – 16</td><td></td><td></td></tr><tr><td>2014 – 15</td><td></td><td></td></tr><tr><td>2013 – 14</td><td></td><td></td></tr></table>	Year	Annual Turnover	Documentary Support at page	2015 – 16			2014 – 15			2013 – 14				
Year	Annual Turnover	Documentary Support at page													
2015 – 16															
2014 – 15															
2013 – 14															
1(c)	Tenderer should produce solvency certificate indicating the amount for 40% cost of the tender from a nationalized/Scheduled Bank. Offers not accompanied by solvency certificate will not be considered.														
2(a)	The tenderer should produce copy of Latest Income Tax return/PAN Number														
2(b)	The tenderer should produce Audited Balance Sheet and Income statement of all the Preceding Three financial years.														
3	The tenderer should enclose EMD as per item 10 of preamble of the tender document.														

Place

Date

(Signature of the Tenderer with Seal)

From

.....
.....
.....

To

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

OFFER LETTER

Sub: Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East-Coast Railway, East Central Railway, Northeast Frontier Railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd., Eastern Region for five years.

Ref: Tender Notice No. RailTel/Tender/OT/ER/HQ/2016-17/945-946, Dt. 11.05.2016

I/We the undersigned hereby offer to execute the agreement for the above work within seven days from the date of issue of letter of acceptance of the tender in strict compliance within the provision detailed in the tender paper attached.

I/we agree that this tender shall not be restricted or withdrawn and shall remain opened for acceptance for and during the period of 120 days from the date of opening of the tender.

I/We fully understand the terms and conditions as contained in the tender paper and we agree that the same shall apply to My/Our tender and I/we shall be bound by them.

Earnest money deposit of Rs..... (Rupees only) in the form of D.D. drawn in favour of RailTel Corporation of India Ltd., payable at Kolkata is enclosed.

The full value of the earnest money shall be forfeited without prejudice to any other right or remedies if : -

I/We do not execute the contract agreement within 7 days after the receipt of notice by the RailTel Corporation that such documents are ready. I/We do not commence work within 14 days from the date of issue of letter of acceptance. Until a formal agreement is prepared and executed, acceptance of this offer letter shall constitute a binding contract between us subject to modification as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer.

I enclose herewith the following documents in support of my credential:-

1)

- a.
- b.
- c.

2) Name and Qualification of Manager/Engineer (Structural Engineer), supervisor, Technician.

Yours sincerely.

Signature of the Tenderer

Seal of the Tenderer

Place

Date

Witnessed by :-

1. Signature :
 Name :
 Address :

2. Signature :
 Name :
 Address :



रेलटेल
RAILTEL

RailTel Corporation of India Ltd.

(A Monopsony Category - I Enterprise)

Work Specifications

1. Introduction

- 1.1 RailTel is engaged in the business of leasing out bandwidth on commercial basis to Railway and external agencies over RailTel's own OFC (Optical Fibre Communication) network.
- 1.2 RailTel, Eastern Region has about 242 MW/UHF towers on its OFC routes spread over South Eastern Railway, East Coast Railway, East Central Railway and South East Central Railway.
- 1.3 To maintain high availability of services along its telecom networks, RailTel intends to engage agencies for maintaining the Towers located over a section whose details are given in Annexure-A.
- 1.4 Engineer-in-Charge (EIC) shall mean Territory In-charges of RailTel acting on behalf of Executive Director of RailTel or authorized representatives of Territory-in-charges in the Territories. He is responsible for ensuring that all field works covered by the contract are carried out in accordance with approved design, drawings & specifications and conditions of contract as agreed to.

2. JURISDICTION :

List of towers to be maintained over Eastern Railway, South Eastern Railway, East Coast Railway, East Central Railway, North Frontier Railway and South East Central Railway is available at "Annexure-A".

3. DESCRIPTION OF WORK:

- 3.1 RailTel intends to award a contract to reputed contractors who are financially and technically meeting the eligibility criteria to undertake various activities required to maintain & ensure safety of the Tower.
- 3.2 The maintenance contractor is planned to be hired for a period of Five years extendable by further period of one year depending on the performance of the contractor on the same rate, terms & conditions of the contract. However, the Contract may be terminated by giving 30 days notice before the expiry of contractual completion period in case performance of the contractor is not found satisfactory or as and when required by RailTel.

4. DETAILED SCOPE OF WORK

The scope of work shall include but not limited to the following for the maintenance of MW/UHF Towers of RailTel's telecom network jurisdiction mentioned under "Annexure-A".

- 4.1 The tower maintenance work shall consist of cleaning of surrounding of tower base/support, fault tracing and checking of the below listed and other possible causes of fault, dismounting (if required) of the faulty part and mounting of the

repaired/new part/equipment. If dismantling is not necessary, rectification of the fault at its mounted position shall be done. All the tower maintenance works shall require climbing to the tower for fault localization / rectification. Operative and preventive maintenance of Telecom towers at different locations covering all telecom towers through a pool of qualified and trained workforce who are responsible for routine mechanical checkup, damage control of electrical and electronics equipments, working under fixed response time and safety as per relevant IS Specification, IS:7205.

The scope of the work is as follows:

Sl. No.	Item	Work involved
1.	Tower lights (As and when required/ Monthly)	Checking of tower lights, dismantling / repairing / replacement of faulty / defective bulbs, holders, wires, aviation lamp dome cover etc with new one to make it functional. This includes provision of additional aviation lamp, if required. Cost of materials for additional aviation lamp / repair of existing lamp (including wire, lamp etc) will be reimbursed by RailTel on actual.
2.	Tower nut / bolts tightening / greasing and tightening of guy wire (Every Year)	Checking of correct torque of nut bolts & replacing defective / rusted / missing nuts & bolts, if any. Suitable record of tightening of bolts to be kept as per table No. C. Bolts and nuts shall be tightened by using part turn method. Nuts may be tightened by calibrated wrench so that the proof load of the bolt specified in IS 1367 is achieved. "Snug tight is defined as the tightness attained by a few impacts of an impact wrench. Following this initial operation, bolts shall be placed in remaining holes in the connection and brought to snug tight position". Members of components, which are dented, bent or twisted, shall be replaced. If any defect or deficiency in the member comes to notice, the same shall be rectified. Aged items shall be replaced. The shear, bearing & tension strength of nuts and bolts shall be in accordance with IS:800. The bolts and nuts shall be procured from reputed manufacturers by contractor/contracting firm. Inspect the condition of the wire ropes (steel guy wire), regularly for any signs that the grease on them is thinning or has washed off completely and keep them well greased. Similarly, inspect the condition of the winches carefully and re-grease them if necessary. Tighten the guy wire as per standard practice. Cost of materials (nuts, bolts, graphite grease, guy wire etc) will be reimbursed by RailTel on actual.
3.	Earthing System	Checking the condition of each earth & complete tower earthing arrangement and to ensure proper maintenance

	(Every Six Months)	<p>of earthing arrangement so as to achieve earth resistance values less than one Ohm for each earth. This includes checking of continuity of connections between earth electrode and tower, Testing and preparation of report showing all measurements, Corrective action taken and rectification of the defects, if any, noticed. In case value of earth resistance exceeds one ohms the same should be brought to below one ohm either by treatment of soil or by providing additional earth.</p> <p>Cost of providing additional earth will be reimbursed by RailTel on actual.</p>
4.	Verticality Check & level of top of Foundations. (Every year)	<p>Verticality of the tower shall be checked on every year and corrective action shall be taken for rectification on the deviation, if any, noticed. The tower shall be vertical all the time and no straining shall be permitted to achieve this. The erection tolerance of verticality shall be within 25 mm for every 9100 mm, subject to over all verticality of tower within 50 mm, corrective action shall be taken to achieve the same.</p> <p>If it is found that the deviation from straightness of a member of length “L” exceeds .001 L or 10mm whichever is less or the member is otherwise distorted, temporary members shall be inserted to relieve the distressed member and complete the rectification. The top horizontal member of tower on all the four faces should have center clearly and visibly marked for easy check of verticality.</p> <p>The successful contractor / contracting firm will have to satisfy RailTel authority that verticality of tower is maintained within 50mm o full height of tower at site on two adjacent faces. The maximum deflection of the axis of tower shall not be more than 1/100 from vertical at various levels including the top, under maximum wind and other critical loading conditions.</p>
5.	Painting / Galvanizing finishing (Once in the contract period of 5 years, but, within first six months after issue of LOA)	<p>The paints used in painting shall be in accordance with IS-2074/62. Before applying coats of paint, surface shall be given a coat of Pickling agent so as to avoid the flaking of painting.</p> <p>The painting shall be done carefully so that all corners and crevices of the mast receive the paint and no base surface is left exposed anywhere. Special care is to be taken in applying paint at the places where galvanized coating has got removed. No driers such as Litharge or Turpentine are to be used. The practice of mixing kerosene oil with paint is strictly forbidden. Paints shall be of the best quality of synthetic enamel paint, it shall be anticorrosive and withstand exposures to outside</p>

		conditions. All material required for the work will have to be supplied by the contractor to achieve end objective.
6.	Cleaning at the Tower base & surroundings (Monthly/ As and when required)	Cleaning shall consist of cleaning of surrounding of tower base/support, Cleaning of surrounding of Towers and approach road covered by thick vegetation, weeds and plants,, making arrangement to reach the towers crossing water logged zones, removing bee hives using chemical spray for smooth execution of maintenance work. All material required for the work will have to be supplied by the contractor to achieve end objective.

4.2 Instruction for Tower Painting

Painting process consists of:-

- 4.1.1 Cleaning: The tower structure members namely angles, Tees, plates, ladders, racks etc are galvanized. The dust, dirt grease and rust should be removed by wire brushing and cleared with piece of cloth.
- 4.1.2 Application of the Wash or etch primer: After cleaning the tower members, a first coat of an Etch primer has to be applied to the tower structure members. The Etch primers consist of polyvinyl butyrol phosphoric acid catalyst & Zink chromate base and are supplied separately. They should be mixed before use, as specified ratio of four parts base to one part catalyst or as specified by the manufacturer. The primer is to be applied uniformly to get a very thin and almost invisible coat and every part of the tower structure should be treated with this primer. The subsequent painting of the Zink chromate primer should be commenced within two hours of application of primer. The etch primer once mixed should be used up early.
- 4.1.3 Painting: The first coat of paint should be applied carefully well brushed in to the surface, comers, crevices etc. Painting should be uniform and even. The second coat of paint should be applied 48 hrs after the application of the first coat. Care should be taken to see that painting is not carried out at the highest time of the day and air pockets should be avoided.
- 4.1.4 Orange and white bands (Day Marking): To confirm to civil aviation regulations the mast shall be painted in alternate bands of international orange and international white terminating with orange at top and bottom. Height of the each band should not be exceeding 6 meters and should not be less than 0.5mtr. The correct shade for the international orange correspondence to ISI shade 592 as

given in the Indian Standard Institution publication, Indian Standard colors for ready mixed paint.

- 4.1.5 Special Remarks: The painting shall be done carefully so that all corners and crevices of the mast receive the paint and no base surface is left exposed anywhere. Special care is to be taken in applying paint at the place where galvanized coating has got removed.
- 4.1.6 No driers such as litharge or Turpentine are to be used. The practice of mixing kerosene oil with paint is strictly forbidden.
- 4.1.7 Paints: Paints should be synthetic enamel of the best quality and anti corrosive and should withstand exposure to outside conditions. They should be of standard quality equivalent to synthetic enamel paints of Shalimar or British paints of Asian paints.
- 4.1.8 Galvanizing, painting & Metal losing.
- 4.1.9 All members and fasteners of tower structure should be galvanized. Galvanizing of members of the tower shall be confirmed to IS 4750. Bolts and fasteners shall be galvanized in accordance with IS 5358. Spring washers shall be galvanized in accordance with IS 1573.
- 4.1.10 Painting: If the member is already galvanized, the surface shall be prepared by etch paint and a primer of ready mixed red oxide with Zink chromate to IS 2074 may be applied. The painting of MW tower including provision of the day marking according to civil aviation regulations have to be done as per above.
- 4.2.11 **Documents to be maintained:** Result of inspection and work carried out shall be recorded systematically in microwave tower inspection register, as per (A), (B), (C), (D), (E), (F), (G), (H) formats. Two hard copies and one copy of complete documents, along with the installation details, in Hindi or English shall be provided by the contractor. **In the event of failure of contractor to undertake periodical activity/submission of report** penalty will be imposed as detailed in page 29 under the head Penalties. In addition to above, the contractor may add additional formats for maintaining records.

4.2 Microwave Tower Registers:

A GENERAL

SL No.	Description	Observation
1	Location of tower	
2	Longitude	
3	Latitude	
4	Height of tower	
5	Site plan number	
6	Drawing number of tower	
7	Drawing number of foundation	
8	Bench mark	
9	Soil classification and bearing capacity	
10	Completion date of foundation	
11	Completion date of tower (erection)	
12	Date of Inspection / maintenance	
13	Section	
14	Bolts & Nuts with size (for towers)	Numbers
A	40 mm dia (say)	40 (say)
B	32 mm dia	...
C	28 mm dia	...
D	20 mm dia	...
E	16 mm dia	...
F	12 mm dia	...
G	10 mm dia	...
H
I
J

B TOWER LIGHTS (AS AND WHEN REQUIRED/MONTHLY)

S. No.	Date of Inspection	Condition of Tower Lights	Date reported defective	Repaired on	Remarks

C BOLT INSPECTION AND MAINTENANCE (Every year)

Date starting	of	Date of completion	Panel No.	Total Bolts & Nuts panel wise	No. of bolts found loose and tightened	No. of Nuts & washers found missing & replaced with size	Remarks and signature

					(mm)	

D EARTHING OF SYSTEM (Once in 6 months)

Date of Inspection	Earthing No.	Condition of Earth connection at Electrode end	Condition of Earth connection at tower end	Earth Resistance value (ohms)	Work done
	1				
	2				
	3				
	4				

E. SETTLEMENT OF FOUNDATION (Every year)

Date of Inspection	Leg No.	Reference level of top of concrete at the time of commissioning/first inspection of tower	Reference level at the time of subsequent inspection	Remarks
	1			
	2			
	3			
	4			

F. VERTICALITY OF TOWER (Every Year)

Date of Inspection	Deviation from vertical (mm)								Remarks regarding remedial measure
	Along side 1-2				Along side 2-3				
	Top	¾	Mid point	¼	Top	¾	Mid point	¼	

G. CORRECTION OF DISTORTION OF MEMBERS/ GUSSETS

(Once in the contract period of 5 years, but within first six months after issue of LOA)

Date of inspection	Panel No.	Member / Joint No.	Length	Deviation from straightness	Action taken

H. PAINTING / GALVANIZING

(Once in the contract period of 5 years, but within first six months after issue of LOA)

Date of Inspection	General condition	Members requiring attention			
		Panel No.	Member No.	Extent of corrosion	Action taken

I. CLEANING AT THE TOWER BASE AND SURROUNDINGS

Sl. No	Date of Inspection	General condition	Remarks	Signature by Officials / Officers

The acceptance of any part or items shall in no way relive contractor / tenderer of any part of his responsibility for meeting all the requirement of the specification of the tower. The routine maintenance work shall be carried out *as per the periodicity mentioned against each item as appearing under 4.2 above* (once in a month) at all the locations. In case of emergency maintenance work, the contractor shall make available sufficient manpower for ensuring proper rectification of the fault within one day of intimation to the contractor. All the relevant IS should be available with contractor.

4.3 INSTRUCTIONS/GUIDELINES FOR INSPECTION

While carrying out the inspections as per schedule given in para 4.1, following instructions/guidelines to be followed:

- 4.3.1 Contractor'/Contracting firm's Engineer/Supervisor (Structural Engineer) along with their Maintenance team shall jointly inspect with RailTel staff/officer as per

schedule indicated in Para 4.1 and record their observations in the inspection register jointly. RailTel officials would advise promptly to the contractor / contracting firm, if any immediate remedial action is called for. This inspection should cover the following aspects:

- a) Checking distortion of members using piano wire and scale, if necessary
- b) Checking of corrosion
- c) Checking of earthing and its measurement.
- d) Level of top of foundations
- e) Verticality check
- f) Condition of Painting / Galvanizing and its finishing

4.3.2 Levels of the nominated points on top of foundation for all towers shall be recorded once in a year with contractor / contracting firm.

4.3.3 The inspection and maintenance of microwave towers shall be done in accordance with the provision in Chapter XXIII-Inspection and maintenance of buildings and structures other than bridges of the Indian Railways Way and Works manual.

4.3.4 All towers would be maintained as per the guidelines summarized under RDSO's guidelines and the instructions that may be issued by RDSO, Railway Board and RailTel on this subject from time to time.

4.4 Bolts and nuts in all towers shall be jointly checked once every year or as and when required.

4.5 Results of inspection shall be recorded systematically in the microwave tower inspection register, as per format given in Para 4.2. Copies also to be submitted by the contractor / contracting to Territory-in-charge and Eastern Regional Office of RailTel.

4.6 INSPECTION OF MICROWAVE/UHF TOWERS BY MANAGER / SR. MANAGER, RAILTEL

In addition to the above scheduled inspections, visual inspection of the tower and checking of inspection records shall be carried out by Manager/Sr. Manager/Officer nominated by Territory-in-charge. Deficiencies pointed out thereof are to be attended by the contractor/contracting firm. Detailed inspection of all the towers shall be done at least once in a year in presence of Manager/Sr. Manager of RailTel.

4.7 ADDITION & ALTERATIONS TO THE ANTENNA OR MOUNTING ARRANGEMENTS BY THE CONTRACTOR / CONTRACTING FIRM

Additions or alterations to the antenna or their mounting arrangements, after their initial erection and commissioning, shall be done only after obtaining approval of ED, RailTel.

4.8 PEREMISSIBLE TILT

- 4.8.1 If measurement of the settlement of foundation and on deriving the tilt of the tower if it is found that the vertical through the centre of gravity falls at a point on the base at a distance from the centre of more than 10% of the base width, the tower shall be kept under close observation and safety precautions also shall be taken by contractor/contracting firm.
- 4.8.2 If the tilt of the tower exceeds 1/200, immediate action should be taken by the contracting firm to arrest tilt and carry out rectification.

If it is found that the deviation from straightness of a member of length 'L' exceeds .001 X L or 10 mm whichever is less, or the member is otherwise distorted, temporary members shall be inserted to relieve the distressed member any complete the rectification by the contracting firm as considered necessary by ED/RailTel.

5 Responsibilities of Contractor while maintaining the towers

- 5.1 Maintenance support team, while on visit to tower site, shall have mast-fitter, supervisor and necessary number of helpers for the maintenance activity undertaken. The team shall be equipped with tools, equipment and safety gadgets like honey-bee masks, safely belt, safety foot-wear, helmet, hand gloves, safety goggles, rain gears, VHF sets etc to their personnel while attending Tower maintenance.
- 5.2 Contractor shall indemnify RailTel Corporation regarding penalties arising out of non-compliance of statutory regulations (labour laws, minimum wages act) as well as damage to Railway/RailTel properties.
- 5.3 Maintenance team under Contractor's Manager/Engineer shall be deployed at Kolkata / Asansol for Eastern Railway towers, at Patna for East Central Railway towers, at Kharagpur for South Eastern, South East Central & East coast Railway towers, at Guwahati for NF Railway towers. Contact details (address and mobile number) of Manager/Engineer in-charge of each team shall be intimated to RailTel's Eastern Region office within 14 days from the date of issue of Letter of Acceptance.
- 5.4 In case of damage / disturbances due to heave rains/heavy wind/cyclone, etc. restoration to be done, to the extent possible, within provisions of maintenance agreement, however, if such damage/disturbance, requires additional work like replacement of damaged tower member, fitting arrangements, aviation lamps, earthing, re-alignment, re-painting etc., cost will be assessed by RailTel, for both material and labour portion, and with mutual consent, can be executed by the contractor.

Also, in normal conditions, call-based attending of failure/deficiency noticed to be done within reasonable time, as decided by territory-in-charge. **In the event of failure of contractor to complete the work penalty will be imposed as detailed in page 32 under the head Penalties.**

- 5.5** First time joint inspection will be done by RailTel, Railway and contractor's representative within 1 month of issue of LOA and if any tower is found in unmaintainable condition shall be notified by contractor and will not be included in the schedule. Thereafter, maintenance of the balance tower including safety of structure will be responsibility of the contractor. A declaration shall be obtained to this effect from the contractor. Failure / delay of the contractor in maintenance of tower and to undertake periodical activity/submission of report, penalty will be imposed as detailed in page 31 under the head Penalties.
- 5.6** In the event of reduction in the number of towers to be executed for any reason whatsoever, the contractor shall not be entitled for any compensation but shall be paid only for the actual quantity of work done at the accepted rate.
- RailTel also reserves the right to add or delete the number of towers to be maintained for any section. However, payment will be made on pro-rata basis on the accepted rate.
- 5.7** THE CONTRACTOR shall be responsible for making an arrangement for deployment of adequate maintenance equipment and manpower at each maintenance location so as to complete all maintenance works given in schedule in time. This includes testing, measuring, provision of transport facilities for their teams & other logistic supports required. The contractor shall make arrangements for transportation of his personnel & material to all sites at his risk and cost and shall make necessary arrangements for the accommodation for their personnel if required during the contract period. RailTel shall not provide accommodation to any of the personnel employed by the contractor and shall not entertain any claim for expenditure incurred on this account.
- 5.8** The material used & workmanship in maintenance work shall satisfy the applicable standard Specifications.
- 5.9** RailTel shall be entitled to reject the goods, materials and work executed by the contractor, which may not be conforming to the specifications within a reasonable time of usage of the said goods and materials and charge the contractor for all expenses direct and consequential, incurred thereby.
- 5.10** Where it is mentioned in the specifications that the CONTRACTOR shall perform certain work for completing the job in totality, it is understood that the contractor shall do so at his own cost and it is deemed that all incidental costs have been included in the contract price for such performances and provisions so mentioned.
- 5.11** The CONTRACTOR shall be totally responsible for the functionality of equipment to be used at site.
- 5.12** During any inspection/rectification work in public places, all precautionary caution boards, barricading sheets as per standard laws & rules to be used by the Contractor at his own cost.

- 5.13** During the course of execution of the work, if any discrepancy or inconsistency, error or omission in any of the provisions of the contract is found which needs to be clarified, the matter shall be referred to ED/Territory in charge, who shall give his decision in the matter and his decision shall be final and conclusive.
- 5.14** The contractor should ensure that the team deployed by him shall not move or trespass to areas other than the site(s) required for the execution of the work. The contractor is responsible for the safety of team members while executing the work in the Railway areas. Under no circumstances the Contractor should infringe and carry out the work which hampers the Operations and Safety of the Railways, train movements and damage of Railway assets. Contractor may be penalized for careless / improper working in Railway premises.
- 5.15** The works must be carried out most carefully without any deviation as mentioned in the Indian Railway Act or the General and Subsidiary Rules in force on Railways.
- 5.16** The work is subjected to inspection at all times by RailTel officials. The CONTRACTOR shall carry out all instructions given by him or his representatives during inspection.
- 5.17** Any work not confirming to the execution plans, standard specification codes or engineering practices shall be rejected forthwith and the CONTRACTOR shall carry out the rectification at his own cost.
- 5.18** The CONTRACTOR shall observe in addition to codes specified in respective specification, all national and local laws, ordinances, rules and regulations and requirements pertaining to work and shall be responsible for extra costs arising from violations of the same, which shall be borne by the Contractor.
- 5.19** By entering into the maintenance contract with RailTel, the contractor shall agree to maintain the secrecy of all documents / information / drawings etc provided by RailTel during the period of contract and shall return back all the documents immediately after the termination of the contract.
- 5.20** The CONTRACTOR shall depute experienced / competent representative(s) at site during the execution of any job. Any instructions given to such representative(s) shall be construed as having been given to the CONTRACTOR.
- 5.21** The CONTRACTOR shall be solely responsible for making available all-requisite equipment, special aids, tools, tackles and testing equipment and appliances etc.
- 5.22** Within the RailTel's premises, the representative of the CONTRACTOR shall take care for not tampering with the RailTel/Railway's installed equipments.
- 5.23** The accessing of RailTel's facilities shall be allowed to authorize person from CONTRACTOR's side with the prior intimation to RailTel's Engineer-in-Charge.
- 5.24** It is advisable that Tenderers must visit site to familiarize themselves with all constraints, restrictions, access requirements and available infrastructure. The

CONTRACTOR shall not be eligible for any adjustment in cost and time, on account of any lack of data regarding above. However, the tower/reflector details are enclosed for reference in Annexure-A.

5.25 While executing the job at site by the CONTRACTOR, penalty claimed against any damage caused to the infrastructure of RailTel & other parties shall be borne by the Contractor.

5.26 The CONTRACTOR shall be totally responsible for the successful execution of the tower maintenance contract.

5.27 The CONTRACTOR becomes defaulter on the following conditions:

- a. If he fails to repair and make the tower to normal condition as instructed by RailTel engineer in charge.
- b. Improper maintenance resulting in loss/damage to tower parts.
- c. Loss or damage to RailTel's property due to the acts of Contractor.
- d. In the event RailTel receive notice from any statutory authorities or from external agencies on account of loss/damage to their property due to the acts of contractor.
- e. During the contract period, if the CONTRACTOR has defaulted more than once of the defaulting case of the Contractor is severe, then RailTel has the right to terminate the contract and forfeit the security deposit/PBG if deemed required as per RailTel's opinion.

f. Termination of Contract : RailTel reserves the right to interrupt and terminate the contract at any time after giving one month's notice, should in RailTel's opinion, the cessation of work become necessary, owing to paucity of funds of the Contractor, the Contractor's apparent inability to perform, non possession of equipments and tools required for the work or defective and mal-functioning equipments, non-availability of proper/nominated instrumentation, inability to provide men and material or for any other cause deemed reasonable. In such case, the value of approved materials utilized at site and of certified and accepted work done to date by the Contractor as per contract agreement shall be paid for in full at the rates specified in the Contract subject to the clause of Liquidated damages contemplated herein.

All such materials become the property of the RailTel. Notice in writing from the RailTel of such termination and reason thereof shall be conclusive evidence of taking over of works from the contractor. The security deposit/PBG will be forfeited in such case of termination if deemed required as per RailTel's opinion. **In case of premature withdrawal (before the completion of the tenure agreed) of the Team by the contractor for any reason whatsoever, the entire Security Deposit and Performance Guarantee shall be forfeited by RailTel. Also in case the premature withdrawal is without at least one month's notice, additionally the maintenance charges for the last two months shall also be forfeited.**

6 COMPLIANCE WITH LABOUR, INDUSTRIAL & ENVIRONMENTAL LAWS LABOUR LICENSE:

- 6.1** Before starting of work, the CONTRACTOR shall obtain a license from concerned authorities if required under the Contract Labour (Abolition and Regulation) Act 1970.
- 6.2** The Contractor shall at its expense, ensure due compliance with all applicable and governing Industrial, environmental and Labour Laws, Rules, Regulations and Bylaws both of the Central and State Govt. and all other local authorities and shall keep RailTel harmless and indemnifies in respect thereof. The CONTRACTOR shall ensure due compliance with the provisions of the relevant minimum Wage Act, payment of Wages, Contract Labour (Regulations & Abolition) Act, Employees Provident Fund Act and other industrial and environmental laws in force.
- 6.3** **Indemnification of RailTel by the contractor.** The contractor shall indemnify the Company against all losses or damages, if any, caused to it on account of acts of the personnel deployed by him. The contractor shall ensure regular and effective supervision and control of the personnel deployed by him and gives suitable direction for undertaking the contractual obligations.
- 6.4** **Force Majeure:** Both the parties agree that neither party shall be liable for each other for delay or non-performance of respective obligations in the event beyond the control of each party which can be termed as force majeure.

6.5 SETTLEMENT OF DISPUTE AND ARBITRATION

- 6.5.1** Any dispute or difference whatsoever arising between the parties out of or relation 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 Conciliation Act, 1996.
- 6.5.2** The sole arbitrator shall be appointed by the Managing Director or RailTel Corporation of India Limited. It is expressly understood between the parties that no objection shall be raised at any time after execution hereof to the appointment of the arbitrator by the Managing Director of RailTel Corporation of India Limited including that the person appointing the arbitrator is connected to and /or employed with the RailTel Corporation of India Limited.
- 6.5.3** The venue of the arbitration shall be at Kolkata. The arbitration proceedings shall be conducted in English and cost of the arbitration shall be borne between the parties in equal proportion.
- 6.5.4** The Arbitrator shall give a reasoned award, which shall be binding on the parties.

- 6.6** Warranty: All material supplied/used and the work done by the contractor shall be guaranteed against the defective manufacture / workmanship for a period of one year from the date of completion of the contract.

7 PAYMENT TERMS:

Payment against maintenance work will be made as follows:

SOR item no.	SOR item	Periodicity of activity	Payment terms
1.	Tower light maintenance as per the scope of work	As and when required/ Monthly	Half-yearly basis
2.	Tower nut/bolts tightening / greasing and tightening of guy wire as per the scope of work	Every year	Half-yearly basis
3.	Maintenance of Earthing System as per the scope of work.	Every six months	Half-yearly basis
4.	Verticality check and level of top of foundations as per the scope of work	Every year	Half-yearly basis
5.	Repainting / Painting, Galvanizing as per the scope of work.	Once in 5 years within 1 st 6 months of the acceptance of LOA	70% of value : After completion of work 10% of value : One year after completion of work 10% of Value : 2 years after completion of work 5% of value : 3 years after completion of work 5% of value : On completion of tenure
6.	Cleaning at the Tower base and surroundings	As and when required/ Monthly	Half yearly

- 7.1** Payment will be made by RailTel on certification of work associated with each tower by respective AM (100% test check), Manager/Sr. Manager nominated by territory-in-charge (20% test check) and certification by Territory-in-charge or any other RailTel officer authorized by ED/ER RailTel.
- 7.2** Maintenance charges will be made to the CONTRACTOR as indicated above, subject to submission of reports as per scope of work.
- 7.3** **It may please be noted that painting/galvanizing is to be done only once in the contract period of 5 years and the same should be done within 6 months of the issue of LOA, failing which bill for first 6-month period will not be admitted.**
- 7.4** Along with the bill for payments for the respective sections, the following documents must be submitted duly certified by the RailTel's representative:
1. Periodic Inspection Reports as per scope of work.
 2. Any other Recovery for contractor's fault.
 3. All statutory deductions in terms of Para 8.5 & 8.6 will be made
- 7.5 Price Variation:** Price Variation will not be allowed during the currency of contract.
- 7.6** No advance payment will be made.
- 7.7 Security Deposit**
- 7.7.1** On receipt of the letter of LOA, successful tenderer shall be required to deposit a sum amounting to 5% of the contract value towards Security Deposit for the due and faithful fulfillment of the contract. The Security Deposit shall be submitted before signing of the Contract Agreement. The Earnest Money deposited by the successful tenderer with his tender will be returned by RailTel on submission of Security Deposit.
- 7.7.2** The instrument for Security Deposit to be paid in the form of Bank Draft or Deposit Receipt or in the form of irrevocable Bank Guarantee either from State Bank of India or any of the Nationalized / Scheduled Bank. The instrument should be valid two months beyond the contract period.
- Security Deposit shall be returned to the contractor after expiry of contract period and on certification of physical completion of the work by RailTel engineer in charge after deduction any amount due to damages etc.
- 7.7.3** No interest will be payable upon the Earnest Money and Security Deposit or amounts payable to the Contractor under the Contract.
- 7.8 CONTRACT PERFORMANCE GUARANTEE (PBG)**
- 7.8.1** On receipt of the Letter of Acceptance of Tender from the RailTel, the successful Tenderer should give a Performance Guarantee in the form of irrevocable bank

guarantee from State Bank of India/any Nationalized Bank or from any Scheduled Bank in the Form given in Tender document amounting to 5% of the contract value.

7.8.2 The Performance Guarantee should be furnished by the successful contractor after letter of acceptance has been issued before signing of the agreement. The agreement should normally be signed within 15 (fifteen) days after issue of LOA and Performance Guarantee should also be submitted within this time limit. The Instruments for Performance Guarantee should be valid for two months beyond the warranty period (Clause 6.6).

7.8.3 Performance Guarantee shall be released after satisfactory completion of the work, and on expiry of the warranty period. The procedure for releasing should be same as for Security Deposit.

7.8.4 Wherever the contracts are rescinded, the security deposit should be forfeited and the Performance Guarantee shall be en-cashed and the balance work should be got done separately.

7.8.5 The balance work shall be got done independently without risk and cost of the original contractor.

7.8.6 The original contractor shall be debarred from participating in the tender for executing the balance work. If the failed contractor is a Joint Venture (JV) or a partnership firm, then every member/partner of such a firm would be debarred from participating in the tender for the balance work either in his/her individual capacity or as a partner of any other JV/partnership firm.

8 FURTHER INSTRUCTIONS REQUIRING ATTENTION OF TENDERER BEFORE SUBMITTING OFFER

8.1 While quoting, it is advisable that the prospective Tenderer shall make themselves fully conversant with the locations and types of towers & jobs in details to be carried out therein as per the tender requirement, so that they clearly understand the scope of work and assess the requirement of resources to complete the work in scheduled time.

8.2 The tenderer is deemed to have understood the conditions of existing tower locations, routes like terrains, various crossings, across details, on-route RailTel's maintenance bases etc., by visiting the sites and collecting first hand information before submission.

8.3 The data provided in the Tender document shall be used by the Tenderer for reference and information purpose only. It shall be the Tenderer's responsibility to verify the data satisfy himself in regard to accuracy of data.

8.4 Tenderer are advised to submit their quotations strictly based on the terms, conditions, and specifications in the tender document and not to stipulate any

deviations. Should any deviation become unavoidable, the Tenderer should mention it. RailTel reserves the right to evaluate offer containing deviations having financial implications after adding cost of such deviations as determined by RailTel.

- 8.5 INCOME TAX:** Income Tax at the prevailing rate as applicable from time to time shall be deducted from the CONTRACTOR's bills as per Income Tax Act and quoted Rates shall be deemed to include this.
- 8.6 TAXES, DUTIES, OCTROI, LEVIES ETC:** The quoted percentage prices shall be inclusive of all taxes, duties, Octroi, levies, service tax, work contract tax, VAT if any etc. till the completion of the contract and the CONTRACTOR shall not be eligible for any compensation on this account. The CONTRACTOR shall furnish the breakup of taxes so that any credit, if applicable, can be claimed by RailTel.
- 8.7 ESCALATION:** The maintenance charges quoted by the CONTRACTOR shall be kept firm till the completion of entire period of contract, and no Price Escalation shall be paid on any ground.



रेलटेल
RAILTEL

RailTel Corporation of India Ltd.

(A Monopsony Category - I Enterprise)

Penalties

Failure/delay of the contractor in maintenance of tower, failure to undertake Periodical activity / submission of report will attract penalty, details are as under:

SN	Description of deficiencies	Penalty
1.	Non attending failure of Tower light within 24 hrs	Rs. 300/- per day
2.	Failure to complete Tower nut / bolts tightening / greasing and tightening of guy wire within one year	Rs. 300/- per day per tower
3.	Non measurement of Earth resistance beyond 15 days of schedule	Rs. 600/- per day per station
4.	Non completion of verticality check & Level of top of foundation / submission of report and corrective action for rectification within six months	Rs. 3,000/- per tower per fortnight or part thereof
5.	Non completion of painting /galvanizing within six months	Rs.5,500/- per tower per fortnight or part thereof
6.	Non-cleaning of surroundings of Tower base, approach road, water logged zones in every month.	Rs. 300/- per day

Schedule of Works & Material Rates

Tender No. RailTel/Tender/OT/ER/HQ/2016-17/945 Dt. 11.05.2016

Name of Work : Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East-Coast Railway, East Central Railway, Northeast Frontier Railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd., Eastern Region for five years.

Section- 1 : South Eastern Railway, South East Central Railway & East Coast Railway

Section HQ : Kharagpur

Sl No.	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
1	Tower Light & maintenance as per the scope of work						
a)	Tower height 100 + mtr.	6	360	547.16	1,96,978.32		
b)	Tower height 80 – 99 mtr.	14	840	450.69	3,78,578.51		
c)	Tower height 60 -79 mtr.	7	420	387.33	1,62,679.90		
d)	Tower height 40 – 59 mtr.	7	420	289.42	1,21,556.36		
e)	Tower height 20 – 39 mtr.	16	960	192.95	1,85,228.74		
f)	Tower height < 20 mtr.	1	60	96.47	5,788.40		
	Amount (Rs.) --->	51			10,50,810.22		
Periodicity : Monthly/ As and when required							

Sl. No.	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
2	Tower nut/bolts tightening /greasing and tightening of guy wire as per the scope of work						
a)	Tower height 100 + mtr	6	30	6069.36	1,82,080.80		
b)	Tower height 80 – 99 mtr.	14	70	5015.21	3,51,064.56		
c)	Tower height 60 – 79 mtr.	7	35	4296.47	1,50,376.38		
d)	Tower height 40 – 59 mtr.	7	35	3226.34	1,12,922.04		
e)	Tower height 20- 39 mtr.	16	80	2156.22	1,72,497.60		
f)	Tower height < 20 mtr.	1	5	1070.12	5,350.62		
	Amount (Rs.) --->	51			9,74,292.00		
Periodicity : Once in 12 months							

Sl. No.	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
3	Maintenance Earthing System as per the scope of work						
a)	Tower height 100 + mtr.	6	60	3007.09	1,80,425.52		
b)	Tower height 80 – 99 mtr.	14	140	2476.89	3,46,765.19		
c)	Tower height 60 -79 mtr.	7	70	2128.70	1,49,009.32		
d)	Tower height 40 – 59 mtr.	7	70	1590.59	1,11,341.54		
e)	Tower height 20 – 39 mtr.	16	160	1060.40	1,69,663.30		
f)	Tower height < 20 mtr.	1	10	530.20	5,301.98		
	Amount (Rs.) --->	51			9,62,506.84		
Periodicity : Once in 6 months							

Sl No.	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
4	Verticality check and level of top of foundations as per the scope of work						
a)	Tower height 100 + mtr.	6	30	6140.65	1,84,219.60		
b)	Tower height 80 – 99 mtr.	14	70	5060.80	3,54,256.06		
c)	Tower height 60 -79 mtr.	7	35	4335.53	1,51,743.44		
d)	Tower height 40 – 59 mtr.	7	35	3255.67	1,13,948.60		
e)	Tower height 20 – 39 mtr.	16	80	2175.82	1,74,065.76		
f)	Tower height < 20 mtr.	1	5	1079.85	5,399.26		
	Amount (Rs.) --->	51			9,83,632.72		
Periodicity : Once in 12 months							

Sl. No	Description of work	Nos. of towers	Total no. of job	Estimate d unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
5	Re-painting/ painting, Galvanizing as per the scope of work						
a)	Tower height 100 + mtr.	6	6	69060.75	4,14,364.50		
b)	Tower height 80 – 99 mtr.	14	14	60984.00	8,53,776.00		
c)	Tower height 60 -79 mtr.	7	7	48732.75	3,41,129.25		
d)	Tower height 40 – 59 mtr.	7	7	36572.25	2,56,005.75		
e)	Tower height 20 – 39 mtr.	16	16	24411.75	3,90,588.00		
f)	Tower height < 20 mtr.	1	1	12160.50	12,160.50		
	Amount (Rs.) --->	51			22,68,024.00		
Periodicity : Once in 5 Year							

Sl. No	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
6	Cleaning at the Tower base & surroundings						
a)	Tower height 100 + mtr.	6	360	547.16	1,96,978.32		
b)	Tower height 80 – 99 mtr.	14	840	450.69	3,78,578.51		
c)	Tower height 60 -79 mtr.	7	420	387.33	1,62,679.90		
d)	Tower height 40 – 59 mtr.	7	420	289.42	1,21,556.36		
e)	Tower height 20 – 39 mtr.	16	960	192.95	1,85,228.74		
f)	Tower height < 20 mtr.	1	60	96.47	5,788.40		
	Amount (Rs.) --->	51			10,50,810.22		
Periodicity : Monthly/ As and when required							
Total Amount (Rs.) =					72,90,076.00		

Signature of tenderer

Note :

1. In case of any discrepancy between the percentage of rate quoted (Above / Below) in figures and words, the rate quoted in words will be considered as final. Rate to be quoted should be inclusive of all taxes & duties.
2. Summary of Maintenance activities of periodicity, towers to be maintained height-wise in South Eastern Railway, East Coast Railway and South East Central Railway is enclosed.
3. Entire list of towers is in Annexure-A.

Schedule of Works & Material Rates

Tender No. RailTel/Tender/OT/ER/HQ/2016-17/946 Dt. 11.05.2016

Name of Work Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East-Coast Railway, East Central Railway, Northeast Frontier Railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd., Eastern Region for five years.

Section – 4 Northeast Frontier Railway

Section HQ: Guwahati

Sl. No.	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
1	Tower Light & maintenance as per the scope of work						
a)	Tower height 100 + mtr.	5	300	547.16	1,64,148.60		
b)	Tower height 80 – 99 mtr.	5	300	450.69	1,35,206.61		
c)	Tower height 60 -79 mtr.	8	480	387.33	1,85,919.89		
d)	Tower height 40 – 59 mtr.	27	1620	289.42	4,68,860.24		
e)	Tower height 20 – 39 mtr.	25	1500	192.95	2,89,419.90		
	Amount (Rs.) --->	70			12,43,555.24		
Periodicity: Monthly/ as and when required							

Sl. No.	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
2	Tower nut / bolts tightening / greasing and tightening of guy wire as per the scope of work						
a)	Tower height 100 + mtr	5	25	6069.36	1,51,734.00		
b)	Tower height 80 – 99 mtr.	5	25	5015.21	1,25,380.20		
c)	Tower height 60 – 79 mtr.	8	40	4296.47	1,71,858.72		
d)	Tower height 40 – 59 mtr.	27	135	3226.34	4,35,556.44		
e)	Tower height 20- 39 mtr.	25	125	2156.22	2,69,527.50		
	Amount (Rs.) --->	70			11,54,056.86		
Periodicity : Once in 12 months							

Sl. No.	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
3	Maintenance Earthing System as per the scope of work						
a)	Tower height 100 + mtr.	5	50	3007.09	1,50,354.60		
b)	Tower height 80 – 99 mtr.	5	50	2476.89	1,23,844.71		
c)	Tower height 60 -79 mtr.	8	80	2128.70	1,70,296.37		
d)	Tower height 40 – 59 mtr.	27	270	1590.59	4,29,460.22		
e)	Tower height 20 – 39 mtr.	25	250	1060.40	2,65,098.90		
	Amount (Rs.) --->	70			11,39,054.80		
Periodicity : Once in 6 months							

Sl. No.	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
4	Verticality check and level of top of foundation as per the scope of work						
a)	Tower height 100 + mtr.	5	25	6140.65	1,53,516.33		
b)	Tower height 80 – 99 mtr.	5	25	5060.80	1,26,520.02		
c)	Tower height 60 -79 mtr.	8	40	4335.53	1,73,421.07		
d)	Tower height 40 – 59 mtr.	27	135	3255.67	4,39,516.04		
e)	Tower height 20 – 39 mtr.	25	125	2175.82	2,71,977.75		
	Amount (Rs.) --->	70			11,64,951.22		
Periodicity : Once in 12 months							

Sl. No.	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
5	Re-painting/ painting, Galvanising as per the scope of work						
a)	Tower height 100 + mtr.	5	5	69060.75	3,45,303.75		
b)	Tower height 80 – 99 mtr.	5	5	60984.00	3,04,920.00		
c)	Tower height 60 -79 mtr.	8	8	48732.75	3,89,862.00		
d)	Tower height 40 – 59 mtr.	27	27	36572.25	9,87,450.75		
e)	Tower height 20 – 39 mtr.	25	25	24411.75	6,10,293.75		
	Amount (Rs.) --->	70			26,37,830.25		
Periodicity : Once in 5 Year							

Sl. No	Description of work	Nos. of towers	Total no. of job	Estimated unit Rate (Rs.)	Estimated Amount (Rs.)	Rate quoted	
						% above / below in figures	% above / below in words
6	Cleaning at the Tower base & surroundings						
a)	Tower height 100 + mtr.	5	300	547.16	1,64,148.60		
b)	Tower height 80 – 99 mtr.	5	300	450.69	1,35,206.61		
c)	Tower height 60 -79 mtr.	8	480	387.33	1,85,919.89		
d)	Tower height 40 – 59 mtr.	27	1620	289.42	4,68,860.24		
e)	Tower height 20 – 39 mtr.	25	1500	192.95	2,89,419.90		
	Amount (Rs.) --->	70			12,43,555.24		
Periodicity : Monthly/ As and when required							

Total Amount (Rs.) =	85,83,004.00		
-----------------------------	---------------------	--	--

Signature of tenderer

Note :

1. In case of any discrepancy between the percentage of rate quoted (Above Below) in figures and words, the rate quoted in words will be considered as final. Rate to be quoted should be inclusive of all taxes and duties.
2. Summary of Maintenance activities & periodicity, towers to be maintained height-wise in North Frontier Railway is enclosed.
3. Entire list of towers is in Annexure-A.

Schedule of Work

Summary of Maintenance activities, periodicity & tower population

Maintenance activity	Periodicity in Months
Tower lights	As and when required/Monthly
Tower nut / bolts tightening / greasing and tightening of guy wire	Yearly
Earthing systems	Half Yearly
Tower Verticality and foundation	Yearly
Repairing / galvanizing	Once in the contract period of 5 years, but, within first six months after issue of LOA
Cleaning	As and when required/Monthly

Summary of tower population

Tower Height	E. Rly area population	EC Rly. Population	E. Coast Rly. Population	NF Rly. Population	SE Rly. Population	SEC Rly. population	Total
100m +	2	9	2	5	2	2	22
80-99m	3	3	3	5	8	3	25
60-79m	7	5	5	8	2	0	27
40-59m	4	4	3	27	4	0	42
20-39m	71	13	3	25	11	2	125
< 20m	0	0	0	0	1	0	1
Total	87	34	16	70	28	7	242

LIST OF TOWERS

TOWER DETAILS OF SECTION: 1 (SE, ECOAST, SEC RAILWAY)

SL. No.	STN	STATE	7GHZ / 18GH	HIGHT (IN MTR.)	Heights Range (Mtrs)	Type of tower		DIV
1	PALASA	AP	7GHZ	95	80-99	GBT	ECO	WALTIER
2	MEGHATU BURU	BIHAR	UHF	30	20-39	S/S	SE	CKP
3	AMARKANT AK	CG	7GHZ	100	100	FLOOD	SEC	BILASPUR
4	ANPUPUR	CG	7GHZ	100	100	FLOOD	SEC	BILASPUR
5	HATHBAND H	CG	7GHZ	90	80-99	GBT	SEC	RAIPUR
6	BILASPUR	CG	7GHZ	90	80-99	GUYED	SEC	BILASPUR
7	CHAMPA	CG	7GHZ	90	80-99	GUYED	SEC	BILASPUR
8	KORBA	CG	UHF	30	20-39	GUYED	SEC	BILASPUR
9	RAIPUR	CG	UHF	30	20-39	GUYED	SEC	RAIPUR
10	MURI	JHARK HAND	UHF	80	80-99	GUYED	SE	RANCHI
11	BOKARO	JHARK HAND	UHF	80	80-99	GUYED	SE	ADRA
12	TATISILWA Y	JHARK HAND	UHF	45	40-59	GUYED	SE	RANCHI
13	DONGAPOS	JHARK HAND	UHF	30	20-39	FLOOD	SE	CKP
14	TATA	JHARK HAND	UHF	30	20-39	FLOOD	SE	RANCHI
15	GAJJAMBA	Orissa	7GHZ	100	100	GBT	ECO	KHURDA
16	KESINGA	Orissa	7GHZ	100	100	GBT	ECO	KHURDA
17	DHENKANAL	Orissa	7GHZ	90	80-99	GBT	ECO	KHURDA
18	BAHANAGA BAZAR	Orissa	7GHZ	90	80-99	S/S	SE	KHARAGPUR
19	JAJPUR KEONJHAR	Orissa	7GHZ	95	80-99	GBT	ECO	KHURDA
20	JHARSUGUDA	Orissa	7GHZ	90	80-99	GUYED	SE	CKP
21	RUPSA	Orissa	7GHZ	85	80-99	S/S	SE	KHARAGPUR
22	GORKHNATH	Orissa	7GHZ	60	60-79	GBT	ECO	KHURDA
23	PARADIP	Orissa	7GHZ	60	60-79	GBT	ECO	KHURDA
24	MANCHESWAR	Orissa	7GHZ	72	60-79	GBT	ECO	KHURDA
25	BHADRAK	Orissa	7GHZ	65	60-79	GBT	ECO	KHURDA
26	HINDAL ROAD	Orissa	7GHZ	70	60-79	GBT	ECO	KHURDA
27	KHURDA	Orissa	7GHZ	55	40-59	GBT	ECO	KHURDA

28	CUTTACK	Orissa	7GHZ	40	40-59	GBT	ECO	KHURDA
29	TALCHER	Orissa	7GHZ	40	40-59	GBT	ECO	KHURDA
30	ROURKELA	Orissa	7GHZ	40	40-59	GBT	SE	CKP
31	SAMBALPUR	Orissa	7GHZ	30	20-39	GBT	ECO	SAMBALPUR
32	ICHAPURAM	Orissa	7GHZ	30	20-39	GBT	ECO	KHURDA
33	HUMA	Orissa	7GHZ	35	20-39	GBT	ECO	KHURDA
34	CHAKRADHARPUR	Orissa	7GHZ	35	20-39	GUYED	SE	CKP
35	BANDAMUNDA	Orissa	7GHZ	20	20-39	GUYED	SE	CKP
36	JHARGRAM	WB	7GHZ	100	100+	S/S	SE	KHARAGPUR
37	DALBHUMGARH	WB	7GHZ	100	100+	S/S	SE	KHARAGPUR
38	KHARAGPUR	WB	7GHZ	90	80-99	GBT	SE	KHARAGPUR
39	DATAN	WB	7GHZ	85	80-99	S/S	SE	KHARAGPUR
40	BAGNAN	WB	7GHZ	80	80-99	S/S	SE	KHARAGPUR
41	ADRA	WB	7GHZ	67	60-79	S/S	SE	ADRA
42	HAUR	WB	7GHZ	65	60-79	S/S	SE	KHARAGPUR
43	GARDENREACH	WB	7GHZ	55	40-59	S/S	SE	KHARAGPUR
44	BHOJUDIH	WB	UHF	45	40-59	S/S	SE	ADRA
45	SANTRAGACHI	WB	7GHZ	32	20-39	GBT	SE	KHARAGPUR
46	PANSKURA	WB	UHF	35	20-39	FLOOD	SE	KHARAGPUR
47	KOTSILO	WB	UHF	30	20-39	FLOOD	SE	ADRA
48	HALDIA	WB	UHF	30	20-39	FLOOD	SE	KHARAGPUR
49	TAMLUK	WB	UHF	35	20-39	GUYED	SE	KHARAGPUR
50	HOWRAH	WB	UHF	32	20-39	GUYED	SE	KHARAGPUR
51	SHALIMAR	WB	UHF	14	< 20	FLOOD	SE	KHARAGPUR

Summary : -	
100+	6
80-99	14
60-79	7
40-59	7
20-39	16
below 20	1
Total	51

TOWER DETAILS OF SECTION-4 (N. F. RAILWAY)

SL. No.	STN	STATE	7GHZ / 18GH	HIGHT (IN MTR.)	Heights Range (Mtrs)	Type of tower	RAIL WAY	DIV
1	NEW BONGAIGO AN	ASSAM	7GHZ	100	100	GBT	NF	RANGIYA
2	SIMALGURI	ASSAM	UHF	100	100	GBT	NF	TINSUKIA
3	RANGIYA	ASSAM	7GHZ	100	100	GBT	NF	RANGIYA
4	SRIRAMPUR	ASSAM	7GHZ	84	80-99	GBT	NF	ALIPUR DUAR
5	BHOJO	ASSAM	UHF	80	80-99	GBT	NF	TINSUKIA
6	DIBRUGARH	ASSAM	UHF	80	80-99	GUYED	NF	TINSUKIA
7	FURKATING	ASSAM	UHF	60	60-79	GBT	NF	LUMDING
8	TINSUKIA	ASSAM	UHF	60	60-79	FLOOD	NF	TINSUKIA
9	GUWAHATI	ASSAM	UHF	42	40-59	GBT	NF	LUMDING
10	AGTHORI	ASSAM	MTRC	50	40-59	GBT	NE	LUMDING
11	CHANGSARI	ASSAM	MTRC	50	40-59	GBT	NF	LUMDING
12	BAIHATA	ASSAM	MTRC	50	40-59	GBT	NF	LUMDING
13	NALBARI	ASSAM	MTRC	50	40-59	GBT	NF	RANGIYA
14	SARUPETA	ASSAM	MTRC	50	40-59	GBT	NF	RANGIYA
15	BARPETA	ASSAM	MTRC	50	40-59	GBT	NF	RANGIYA
16	SORBHOG	ASSAM	MTRC	50	40-59	GBT	NF	RANGIYA
17	BIJNI	ASSAM	MTRC	50	40-59	GBT	NF	RANGIYA
18	KOKRAJHAR	ASSAM	7GHZ	58	40-59	GBT	NF	ALIPURDUAR
19	MALIGAON	ASSAM	7GHZ	40	40-59	GBT	NF	LUMDING
20	KAITHALKUCHI	ASSAM	MTRC	30	20-39	GBT	NF	RANGIYA
21	TIHU	ASSAM	MTRC	30	20-39	GBT	NF	RANGIYA
22	PATHSHALA	ASSAM	MTRC	30	20-39	GBT	NF	RANGIYA
23	CHAPRAKATA	ASSAM	MTRC	30	20-39	GBT	NF	RANGIYA
24	BASUGAON	ASSAM	MTRC	30	20-39	GBT	NF	ALIPUR DUAR
25	SALAKATI	ASSAM	MTRC	30	20-39	GBT	NF	ALIPUR DUAR

26	FAKIRAGHAM	ASSAM	MTRC	30	20-39	GBT	NF	ALIPUR DUAR
27	CHAUTARA	ASSAM	MTRC	30	20-39	GBT	NF	ALIPUR DUAR
28	GOSSHAING AON HALT	ASSAM	MTRC	30	20-39	GBT	NF	ALIPUR DUAR
29	LUMDING	ASSAM	7GHZ	20	20-39	GBT	NF	LUMDING
30	KATI HAR	BIHAR	7GHZ	100	100	GBT	NF	KATI HAR
31	KATI HAR	BIHAR	7GHZ	80	80-99	GBT	NF	KATI HAR
32	KISHANGANJ	BIHAR	7GHZ	70	60-79	GBT	NF	KATI HAR
33	BARSOI	BIHAR	UHF	60	60-79	GBT	NF	KATI HAR
34	SURJAKAMAL	BIHAR	7GHZ	40	40-59	GBT	NF	KATI HAR
35	TELTA	BIHAR	MTRC	50	40-59	GBT	NF	KATI HAR
36	SUDHANI	BIHAR	MTRC	50	40-59	GBT	NF	KATI HAR
37	LAVA	BIHAR	MTRC	50	40-59	GBT	NF	KATI HAR
38	KURETHA	BIHAR	MTRC	50	40-59	GBT	NF	KATI HAR
39	HATWAR	BIHAR	MTRC	30	20-39	GBT	NF	KATI HAR
40	AZAMNAGAR RD	BIHAR	MTRC	30	20-39	GBT	NF	KATI HAR
41	ALIPURDUAR	West Bengal	7GHZ	100	100	GBT	NF	ALIPUR DUAR
42	NEW MAYNAGURI	West Bengal	7GHZ	80	80-99	GBT	NF	ALIPUR DUAR
43	KUMEDPUR	West Bengal	UHF	60	60-79	GBT	NF	KATI HAR
44	BHALUKARD	West Bengal	7GHZ	70	60-79	GBT	NF	KATI HAR
45	FALAKATA	West Bengal	7GHZ	70	60-79	GBT	NF	ALIPUR DUAR
46	NEW JAIPAIGURI	West Bengal	7GHZ	70	60-79	GBT	NF	KATI HAR
47	SAMSI	West Bengal	MTRC	50	40-59	GBT	NF	KATI HAR
48	EKLAKHI	West Bengal	MTRC	50	40-59	GBT	NF	KATI HAR
49	KAMAKHYA GURI	West Bengal	MTRC	50	40-59	GBT	NF	ALIPURDUAR

50	NEW COOCHBEH AR	West Bengal	MTRC	50	40-59	GBT	NF	ALIPURDU AR
51	GHOKSADA NGA	West Bengal	MTRC	50	40-59	GBT	NF	YES
52	DHUPGURI	West Bengal	MTRC	50	40-59	GBT	NF	ALIPUR DUAR
53	JALPAIGURI RD	West Bengal	MTRC	50	40-59	GBT	NF	ALIPUR DUAR
54	BELAKOBA	West Bengal	MTRC	50	40-59	GBT	NF	ALIPUR DUAR
55	NIJBARI	West Bengal	MTRC	50	40-59	GBT	NF	KATIHAR
56	DUMDANGI	West Bengal	MTRC	50	40-59	GBT	NF	KATIHAR
57	ALUABARI RD	West Bengal	MTRC	50	40-59	GBT	NF	KATIHAR
58	HARISCHAN DRAPUR	West Bengal	MTRC	30	20-39	GBT	NF	KATIHAR
59	OLD MALDA	West Bengal	MTRC	30	20-39	GBT	NF	KATIHAR
60	JORAI	West Bengal	MTRC	30	20-39	GBT	NF	ALIPUR DUAR
61	SAMUKTAL A	West Bengal	MTRC	30	20-39	GBT	NF	ALIPUR DUAR
62	NEW BANESWAR	West Bengal	MTRC	30	20-39	GBT	NF	ALIPUR DUAR
63	PUNDIBARI	West Bengal	MTRC	30	20-39	GBT	NF	ALIPUR DUAR
64	ALTAGRAM	West Bengal	MTRC	30	20-39	GBT	NF	ALIPUR DUAR
65	AMBARI FALAKATA	West Bengal	MTRC	30	20-39	GBT	NF	KATIHAR
66	PANJIPARA	West Bengal	MTRC	30	20-39	GBT	NF	KATIHAR
67	DALKHOLA	West Bengal	MTRC	30	20-39	GBT	NF	KATIHAR

68	SALBARI	West Bengal	MTRC	30	20-39	GBT	NF	ALIPUR DUAR
69	MANGURJAN	West Bengal	MTRC	30	20-39	GBT	NF	KATIHAR
70	GAISAL	West Bengal	MTRC	30	20-39	GBT	NF	KATIHAR

Summary :-	
100+	5
80-99	5
60-79	8
40-59	27
20-39	25
below 20	0
Total	70

Note: Height of Tower indicated may vary, however payment will be made on the basis of actual height of Tower, to be recorded during joint inspection.

Signature of the Tenderer with Seal

RailTel Corporation of India Ltd.
(A Minorana Category - I Enterprise)

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 and regional office at RailTel Corporation of India Ltd, Chatterjee International Centre, 3rd Floor, 33A, Jawaharlal Nehru Road, Kolkata – 700071 (hereinafter 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. datedmade between RailTel Corporation of India Limited and for (hereinafter called “the said Agreement”) of security deposit for the due fulfillment by the said Contractor(s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs.(Rupeesonly). We, (indicate the name of the Bank) hereinafter referred to as “the Bank” at the request ofContractor(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 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 there under and the Contractor(s) / Suppliers(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 RailTel against the said contractor(s) ad 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.
NOTWITHSTANDING ANYTHING CONTAINED HEREIN ABOVE.

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

Dated the Day of2015

for.....

(Indicate the name of the Bank)

Witness : RailTel Corporation of India Ltd.

Signature : (A/Mouazina Category : Enterprise)

Name :

Signature :

Name :

NOTE : The Guarantee shall be valid for a period of four months after the expiry of the warranty period.

GUARANTEE BOND FOR SECURITY DEPOSIT

(On Stamp Paper of requisite value)
(To be used by approved Scheduled Banks)

1. In consideration of the RailTel Corporation of India Limited, registered office at 6th floor, IIIrd Block, Delhi Technology Park, Shastri Park, Delhi- 110053 and regional office at RailTel Corporation of India Ltd, Chatterjee International Centre, 3rd Floor, 33A, Jawaharlal Nehru Road, Kolkata – 700071 (hereinafter 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 and
..... for (hereinafter called “the said Agreement”) of security deposit for the due fulfillment by the said Contractor(s) 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 Bank) hereinafter referred to as “the Bank” at the request of (Contractors) do hereby to pay the RailTel an amount not exceeding Rs..... against any loss or damage caused to or suffered or would be callused to or suffered by the RailTel by reason of any breach by the said Contractors) of any of the terms or conditions contained in the said Agreement.
2. We, 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 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 Contractors) failure to perform the said Agreement. Any such demand mad eon 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.....
RailTel Corporation of India Ltd.
3. We, 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 there under 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 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(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 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 to postpone for any time to time any of the powers exercisable by the RailTel against the said contractor) 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 effect of so relieving us.
6. This Guarantee will not be discharged due to the change in the Constitution of the Bank or the Contractors Supplier(s).
7. (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 of2015.

For
(indicate the name of the Bank)

Witness

1. Signature

Name

2. Signature

Name

AGREEMENT

An agreement made this _____ day of _____ between RailTel Corporation of India Ltd., a company incorporated under the companies Act 1956 and having its Regional Office at Chatterjee International Centre, 3rd Floor, 33A, Jawaharlal Nehru Road, Kolkata – 700 071 (hereinafter referred as RailTel) of the One part, and M/s _____ (hereinafter referred to as “contractor”) of the other part.

Whereas in response to a call or Tender for “Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East-Coast Railway, East Central Railway, Northeast Frontier Railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd., Eastern Region for five years as per Tender papers, the Contractor has submitted his offer. Whereas the Contractor has agreed with RailTel Corporation of India Ltd for carrying out the work of “Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East Coast Railway, East Central Railway, Northeast Frontier railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd. as per the Tender document No. _____ for Rs. _____ only) as per copy of Letter of Acceptance (LOA) of limited tender issued vide letter No. _____ dt. _____ at accepted rates as contained in the said LOA (Annexure-3 hereto) issued by RailTel with schedule of requirement and terms and conditions.

Now this agreement witnesses that in consideration of the payment to be made by RailTel to the Contractor provided, the Contractor shall execute the work of “Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East-Coast Railway, East Central Railway, Northeast Frontier Railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd., Eastern Region for five years for which the said tender of Contractor has been accepted strictly according to the Annexure-1.2 and 3 hereto and upon such work of “Annual Maintenance of Microwave and UHF Towers of Eastern Railway, South Eastern Railway, East-Coast Railway, East Central Railway, Northeast Frontier Railway and South East Central Railway on OFC routes of RailTel Corporation of India Ltd., Eastern Region for five years in..... satisfactory completion of work and performance of the system to the satisfaction of the RailTel, the RailTel shall pay to the Contractor at the rates accepted as per the said Annexure-1 and in terms of conditions contained in Annexure-1, 2 & 3.

Whereas M/s. _____ has submitted _____ no. _____ Dt. _____ for Rs. _____ drawn on _____ Bank, _____ branch, _____ valid till _____ towards the security deposit and submitted _____ no. _____ dt. _____ for Rs. _____ drawn on _____ Bank _____ branch _____ valid till _____ towards Performance Bank Guarantee for due fulfillment of the contract.

In the witness where of the parties have hereinto set and subscribed their respective hands and/or seals day and year respectively mentioned against their respective signatures.

Signed and delivered at _____ for and
on _____ behalf of
M/s. _____

The contractor 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 at _____ for and on behalf of
RailTel

by Shri _____ (_____) in the presence of:

1. Signature
Date
Name in Block Capitals
2. Signature
Date
Name in Block Capitals

Address:

Annexure '1' : Schedule of Works/rates.

Annexure '2' : Tender Document

Annexure '3' : Copy of Letter of Acceptance

(Signature) _____ Dated : Complete with enclosures

Witness :

Name 1. Signature

Name 2. Signature