

EAST COAST RAILWAY PROJECT ORGANISATION

TENDER DOCUMENT

**OFFICE OF THE
Dy. CSTE/PROJ/WALTAIR**

Tender Notice No.: ST/PROJ/WAT/OT/08/2009 dt 14.09.2009

Name of work: - "Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapur Road stations in WALTAIR division of East Coast Railway".

PRICE: Rs. 10000/-

EAST COAST RAILWAY PROJECT ORGANISATION

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OF
TENDER DOCUMENT

EAST COAST RAILWAY PROJECT ORGANISATION
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EAST COAST RAILWAY PROJECT ORGANISATION

TOP SHEET.

CHAPTER-01

EAST COAST RAILWAY PROJECT ORGANISATION

TOP SHEET

**Office of the
Dy. Chief Signal & Telecom Engineer (PROJ)
WALTAIR**

TENDER DOCUMENT FOR :-

Name of the work: - "Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapur Road stations in WALTAIR division of East Coast Railway".

Tender Notice No: No: ST/PROJ/WAT/OT/08/2009 dt 14.09.2009

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- **Date of closing of the Tender : Date 30.10.2009 (Time 15.00.Hrs.)
(Sealing of Tender box)**
- **Date of opening of the Tender : Date 30.10.2009 (Time 15.30.Hrs)**
- **Place of opening of Tender : WAT/BBS/SBP**
- Tender documents issued to _____
- Address: _____

- Tender document cost - Rs.10,000/- (Rs. Ten Thousand only)

Money Receipt No. _____ Dt. _____

Deposited with: _____

Dy. Chief Signal & Telecom Engineer/PROJ

E. Co. Rly. WALTAIR

EAST COAST RAILWAY PROJECT ORGANISATION

TENDER NOTICE

CHAPTER-02

**EAST COAST RAILWAY
(PROJECT ORGANISATION)
TENDER NOTICE**

Office of the
Dy. CSTE/Proj/Waltair

1. Tender Notice No: **ST/PROJ/WAT/OT/08/2009 dt 14.09.2009**

2. Sealed tenders in the prescribed form are invited **by Dy. CSTE/PROJ/WAT** on behalf of the President of India for execution of the following works from the tenderers fulfilling the requisite eligibility criteria:-

Item No.	Name of work	Approximate Value(Rs.)	Earnest Money Deposit (Rs)	Date of closing of Tender box	Date of opening of tender box	Cost of Tender document (Rs)
1	“Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapur Road stations in WALTAIR division of East Coast Railway”.	3,08,05,257	3,04,030	Date30.10.2009 (Time15.00 hrs.)	Date30.10.2009 (Time15.30 hrs.)	10000/-

3.0 **Eligibility criteria for participation in the Tender:** - Tenderer(s) must fulfill/satisfy the following eligibility criteria for participating in this tender and consideration of their offers.

3.1 The tenderer(s) should have physically completed within qualifying period i.e. three previous financial years and current financial year (even though the work might have commenced before the qualifying period) at least one similar single work for a minimum value of 35% of advertised tender value in Railways or any other Govt/Semi-Govt Organisation in one single contract agreement.

Similar nature of work means:-“Any electrical Signaling work of RRI/PI/EI work”.

3.1.1 The total value of similar nature of work completed during the qualifying period and not the payments received within qualifying period alone, shall be considered.

In case, the final bill of similar nature of work has not been passed and final measurements have not been recorded, the paid amount including statutory deduction shall be considered. If final measurements have been recorded and work has been completed with negative variation, then also the paid amount including statutory deduction shall be considered.

However, if final measurements have been recorded and work has been completed with positive variation but variation has not been sanctioned, original agreement value or last sanctioned agreement value whichever is lower shall be considered for judging eligibility.

3.1.2 In case of composite works involving combination of different works, even separate completed works of required value shall be considered while evaluating the eligibility criteria. For example, in a tender for bridge works where similar nature of work has been defined as bridge works with pile foundation and PSC superstructure, a tenderer, who has completed one

bridge work with pile foundation of value at least equal to 35% of tender value and also has completed one bridge work with PSC superstructure of value at least equal to 35% of the tender value, shall be considered as having fulfilled the eligibility criterion of having completed single similar nature of work.

- 3.2 The total contractual payments received by the tenderer(s) during three previous financial years and the current financial year should be minimum 150% of advertised tender value. In support of this the tenderer(s) should submit attested certificate from the employer/client, audited balance sheet duly certified by the Chartered Accountant.

Note to Tenderer(s):

- (A) The "tenderer(s)" mentioned in Para 3.1 and 3.2 above means – In the "name and style", the tenderer(s) who are submitting their offers in the capacity of individual/proprietary/partnership firms etc.
 - (B) Normally, the credentials (technical and financial) should be in the "name and style" of the tenderer(s) who are submitting their offer as a tenderer(s).
 - (C) The tenderer(s) who have acquired necessary credentials (technical and financial) as a constituent in the partnership/Joint Venture firm, such apportioned credentials (technical and financial) will also be considered. (Documents shall be furnished).
 - (D) The credentials (technical and financial) with regard to execution and physical completion of single similar work and contractual receipts should pertain to the qualifying period i.e. within the current financial year and three previous financial years.
 - (E) Joint Ventures may participate in this tender. However, JV firm tenderer(s) should confirm to the stipulation laid down in the tender document (Chapter 5). In case of JV firm tenderer(s), the tender document should be purchased in the name of the JV firm.
 - (F) Authentic copy of documents should be furnished by the tenderer(s) along with their offer to fulfill the eligibility criteria otherwise their offers will not be considered and summarily rejected.
4. The tenderer should also submit the following documents along with their offer.
- 4.1 List of personnel, organization available on hand and proposed to be engaged for the subject work.
 - 4.2 List of Plant & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work.
 - 4.3 List of works physically completed in the last 03(three) financial years under Govt./Semi Govt. organizations 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 and final value of contract should also be given.
 - 4.4 List of works on hand indicating description of work, contract value, approximate value of balance work yet to be done and date of award.
- NOTE** :In case of items 4.3 & 4.4 above, supportive documents/certificates from the organizations with whom they worked/are working should be furnished. Certificates from private individuals for whom such works are executed/being executed shall not be accepted.
- 5.0 **Qualifying Criteria** – All the eligibility criteria as mentioned in para 3.0 to 4.4 will be the qualifying criteria. On compliance of all the eligibility criteria as per para 3.0 to 4.4 above of the Part I Technical Bid, the tenderer will qualify for opening and consideration of their Part-II Price Bid as per extant procedure of Railways.
 - 6.0 The credential certificates as per para 3.1 above to be furnished by the tenderers should contain the basic information such as (i) Contract Agreement No., (ii) Detailed nature of work executed, (iii) Date of physical completion of work, (iv) Total amount received, (v) Name & Style in whose favour the credential certificate is issued.
 - 7.0. The contract period of the works for completion is **9 (Nine) months** from the date of issue of the Acceptance Letter .

- 8.(i) Tenderer must comply the "Mandatoty Requirements" as per Para 12, Chapter 3 (Instructions to tenderers)
- 8.(ii). The Tenderers who fulfill the above eligibility criteria are requested to collect the tender document in person or through their authorized representative on production of required amount of money receipt as mentioned above per set in support of the deposit towards the cost of tender document (Non-refundable) made either with Divl.Cashier/Con/ E.Co.Rly/ CSPur/ Bhubaneswar-23 or any Station Master/Superintendent of E.Co.Railway against Estimate No: Estt.No.CSTE/C/BBS/112/2004 , Allocation :DRF, Plan Head:3300.
9. Tender documents are obtainable from the offices of the Dy. Chief Signal & Telecom Engineer /Project/E.CoR/ WALTAIR, Sr.Divisional Signal & Telecom Engineer/E.CoR/ Sambalpur & Dy. Chief Signal & Telecom Engineer /Project/E.CoR/ Bhubaneswar on any working day during office working hours from 20.09.2009 to 29.10.2009. Tender documents are also available on website www.eastcoastrailway.gov.in & <http://tenders.gov.in> and the same can be downloaded and used as tender document for submitting the offer. This facility is available free of cost. However, the cost of tender document as indicated above will have to be deposited by the Tenderer in the form of a bank draft payable in favour of FA & CAO/Con/E.Co.Railway/Bhubaneswar along with the tender document. This should be paid separately and not clubbed with the Earnest Money deposit. Tenders received without the cost of tender document will be summarily rejected. In case of any discrepancy between the tender documents downloaded from internet and the master copy available in the office, the latter shall prevail and will be binding on the Tenderer(s). No claim on this account will be entertained.
10. The tender form is not transferable.
11. The earnest money required may be deposited in any acceptable form as mentioned in the tender document, but EMD in the shape of Bank Guarantee which is not acceptable.
12. The tender box will be closed at 15.00 Hrs. of tender opening day and the tenders will be opened in presence of the tenderers at 15.30 Hrs. on the same day in the offices of **Dy. Chief Signal & Telecom Engineer /Proj/E.CoR/ WALTAIR, Sr.Divisional Signal & Telecom Engineer /E.CoR/ Sambalpur & Dy. Chief Signal & Telecom Engineer /Project/E.CoR/ Bhubaneswar. If the date of opening happens to be a BANDH or Holiday, the tender will be opened at the same time on the following working day.** No tender documents will be sent by post, but Tenders received by posts will be accepted, however Tenderers are advised to post the tenders well in advance so as to reach in time at either of the following addresses:-
- (1) Dy.Chief Signal & Telecom Engineer /Proj , DRM office Complex, Dondaparthi, Visakhapatnam – 530 016. (A.P)
- (2) Dy. Chief Signal & Telecom Engineer /Proj, ECoR Sadan, North Block, Samanta Vihar, Bhubaneswar – 17 (Orissa).
- (3) Sr.Divisional Signal & Telecom Engineer , DRM office Complex, Modipara, Sambalpur -768002. (Orissa).

NOTE:- Railway shall not be responsible for any delay whatsoever with regards to postal tender. Tenderers are also advised to clearly mention the name of the work & Tender Notice No. and date of opening at the top of the envelope and it should be enclosed in another envelope to avoid opening inadvertently. Name of work, tender Notice No. & date of opening should be mentioned on both the envelopes and the tenders will be opened at 15.30 hrs. on the same day at all the above places.

13. The Railway reserves the right to cancel the tender or reject any or all tenders without assigning any reasons thereof.
14. **The prospective tenderers are advised to visit the website one week before the date of opening of tender to note any changes/corrigenda issued for this tender. Website: www.eastcoastrailway.gov.in or <http://tenders.gov.in>.**

Dy. Chief Signal & Telecom Engineer/PROJECT

E. Co. Rly.WALTAIR
For & on behalf of President of India.

CHAPTER-03

EAST COAST RAILWAY PROJECT ORGANISATION

INSTRUCTIONS TO TENDERERS

CHAPTER-03**EAST COAST RAILWAY PROJECT ORGANISATION****INSTRUCTIONS TO TENDERERS**

1. **Name of work:-** “Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapur Road stations in WALTAIR division of East Coast Railway”.

2. Approximate value of Tender : Rs. 3, 08, 05, 257/-
3. (a) Date of closing of Tender : As mentioned in the Top Sheet
(Sealing of tender box)
(b) Date of opening of Tender : (Chapter-1) and tender notice
(c) Place of opening of Tender : (Chapter-2)
4. Availability of Tender documents: Tender documents are obtainable from the offices of the Dy. Chief Signal & Telecom Engineer /Proj/E.CoR/ Waltair, Sr.Divisional Signal & Telecom Engineer /E.CoR/ Sambalpur & Dy. Chief Signal & Telecom Engineer /Proj/E.CoR/ Bhubaneswar on any working day during office working hours from 17.09.2009 to 19.10.2009 production of money receipt in support of Rs.10,000/- (Rs. Ten Thousand only) non-refundable deposited with Divl. Cashier/Con/EcoRly/C.S.Pur/Bhubaneswar – 23 or any Station Master /station superintendent of E.Co. Railway against **Estt.No.CSTE/C/BBS/112/2004, Allocation: DRF, Plan Head: 3300.**

4.1. Tender documents are also available on website **www.eastcoastrailway.gov.in & http://tenders.gov.in.** and the same can be down loaded and used as tender document for submitting the offer. This facility is available free of cost. However, the cost of tender document as indicated above in para 4 will have to be deposited by the tenderer in the form of a bank draft payable in favour of FA & CAO/Con/E.Co.Rly/BBS along with the tender document. This should be paid separately and not clubbed with the Earnest Money deposit. Tenders received without the cost of tender document will be summarily rejected.

4.2 Tender documents must be submitted duly completed in all respect in a sealed envelope duly super-scribing the Tender Notice No. and the name of work in the tender boxes provided in the offices of Dy. Chief Signal & Telecom Engineer /Proj/E.CoR/ Waltair, Sr.Divisional Signal & Telecom Engineer /E.CoR/ Sambalpur & Dy. Chief Signal & Telecom Engineer /Proj/E.CoR/ Bhubaneswar within **15.00 hrs. of tender opening day.** No tender document will be sent by post but Tenders received by posts will be accepted, however Tenderers are advised to post the tenders well in advance so as to reach in time at either of the following addresses.

- (1) Dy.Chief Signal & Telecom Engineer /Proj , DRM office Complex, Dondaparthi, Visakhapatnam – 530 016. (A.P)
- (2) Dy. Chief Signal & Telecom Engineer /Proj, ECoR sadan, North Block, Samantavihar, Bhubaneswar – 17 (Orissa).
- (3) Sr.Divisional Signal & Telecom Engineer , DRM office Complex, Modipara, Sambalpur -768002, (Orissa).

NOTE:- Railway shall not be responsible for any delay in whatsoever with regards to postal tender. Tenderers are also advised to clearly mention the name of the work & Tender Notice No. and date of opening at the top of the envelope and it should be enclosed in another envelope to avoid opening inadvertently. Name of work, tender Notice No. & date of opening should be mentioned on both the envelopes and the tenders will be opened at **15.30 hrs.** on the same day at all the above places.

- 4.3 Tenderer(s) are free to down load the tender document from the web site at their risk and cost for the purpose of perusal and to use the same as Tender Document, if so desire, for submitting their offer. If the offer of any tenderer who has submitted the tender document down loaded from the web site is accepted, the Contract agreement will be prepared based on the master copy of the document and will be binding on the contractor. No claim on this account will be entertained.
- 4.4 The prospective tenderers are advised to visit the website one week before the date of opening of tender to note any changes/corrigenda issued for this tender. Website: www.eastcoastrailway.gov.in or <http://tenders.gov.in>.**
- 4.5 Tenderer(s) may note that if any change/ addition/deletion/alterations are found to have been made by them in the tender documents which may be detected/ noticed at any stage even after award of the contract, administrative action including banning of business would be taken against such tenderers. In addition, the tenderer(s)/ bidders will be liable to be prosecuted under law.
- 5.0 If the required information asked for in the specified proforma attached in the tender document are not furnished, the tender will be otherwise treated incomplete and hence will not be considered.
- 6.0 Tender which are received after the date and/ or time specified may not be considered.
- 7.0 Tenderer(s) shall sign every page of the tender documents along with enclosures serially numbered.
- 8.0 If the documents viz. partnership deed is not submitted along with the tender, the tender will be treated as having been submitted by individual signing the tender documents.
- 9.0 The tenderer(s) whether sole proprietor, a limited company or a partnership firm, if they want to act through agent or individual partner(s) should submit along with the tender or at a later stage, a power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person.
- 10.0 Tenderer should furnish a signed barchart, activity-wise detailed programme to complete the work.
- 11.0 The tender should be accompanied by duly filled in mandate form for EFT as per proforma given in Annexure-M.
- 12.0 The tenderer(s) must fulfil/satisfy the following mandatory requirements failing which their offers shall be summarily rejected.**

MANDATORY REQUIREMENTS :

- (i) **Earnest Money in the acceptable form.**
- (ii) **Cost of the Tender document in the form of Bank Draft in case the tender document is down-loaded from web site.**
- (iii) **The complete set of Tender Document duly filled in and duly signed by the tenderer(s).**
- (iv) **Authentic copies of documents in support of formation/registration of the company/firm/legal authorization of the person to deal with the tender/ notarized/registered copies of the documents wherever required as per tender conditions.**
- (v) **Supportive documents/certificates from competent officials to be submitted regarding technical and financial eligibility criteria as per paras 3.1 and 3.2 respectively of tender notice (Chapter-2) and eligibility criteria (Chapter 4) of tender document.**

CHAPTER-04

EAST COAST RAILWAY PROJECT ORGANISATION

ELIGIBILITY CRITERIA AND QUALIFYING CRITERIA

CHAPTER-04

EAST COAST RAILWAY PROJECT ORGANISATION

ELIGIBILITY CRITERIA AND QUALIFYING CRITERIA
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- 1.0 Contractors who have adequate experience and resources to adhere to the specifications and completion schedule should participate in this tender.
- 2.0 The earnest money required can be deposited in any acceptable form as mentioned in the tender document but EMD in the shape of Bank Guarantee is not acceptable.
- 2.1. Tender documents are obtainable from the offices as indicated in the tender notice. Tender documents are also available on website www.eastcoastrailway.gov.in & <http://tenders.gov.in> and the same can be down loaded and used as tender document for submitting the offer. This facility is available free of cost. However, the cost of tender document as indicated above will have to be deposited by the Tenderer in the form of a bank draft payable in favour of FA & CAO/Con/E.Co.Railway/Bhubaneswar along with the tender document. This should be paid separately and not clubbed with the Earnest Money deposit.
- 3.0. **Eligibility Criteria**:-Eligibility criteria for participation in this Tender are indicated below;-Tenderer(s) should fulfill the following eligibility criteria prescribed for participating in the tender.
- 3.1 The tenderer(s) should have physically completed within qualifying period i.e. three previous financial years and current financial year (even though the work might have commenced before the qualifying period) at least one similar single work for a minimum value of 35% of advertised tender value in Railways or any other Govt/Semi-Govt Organisation in one single contract agreement.

Similar nature of work means :-Any electrical Signaling work of RRI/PI/EI work". .

- 3.1.1 The total value of similar nature of work completed during the qualifying period and not the payments received within qualifying period alone, shall be considered.
In case, the final bill of similar nature of work has not been passed and final measurements have not been recorded, the paid amount including statutory deduction shall be considered. If final measurements have been recorded and work has been completed with negative variation, then also the paid amount including statutory deduction shall be considered.
However, if final measurements have been recorded and work has been completed with positive variation but variation has not been sanctioned, original agreement value or last sanctioned agreement value whichever is lower shall be considered for judging eligibility.
- 3.1.2 In case of composite works involving combination of different works, even separate completed works of required value shall be considered while evaluating the eligibility criteria. For example, in a tender for bridge works where similar nature of work has been defined as bridge works with pile foundation and PSC superstructure, a tenderer, who has completed one bridge work with pile foundation of value at least equal to 35% of tender value and also has completed one bridge work with PSC superstructure of value at least equal to 35% of the tender value, shall be

considered as having fulfilled the eligibility criterion of having completed single similar nature of work.

3.2 The total contract amount received by the tenderer(s) during three previous financial years and the current financial year should be minimum 150% of advertised tender value. In support of this the tenderer(s) should submit attested certificate from the employer/client/audited balance sheet duly certified by the Chartered Accountant.

Note :

- (A) The "tenderer(s)" mentioned in para 3.1 and 3.2 above means – In the "name and style", the tenderer(s) who are submitting their offers in the capacity of individual/proprietary/partnership firms etc.
- (B) Normally, the credentials (technical and financial) should be in the "name and style" of the tenderer(s) who are submitting their offer as a tenderer(s).
- (C) The tenderer(s) who have acquired necessary credentials (technical and financial) as a constituent in the partnership/Joint Venture firm, such apportioned credentials (technical and financial) will also be considered. (Documents shall be furnished).
- (D) The credentials (technical and financial) with regard to execution and physical completion of single similar work and contractual receipts should pertain to the qualifying period i.e. within the current financial year and three previous financial years.
- (E) Joint Ventures may participate in this tender. However, JV firms should confirm to the stipulation laid down in the tender document (Chapter 5). In case of JV, the tender document should be purchased in the name of the JV firm.
- (F) Authentic copy of documents should be furnished by the tenderer(s) along with their offer to fulfill the eligibility criteria otherwise their offers will not be considered and summarily rejected.

4.0. The tenderer should also submit the following documents along with the tender.

- 4.1 List of personnel, organization available on hand and proposed to be engaged for the subject work.
- 4.2 List of Plant & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work.
- 4.3 List of works physically completed in the last 03(three) financial years under Govt./Semi Govt. organizations 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 and final value of contract should also be given.
- 4.4 List of works on hand indicating description of work, contract value, approximate value of balance work yet to be done and date of award.

NOTE : In case of items 4.3 & 4.4 above, supportive documents/certificates from the organizations with whom they worked/are working should be furnished. Certificates from private individuals for whom such works are executed/being executed shall not be accepted.

5.0 Qualifying Criteria – All the eligibility criteria as mentioned in para 3.0 to 4.4 will be the qualifying criteria. On compliance of all the eligibility criteria as per para 3.0 to 4.4 above of the Part – I Technical Bid, the tenderer will qualify for opening and consideration of their Part-II Price Bid as per extant procedure of Railways.

6.0 The credential certificates as per para 3.1 above to be furnished by the tenderers should contain the basic information such as (i) Contract Agreement No., (ii) Detailed nature of work executed, (iii) Date of physical completion of work, (iv) Total amount received, (v) Name & Style in whose favour the credential certificate is issued.

CHAPTER-05

EAST COAST RAILWAY PROJECT ORGANISATION

**GUIDELINES FOR PARTICIPATION OF JOINT VENTURE
FIRMS IN WORKS TENDER.**

CHAPTER-05**EAST COAST RAILWAY PROJECT ORGANISATION****GUIDELINES FOR PARTICIPATION OF JOINT VENTURE FIRMS IN WORKS TENDER.**

1. Separate identity/name shall be given to the Joint Venture firm.
2. Number of members in a JV firm shall not be more than three if the work involves only one department (say Civil or S&T or Electrical) and shall not be more than five if the work involves more than one department.
3. 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.
4. 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.
5. Normally, EMD shall be submitted only in the name of the JV and not in the name of constituent member. However, in exceptional cases EMD in the name of Lead partner can be accepted subject to submission of specific request letter from Lead partner stating the reasons for not submitting the EMD in the name of JV and giving written confirmation from the JV partners to the effect that the EMD submitted by the Lead partner may be deemed as EMD submitted by JV firm.
6. One of the members of the JV firm shall be the lead member of the JV firm who shall have a majority (at least 51%) share of interest in the JV firm. The other member shall have a share of not less than 20% each in case of JV firms with up to three members and not less than 10% each in case of JV firms with more than three members. In case of JV firm with foreign member (s), the Lead member has to be an Indian firm with a minimum share of 51%.
7. 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 members of the JV firm, their share and responsibility in the JV firm etc. particularly with reference to financial, technical and other obligations shall be furnished in the MOU. The MOU format is given at Annexure JV-I
8. 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 the stipulation, the full earnest money deposit (EMD) shall be forfeited. In case of successful tenderer the validity of this MOU shall be extended till the currency of the contract expires.
9. Approval for change of constitution of JV firm shall be at the sole discretion of the Employer (Railways). 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. In any case the Lead Member should continue to be the Lead Member of the JV firm. Failure to observe this requirement would render the offer invalid.
10. 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.

11. On award of contract to a JV firm, a single Performance Guarantee shall be required to be submitted by the JV firm as per tender conditions. 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.
12. On issue of LOA, an agreement among the members of the JV firm (to whom the work has been awarded) has to 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 agreement shall be submitted by the JV firm to the Railways before signing the contract agreement for the work. The JV Agreement format is given at Annexure JV-II. 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 :-

Joint and several liability – The members of the JV firm to which the contract is awarded, shall be jointly and severally liable to the Employer (Railways) for execution of the project in accordance with General and Special conditions of the contract. The JV members shall also be liable jointly and severally for the loss, damages caused to the Railways during the course of execution of the contract or due to non-execution of the contract or part thereof.

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.

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

13. **Authorized Member** – 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 receive payment, 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.

14. 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 employer (Railways) in respect of the said tender/contract.

15. Documents to be enclosed by the JV firm along with the tender :-

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 to sign the MOU and JV Agreement on behalf of the partners and create liability against the firm.

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 concern is a Proprietary Concern and he is sole proprietor of the Concern OR he is in position of "KARTA" of Hindu Undivided Family and he has the authority, power and consent given by other partners to act on behalf of HUF.

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

- (a) 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 MOU, JV Agreement, such other documents required to be signed on behalf of the Company and enter into liability against the company and/or do any other act on behalf of the company.
- (b) Copy of Memorandum and articles of Association of the Company.
- (c) Power of Attorney (duly registered as per prevailing law) by the Company authorizing the person to do/act mentioned in the para (a) above.

All the members of the JV shall certify that they have not been black listed or debarred by Railways or any other Ministry/Department of the Govt. of India/State Govt. from participation in tenders/contract in the past either in their individual capacity or the JV firm or partnership firm in which they were members/partners.

16.Credentials & Qualifying criteria

Technical and financial eligibility of the JV firm shall be adjudged based on satisfactory fulfillment of the following criteria.

Technical eligibility criteria :

Either the JV firm or any one of the members of the JV firm must have satisfactorily completed in the last three previous financial years and the current financial year up to the date of opening of the tender, one similar single work for a minimum value of 35% of advertised tender value.

OR

In case of composite works (e.g. works involving more than one distinct component such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges, substructure and superstructure etc.), at least 35% of the value of each such component of similar nature should have been satisfactorily completed by the JV firm or any one of the members of the JV firm in the previous three financial years and the current financial year up to the date of opening of tender. In such cases, what constitutes a component in a composite work shall be clearly defined as part of the tender condition without any ambiguity.

NOTE :-

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

16.2 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 the 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.

EAST COAST RAILWAY PROJECT ORGANISATION

MEMORANDUM OF UNDERSTANDING (MOU) FOR JOINT VENTURE PARTICIPATION
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(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.

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 know as M/s _____ (JV).

The expressions ofandshall 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; **East Coast Railway Project Organisation** (hereinafter referred to as "Client") has invited bids for(insert name of work) "....."

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

1. The following documents shall be deemed to form and be read and construed as an integral part of this MOU.
 - i) Notice for bid, and
 - ii) Tender document
 - iii) Any Addendum/Corrigendum issued by (East Coast Railway Construction organization)
 - iv) The Tender submitted on our behalf jointly by the Lead Partner.
2. The 'Parties' have studied the documents and have agreed to participate in submitting a 'Tender' jointly.
3. M/s.....**the lead partner/.....the "authorized member"** of the JV shall be the "Lead member" for all intents and purposes and shall represent the Joint Venture in its dealing with the contract. For the purpose of submission of Tender proposals, the parties agree to nominate M/s..... **the lead partner/....., the authorized member** to sign and submit all tender documents and subsequent clarifications, if any, to the Railways. However, M/s..... shall not submit any such proposals, clarifications or commitments without securing clearance of other JV constituents (s).
4. The 'Parties' have resolved that the distribution of share and responsibilities is as under:

- a) Lead Partner share%;
 Responsibilities. i)
 (Technical, Financial & other obligations) ii)
 iii)
- b) Joint Venture Partner's share -----%
 Name
 Responsibilities. i)
 (Technical, Financial & other obligations) ii)
 iii)
- c) Joint Venture Partner's share -----%
 Name
 Responsibilities. i)
 (Technical, Financial & other obligations) ii)
 iii)

5. JOINT AND SEVERAL RESPONSIBILITY

The Parties undertake that they shall be jointly and severally liable to the Railways 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 Railways during the course of execution of the contract or due to non-execution of the contract or part thereof.

6. 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 employer (Railways) in respect of the said tender/contract.

7. EXECUTIVE AUTHORITY

Joint Venture members shall authorize the **lead partner/any one of the JV members as authorized member who will be the "Lead member"** to act 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 receive payment, 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 the **lead partner/authorized member** of the JV firms, as the case may be.

8. GUARANTEES AND BONDS

Till the award of the work, the lead partner shall furnish Earnest Money and all other bonds/guarantees to the Client/Railway Administration in the name of J.V. and on behalf of the J.V., which shall be legally binding on all the partners of the J.V.

9. INDEMNITY

Each party hereto agrees to indemnify the other party against its respective parts in case of breach/default of the respective party of the contract works of any liabilities sustained by the Joint Venture.

10. For the execution of the respective portions of works, the parties shall make their own arrangements to bring the required finance, plants and equipment, materials, manpower and other resources.

11 DOCUMENTS & CONFIDENTIALITY.

Each Party shall maintain confidence regarding the information related to the Project, commercial and technical information received or generated in the course of preparation and submission of the bid.

12 ARBITRATION

Any dispute, controversy or claim arising out of or relating to this agreement shall be settled in the first instance amicably between the parties. If an amicable settlement cannot be reached as above, it will be settled by arbitration in accordance with the Indian Arbitration and Conciliation Act 1996 or any amendments thereof. The Venue of the arbitration shall be Bhubaneswar.

13 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 client 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 entire period of completion including maintenance period.

- 14.** This MOU is drawn innumber 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.

- 15.** This MOU shall in all respects be governed by and interpreted in accordance with Indian Laws.

16. NOTICES

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

17. JV Agreement.

We are aware, that after issue of LOA by the Railway Administration, an agreement among the members of the JV firm has to be executed and got registered before the Registrar of Companies under the Companies Act or with the Registrar/Sub-Registrar under the Registration Act. This agreement shall be submitted by the JV firm to the Railways as per Railway's standard J.V. Agreement format 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 Railways shall be forfeited and other penal actions due shall be taken against partners of the JV and the JV by the Railways.

- 18.** 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 Railway for participation of J.V. firms in works tender.

Declaration

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

Lead Partner

Other Partner(s).

(Name and Address)

(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 & Address)
- 2. (Name & Address)

Annexure JV - 2

(The J.V. Agreement should be made on a Rs.100/- Non-Judicial Stamp paper, purchased in favour of the J.V. firm and there should not be more than six months time, from the date of purchase of those Non-Judicial papers and execution of the J.V. Agreement, on it)

JOINT VENTURE AGREEMENT**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, the Joint Venture formed by both the parties i.e. _____ and _____ will be known as M/s _____ (JV).

The expressions ofandshall 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"

- 1. WHEREAS; East Coast Railway** (hereinafter referred to as East Coast Railway administration) has invited bids for(insert name of work and Tender Notice No.)"

And Whereas, the above parties to the Joint Venture have submitted the bid in the name of the said JV formed as per the MOU signed on dated.... and where as the said bid has finally been accepted by Railway Administration i.e. the Employer vide LOA No.....dated....., we M/s....., the lead partner and M/s....., the Joint Partner herewith sign the above formal JV agreement for registration of the above joint venture viz M/s..... and for entering into contract Agreement with Railway Administration, the "Employer".

- 2. NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS :**

- 2.1.** The following documents shall be deemed to form and be read and construed as an integral part of this J.V. Agreement.
- i) Notice for bid, and
 - ii) Tender document
 - iii) Any Addendum/Corrigendum issued by (East Coast Railway)
 - iv) MOU signed on.....by us.
 - v) Tender submitted on our behalf jointly by the Lead Partner.
 - vi) LOA issued by Railway Administration.
- 2.2.** The 'Parties' have studied the documents, JV guidelines and have agreed to participate in submitting the 'Tender' jointly; signed the JV MOU and submitted the bid accordingly.
- 2.3.** M/s....., **the Lead Partner/Authorised member**, shall be the **lead member** of the JV for all intents and purposes and shall represent the Joint venture in its dealing

with the Employer. The **lead member** shall be authorized to sign and submit all documents and subsequent clarifications, if any, to the employer. However, he will not submit any such proposals, clarifications or commitments before securing the clearance of the other partner (s)

2.4. The lead member shall sign the agreement or enter into contract in respect of the work awarded, to receive payment, to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said contract. All notices/correspondences with respect to the contract would be sent only to the lead member of the JV firm.

3. The 'Parties' have resolved that the distribution of share, responsibilities, profits, losses and remuneration shall be as under:

- a) Lead Partner's share :%;
 Name
 Responsibilities : i)
 (Technical, Financial & other obligations) ii)
 iii)
 Profits, losses and remunerations :%
- b) Joint Venture Partner's share -----%
 Name
 Responsibilities: i) ii).....
 (Technical, Financial & other obligations) iii)
 Profits, losses and remunerations : %
- c) Joint Venture Partner's share -----%
 Name
 Responsibilities: i)
 (Technical, Financial & other obligations) ii).....
 iii)
 Profits, losses and remunerations :%

4. The constitution of JV firm shall not be altered during the currency of the contract except when modification become inevitable due to succession laws etc. provided that the minimum eligibility criteria are not got vitiated. Failure to observe this stipulation shall be deemed to be breach of contract, which will entitle the employer i.e. the East Coast Railway Administration to take all consequential action as per contract conditions.

5. JOINT AND SEVERAL RESPONSIBILITY

The parties undertake that they shall be jointly and severally liable to the E.Co.Railway acting through Chief Signal & Telecom Engineer, E. Co.Railway, Bhubaneswar or his assignees, for satisfactory execution and completion of the Project work in accordance with General and Special conditions of contract. The JV members shall also be liable jointly and severally for the loss, damages that may be caused to the East Coast Railway Administration, acting through Chief Signal & Telecom Engineer, E. Co.Railway, Bhubaneswar and during the course of execution of the contract or due to non-execution of the contract or part thereof. The parties solemnly affirm and declare that every possible care will be taken by them for ensuring satisfactory execution and completion of the work awarded under the contract.

6. 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 Employer (E.Co.Railway) in respect of the said tender/contract.

7. GUARANTEES AND BONDS

The lead partner shall furnish all bonds/guarantees to the East Coast Railway Administration in the name of J.V. and on behalf of the J.V., which shall be legally binding on all the partners of the J.V.

8. INDEMNITY

Each party hereto agrees to indemnify the other party against its respective parts in case of breach/default of the respective party of the contract works of any liabilities sustained by the Joint Venture.

9. USE OF MACHINERY, INSTRUMENT, LABOUR FORCE etc.

For the execution of the respective portions of works, the parties shall make full arrangements to bring the required finance, plants and equipment, materials, manpower and other resources. However, the parties here to undertake that whatever the machinery, instruments, labour force, (including unskilled, skilled, inspectors, Engineer etc.) they possess at the time of entering into Joint Venture Agreement or which subsequently shall come in their possession and if such machinery, instruments, labour force is required for the speedy and efficient execution of any portion of the work, the party/parties having the control over the said machinery, instruments, labour force etc. without having any regard to their share of profit and loss agreed to between the parties in Joint Venture Agreement shall hand over the same which shall be placed at the disposal of the other party actually executing that portion of the work at mutually agreed terms for the purpose of execution of the contract without any hindrance and obstacle.

10. DOCUMENTS & CONFIDENTIALITY.

Each Party shall maintain confidentiality regarding the information related to the Project, commercial and technical information received or generated in the course of preparation and submission of the bid.

11. ARBITRATION

Any dispute, controversy or claim arising out of or relating to this agreement shall be settled in the first instance amicably between the parties. If an amicable settlement cannot be reached as above, it will be settled by arbitration in accordance with the Indian Arbitration and Conciliation Act 1996 and its amendments thereof. The Venue of the arbitration shall be at Bhubaneswar. Notwithstanding settlement of any dispute amongst the partners of the JV, the JV Partners shall ensure satisfactory completion of the awarded work as per the contract with the Employer.

12. DURATION OF 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 and Security Deposit is released.

13. Name and address of the J.V. firm

(indicate Address, Telephone No. and Fax Numbers of the J.V. firm)

14. Governing Laws : The J.V. Agreement shall in all respect be governed by and interpreted in accordance with Indian Laws.

Declaration:-

It is to certify that we have not been blacklisted or debarred by the Railways or any other Ministries/Departments of the Govt of India/State Govt from participation in tenders /contracts in the past either in our individual capacity or the JV Firm or Partnership Firm in which we were members/partners.

Lead Partner

Other Partner (s)

(Name & Address)

(Name & address)

Name & Address of the JV Firm:-

IN WITNESS WHEREOF, THE PARTIES, have executed this J.V. Agreement
_____the day, _____month and _____year.

For M/s.....
.....
(Seal)

For M/s.....
.....
(Seal)

Witness:

9. (Name & Address.....).

10. (Name & Address.....).

Place :

Date :

(The J.V. Agreement should be notarized first and thereafter it has to be got registered with Registrar of Company Act or with the Registrar/Sub-registrar under the registration act.)

EAST COAST RAILWAY PROJECT ORGANISATION

GENERAL CONDITIONS OF CONTRACT

CHAPTER-06**EAST COAST RAILWAY PROJECT ORGANISATION****GENERAL CONDITIONS OF CONTRACT****1. GENERAL**

- 1.1 The tenderer(s) should not put any unusual condition from their side contradicting terms and conditions in the tender documents. Such unusual /contradicting tender conditions may not be considered.
- 1.2 PROGRAMME IN THE FORM OF BAR CHART FOR COMPLETION OF WORK, MACHINERY DEPLOYMENT FOR ACHIEVING THE PROGRAMMED PROGRESS MUST BE SUBMITTED ALONG WITH THE TENDER.
- 1.3 PLEASE FILL IN REQUIRED INFORMATION ASKED FOR IN THE SPECIFIED PROFORMA ATTACHED IN THE TENDER DOCUMENT. TENDER WILL BE OTHERWISE TREATED INCOMPLETE AND HENCE WILL BE LIABLE FOR REJECTION.
- 1.4 THE QUANTITY SHOWN IN THE SCHEDULES ARE APPROXIMATE AND ARE LIKELY TO VARY ON EITHER SIDE (+/-) AS PER CLAUSE-2 OF SPECIAL CONDITIONS OF CONTRACT.
- 1.5 THE TENDERER(S) SHALL QUOTE UNIFORM PERCENTAGE (WITHOUT FRACTION / DECIMAL) ABOVE OR BELOW OVER THE SCHEDULE OF ITEMS GIVEN IN THE SCHEDULES INDICATING ABOVE OR BELOW CLEARLY IN THE RATE SHEET ONLY.
- 1.6 NO MOBILISATION, MACHINERY OR ANY OTHER ADVANCES WILL BE ALLOWED FOR THIS WORK UNLESS OTHERWISE SPECIFIED.

2. TENDER DOCUMENT

- 2.1 Tenderer(s) are required to submit their offer on the Railway Administration's prescribed tender form and the tenderer(s) shall quote their rates therein as required
- 2.2 Tender(s) must be enclosed in sealed cover super-scribing thereon the name of the work and the Tender Notice No. and must be deposited in the Tender box in any one of the office within the prescribed time as mentioned in the Tender Notice. Tenderer(s) are requested to be present at the time of opening of tender. Tenders which are received after the date and/or time specified may not be considered.
- 2.3 Tenders containing over writing, additions, alterations, erasures, obliterations and other discrepancies may be considered only if corrections made by the Tenderer(s) are properly attested by the Tenderer(s) with their signature.
- 2.4 The Tenderer(s) shall sign every page of the tender documents along with enclosures serially numbered and submit all of them with the tender.
- 2.5 The tenderer(s) should quote rates both in figures and in words. Wherever there is a difference between the rates quoted in figures and in words, the rate quoted in words will be considered as correct.

2.6 COMPANY PROFILE

- 2.6.1 Tenderer(s) should specifically and fully disclose in their respective tender, their respective constitutions and submit along with each tender attested copies of documents like partnership deed, Articles and Memorandum of Association, Certificate of Incorporation etc., if any, in support of such disclosures. If Tenderer(s) is/are a firm i.e. partnership business, it should be stated whether the same is Registered under the Indian Partnership Act, and the name and address of all the partners of the firm should be fully disclosed. The Railway Administration

shall always have the liberty to demand production of the original partnership deed of the said documents and also to make such further and other inquiries regarding the constitution of the Tenderer(s) as may be considered necessary.

- 2.6.2 The tenderer(s) shall clearly specify whether the tender is submitted on his own or on behalf of a partnership concern. If the tender is submitted on behalf of a partnership concern, he should submit the certified copy of partnership deed along with the tender and authorisation to sign the tender documents on behalf of partnership firm. If these documents are not enclosed along with tender documents, the tender will be treated as having been submitted by individual signing the tender documents. The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however recognise such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor.
- 2.6.3 The tenderer(s) whether sole proprietor, a limited company or a partnership firm if they want to act through agent or individual partner(s) should submit along with the tender or at a later stage, a power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether they be partner(s) of the firm or any other person specifically authorising them to submit the tender, sign the agreement, receive money, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the firm and sign "No Claim Certificate" and refer all or any disputes to arbitration.

2.7 PROGRAMME OF COMPLETION OF WORK

- 2.7.1 The Tenderer(s) shall give a comprehensive list of plant and machinery which they propose(s) to use in the execution of work.
- 2.7.2 Tenderer(s) shall submit along with tender a signed BARCHART, Activity wise detailed programme of how they plan to complete the work in the time frame stipulated in the tender along with details of machinery proposed to be deployed to achieve the same. It may please be noted that tender not accompanied by this programme are liable to be rejected.

2.8 REFERENCE TO RULE BOOK AND DRAWINGS

- 2.8.1 The drawings for the works as available can be seen in the office of the concerned Chief Signal & Telecom Engineer/Project/E.Co.Railway,Bhubaneswar or in the office of the concerned Dy. Chief Signal & Telecom Engineer/Proj as the case may be at any time during office hours.
- 2.8.2 The terms "Correction Slip" as referred to in this tender document includes the following terms also.

Addendum Slip, corrigendum slip

Addendum slip and corrigendum slip which are issued in consecutive serials.

- 2.9 S.E Railway Engineering Department's Schedule of Labour and Materials Rate (Revised Edition) 1992 – Volume – I and General Conditions of Contract and Standard Specifications of 2001 Volume – 2 with up to date correction slips can be seen at the offices from where tender documents are made available. Copies of the same can be had on payment of an amount specified for copy of each Volume on any working day during office hours from the office of General Manager, E.Co.Railway, C.S.Pur, Bhubaneswar –23 subject to availability.

3. EARNEST MONEY DEPOSIT (EMD)

- 3.1 The Tender must be accompanied by a sum equivalent to the following which shall be rounded to the nearest Rs. 10/-.

Value of the work (Tender Value)	EMD
For works estimated to cost up to Rs.1 crore.	2% of the estimated cost of the work.
For works estimated to cost more than Rs.1 crore.	Rs. 2 lakhs plus ½% (half percent) of the excess of estimated cost of work beyond Rs.1 crore subject to a maximum of Rs.1 crore.

- (i) The Earnest Money should be in cash or in the form of deposit receipts, pay orders or demand drafts executed by State Bank of India or any of the Nationalized Banks or by a Scheduled Bank.
- (ii) These forms of earnest money are to be endorsed in the name of FA & CAO(Con)/ E.Co.Railway/Bhubaneswar. Earnest Money in shape of Bank Guarantee bond will not be accepted.
- 3.2 The sum mentioned as Earnest Money for each Tender, if desired by Tenderer(s) can be deposited in Cash with the FA & CAO(C), E.Co Railway, C.S.Pur, Bhubaneswar – 23 and the receipt for the deposit should accompany the Tender. In making such deposit, the name of the work for which the money is deposited must be clearly stated in writing in the receipt.
- 3.3 Earnest Money should be submitted in acceptable form. In case the Earnest Money is not deposited in the acceptable form as stated above along with Tender, the Tender will be rejected.
- 3.4 Tender without Earnest Money Deposit will not be considered and the tender will be rejected.
- 3.5 The Tenderer(s) shall hold the offer open for a period of 120 days from the date of opening of Tender. It is understood that the Tender Documents have been sold/issued to the Tenderer(s) and the Tenderer(s) are being permitted to tender in consideration of stipulation on their part that after submitting their tender, they will not resile from their offer or modify the terms and conditions thereof in a manner not acceptable to the Chief Signal & Telecom Engineer, E. Co.Railway, Bhubaneswar / Chief Signal & telecom Engineer(P)/Dy.CSTE/Proj of the E.Co. Railway. Should the Tenderer(s) fails to observe or comply with the foregoing stipulations, the amount deposited as Earnest Money for the due performance of the above stipulation shall be forfeited by the Railway. If the Tender is accepted, the amount of Earnest Money will be retained towards part of Security Deposit for the due and faithful fulfillment of the contract.
- 3.6 The Earnest Money of the Unsuccessful Tenderer(s) as here in before provided will be returned to the Unsuccessful Tenderer(s) but the Railway shall not be responsible for any loss or depreciation that may happen to the Earnest Money for the due performance of the stipulation to keep the 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 thereof.
- 3.7 The Earnest Money deposited by the successful Tenderer(s) will be retained towards the part of Security Deposit for the due and faithful fulfillment of the Contract but shall be forfeited if the Contractor(s) fails to execute the Agreement Bond within 15 (fifteen) days after issue of letter of acceptance to that effect or commence the work within 15 (fifteen) days from issue of letter of acceptance.
- 4 DOCUMENTS AND OTHER CONDITIONS**
- 4.1 The submission of a tender by a tenderer(s) shall be deemed to imply and taken as indicating that he has read, understood and abided by the conditions stated therein and the SE Railway Schedule of Rates (Revised Edition) 1992 Volume – I and General Condition of Contract & Standard Specifications 2001 Volume – 2 including correction slips issued up to the date of opening of tender.

- 4.2 A certificate may be attached along with the Tender papers that the Tenderer(s) has/have purchased S.E Railway Schedule of Rates Volume – I of 1992 and General Condition of Contract & Standard Specifications Volume – 2 of 2001 with correction Slips up to the date of opening of the tender and gone through all the conditions of contract and rates, specifications, etc. embodied therein.
- 4.3 Certificates of completion of work and work under progress in support of the execution of similar type of work mentioned in the tender must be submitted along with the tender issued by the concerned authority of any Government / Semi Government organisation under whom the work executed. The certificate should contain name of work, agreement/work order No , value of the work, date of award , date of completion , total amount paid.
- 4.4 When work is tendered for by a firm or company of contractors, the tender shall be signed by the individual legally authorised to enter into commitments on their behalf.
- 4.5 If the Tenderer(s) expires after the submission of their Tender or after the acceptance of their Tender, the Railway shall deem such Tender cancelled. If a partner of a Firm expires after submission of their Tender or after the acceptance of their tender, the Railway shall deem such Tender as cancelled unless the Firm retains its character legally acceptable.
- 4.6 If the Tenderer(s) deliberately give wrong information in their Tender or create circumstances for the acceptance of their Tender, Railway reserve the right to reject such tender at any stage.
- 4.7 The following documents should be submitted along with the tender.
- (a) List of personnel, organisation available on hand and proposed to be engaged for the subject work.
 - (b) List of Plant & Machinery available on hand (own) and proposed to be inducted (own and hired to be given separately) for the subject work.
- 4.8 The authority for the acceptance of the Tender will rest with the Railway. It shall not be obligatory on the said authority to accept the lowest tender or any other tender and no tenderer(s) shall neither demand any explanation for the cause of rejection of their tender nor the Railway undertake to assign reasons for declining to consider or reject any particular tender or tenders. The Railways reserve the right to accept the Tender either for the full quantity of work or part thereof or divide the works amongst more than one Tender without assigning any reasons for any such actions.
- 4.9 Should a Tenderer(s) find discrepancies in or omission from the drawings or any of the Tender Forms, or should be in doubt as to their meanings, they should at once, bring to the notice of the authority inviting the Tender who may send a written instructions to all Tenderer(s). It should be understood that every endeavor has been made by the tenderer(s) to avoid any error which can naturally effect the basis of the Tender and the successful Tenderer(s) shall take upon themselves and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.
- 4.10 Tender documents in which Tender is submitted by Tenderer(s) shall become the property of the Railway and the Railway shall have no obligation to return the same to the Tenderer(s).
- (a) Before submitting a Tender, the Tenderer(s) will be deemed to have satisfied themselves by actual inspection of the site and locality of the work that all conditions liable to be encountered during the execution of the works are taken into account and that the rates they enter in the Tender Forms are adequate and all inclusive, to accord with the provisions in Clause – 37 of the General Conditions of Contract as amended and corrected from time to time for the completion of works to the entire satisfaction of the Engineer-in-charge.

- (b) When work is tendered for by a firm or company of contractors , the tender shall be signed by the individual legally authorised to enter into commitments on their behalf.
- (c)The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognise such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor.
- 4.11 The successful Tenderer(s) shall be required to execute an Agreement with the President of India acting through the East Coast Railway for carrying out the work according to General Conditions of Contract, Special Conditions/Specifications annexed to the tender and specifications for work and materials as laid down in general conditions of contract and specifications, Part IV of South Eastern Railway as amended/corrected up to the date of opening of tender.
- 4.12 The Tenderer(s) whose tender is accepted shall appear at the office of the General Manager/ Chief Signal &Telecom Engineer, E. Co.Railway, Bhubaneswar /Chief Signal &Telecom Engineer(Proj)/ Dy.Chief Signal& Telecom Engineer (Proj),E.Co..Railway, as the case may be in person or in case of a Firm or Corporation, a duly authorized representative thereof shall so appear to execute the Contract documents within 15 (fifteen) days after issue of letter of acceptance. Failure to do so shall constitute breach of the Agreement effected by the acceptance of the Tender in which case the earnest money accompanying the tender shall be forfeited by the Railway without prejudice to any other rights or remedies.
- 4.13 In the event of any tenderer whose tender is accepted shall refuse to execute / does not execute the contract documents as here in before provided, the Railway may determine that such tenderer(s) has/have abandoned the contract and there upon his/their tender and acceptance letter thereof shall be treated as cancelled and the Railway shall be entitled to forfeit the full amount of earnest money and to recover the damages for such default as per Clause No. 62 of General Conditions of Contract and Standard Specifications-2001, Vol-2 corrected up to the date of opening of tenders.
- 4.14 In case of non acceptance of a tender by the Railway Administration for any reason whatsoever, the Tenderer(s) cannot claim for any expenses incurred by him/them in submitting the Tender for the work or for any other account.
- 4.15 Where there is any conflict between the instructions to Tenderers, Special Conditions with stipulation and condition in these tender particulars in one hand, and South Eastern Railway Schedule of Labour and Material Rates 1992 – Volume – I and General Conditions of Contract and Standard Specifications 2001 – Volume – 2 with corrections slips issued up to the date of opening of tender on the other hand, the former shall prevail.
- 4.16 All the works included in the tender/contract shall be completed in all respect within the time specified in tender document.
- 4.17 The conditional tender is liable for rejection.
- 4.18 Settlement of disputes if any, shall be dealt as per the Clause 63 & 64 of GCC with up to date correction slips.
- 4.19 These instructions to the Tenderer(s) shall be deemed to form a part of the tender document.

The above conditions are under stood and accepted by me/us.

EAST COAST RAILWAY PROJECT ORGANISATION

SPECIAL CONDITIONS OF CONTRACT

EAST COAST RAILWAY PROJECT ORGANISATION

SPECIAL CONDITIONS OF CONTRACT

1 **GENERAL:**

- 1.1 Principal items of works to be carried out by the tenderer/contractor are as noted in the schedule of works viz. Schedules annexed with the Tender /Agreement.
- 1.2 The quantities of works to be carried out by the tenderer/contractor will be as mentioned in the work order/ Agreement.
- 1.3 The approximate value of the work is specified in the Tender Notice /Agreement.
- 1.4 Plans for the works as may be available, may be inspected in the Office of the concerned Chief Signal & Telecom Engineer(Project)/E. Co. Railway/ Bhubaneswar or in the office of the concerned Dy.Chief Signal & Telecom Engineer(P).
- 1.5 TERMS OF GUARANTEE:
- 1.5.1 The contractor shall maintain the entire installation for the period as stipulated in the tender. However, the Contractor shall guarantee satisfactory operation of all installations under the contract for a period of 12 months after commissioning of the work. This guarantee shall also cover rectification of defects that may arise in the works executed under the contract due to bad workmanship on the part of the Contractor or otherwise, The defects pointed out by the Railway's Engineer in this regard will be final and binding and the Contractor [s] shall have to rectify the same at his/their own cost.
- 1.5.2 The Contractor, during the guarantee period, shall carry out in his own expense all modifications, additions or substitutions that may be considered necessary, for the satisfactory working of the equipments.
- 1.5.3 During the period of guarantee i.e. 12 months after commissioning of the work, the Contractor shall be liable for the replacement of any part that may be found defective in the equipment whether such equipment be of his own manufacture or of his Sub-Contractor's provided always that such defective parts as are not repairable at site are promptly returned to the [Contractor's] works if so required by him, at his [Contractor's] own expense, the Contractor shall bear the cost of repairs carried out by him or on his behalf by the Railway at site. Such defective parts should be replaced by new parts, which should correct the defects.
- 1.5.4 During the period of guarantee the Contractor shall keep all materials, tools and other requisite equipment readily available and shall carry out at his own expense all modifications, additions or substitutions that may be considered necessary for satisfactory working of the contracted work or equipment supplied by him. Final decision in respect of unsatisfactory working of the contracted work or equipment or faulty design or workmanship etc., shall rest with the Chief Signal & Telecom Engineer/Proj/ Bhubaneswar / Deputy Chief Signal & Telecom Engineer/ Proj/Waltair.
- 1.5.5 No compensation towards any accident whatsoever will be paid by the Railway.
- 1.5.6 The Contractor shall deposit RS. 25,000/- [Rupees Twenty five thousand only] in any form (FDR/Cash etc) or the same be deducted from first On-Account Bill for materials supplied by the Railway Administration direct to the Contractor for works

from the time he commences taking delivery of the materials to the time the works are completed at site and the quantities finally reconciled.

- 1.5.7 The Contractor shall also be required to furnish an Indemnity Bond on the proforma as per Annexure-N for a sum of Rs. 30,00,000/- [Rupees Thirty lakhs only] or the value of the agreement whichever is less for the materials, which will be handed over to him by Railway Administration for works. The quantity of materials that shall be handed over to the Contractor for execution of the works and the cost of the quantity remaining unused in the custody of the Contractor shall under no circumstances exceed at any time, the value of the Indemnity Bond.
- 1.6 No Mobilisation, Machinery or any other advances will be allowed for this work unless otherwise specified.
- 1.7 All the works included in the tender/contract shall be completed within the time specified in the tender /agreement.
- 1.8 The additional special conditions dealt in the document, Instructions to Tenderer(s) and the stipulations made in the Schedules of items of works shall govern the works under this contract, in addition to and/or in part super session of the SE Railway Schedule of Labour and Material Rates 1992 Vol.1 and General Conditions of Contract and Standard Specifications Vol.2 of 2001 corrected up to date of opening of tender.
- 1.9 Where there is any conflict between the Instructions to Tenderer(s), Additional Special Conditions of Contract and the stipulations contained in the Schedules of Items quantities and rates on the one hand and the SE Railway Schedule of Labour and Material Rates 1992 Vol - 1 and General Conditions of Contract and Standard Specifications Vol.2 2001 corrected up to date of tender opening on the other, the former shall prevail.
- 1.10 Any notes appearing in the Schedule of Quantities and Rates will take precedence over Additional Special Conditions of Contract and also S.E. Railway's GENERAL CONDITIONS OF CONTRACT & SPECIFICATIONS. The Railway will take for granted that Tenderer(s) has/have acquainted himself/themselves with all terms and words used in the tender documents before submitting the tender.
- 1.11 Any specifications/conditions stated by the Tenderer(s) in the covering letter submitted by him/them along with the tender shall be deemed to be a part of the contract only to such an extent as has been expressly accepted by the Railway.
- 1.12 All measurements, methods of measurements, meaning and item of specifications and interpretation of Special Conditions of Contract given and made by the Railway or by the Engineer on behalf of the Railway shall be final and binding and shall be considered as "excepted matters" in terms of condition No. 63 of GENERAL CONDITIONS OF CONTRACT with modifications up to date.
- 1.13 Any change in the address of the contractor shall be forthwith intimated in writing to the Railways. The Railway will not be responsible for any loss or inconvenience suffered by the contractor on account of his failure to comply with this.
- 1.14 The Railway Administration reserves the right to alter the detailed plans and sections and to carry out minor alternations in the plans resulting in the corresponding increase/decrease in the quantity of work without being liable to pay enhanced rates for the work and to allow extra time for completion of the work.
2. **VARIATION IN CONTRACT QUANTITIES:**
- 2.1 Individual NS items in contracts shall be operated with variation of plus or minus 25% and payment would be made as per the agreement rate.
- 2.2 In case of increase in quantity of an individual item by more than 25% of the agreement quantity is considered as unavoidable, the same shall be got executed by floating a fresh tender. If floating a fresh tender is considered not practicable,

negotiations may be held with the existing contractor for arriving at reasonable rates for additional quantities in excess of 125% of agreement quantity.

- 2.3 The limit for varying quantities for minor value items shall be 100% (as against 25% prescribed for other items). A minor value item for this purpose is defined as an item whose original agreement value is less than 1% of the total original agreement value.
- 2.4 No such quantity variation limit shall apply for foundation items.
- 2.5 As far as SOR items are concerned, the limit of 25% would apply to the value of SOR schedule as a whole and not on individual SOR items. However, in case of NS items, the limit of 25% would apply on the individual items irrespective of the manner of quoting the rate (single percentage rate or individual item rate).
- 2.6 Any extra claim from the contractors on the above account shall not be entertained under any circumstances. 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 limits fixed above. Payment shall be made on the basis of detailed measurements of the finalised works as shall be recorded by the Engineer or his representative.
- 2.7 In the event of any reduction in quantity / quantities to be executed for any reason what so ever, the contractor shall not be entitled to any compensation but shall be paid for the actual quantity of the work done.

3. AGREEMENT:

- 3.1. All expenses in drawing up the agreement and the cost of stamp duty, if any, shall be borne by the contractor.
- 3.2. Should the successful Tenderer/Contractor on the list of approved contractor have a relative or relatives or in the case of firm or company or contractors one or more of its shareholders or a relatives of the shareholder(s) employed in the gazetted capacity in the S&T Department of the East Coast Railway, the authority executing the contract shall be informed of the fact at the time of execution of the contract, failing which the contractor may be dis-qualified, or such facts subsequently comes to light, the contract may be rescinded in accordance with the provisions in Clause-62 of the General Conditions of Contract.
- 3.3. Should the successful Tenderer/Contractor find that his relative has/have obtained an employment in gazetted capacity in the S&T Department of the East Coast Railway, subsequent to the execution of the agreement or in the case of a firm or company of contractors, one or more of its shareholders or relative or relatives of the shareholder(s) got employed in the gazetted capacity in the S&T Department of the East Coast Railway, subsequent to the execution of the agreement, the successful tenderer/contractor shall inform the authority executing the contract of this fact, failing which the successful tenderer/contractor may be dis-qualified or if such fact subsequently come to light, the contract may be rescinded in accordance with the provision in Clause-62 of the General Conditions of Contract.
- 3.4 (a) Should a Tenderer/Contractor be a retired Engineer of the Gazetted Rank or any other Gazetted Officer working before his retirement, whether in the executive or administrative capacity, or whether holding a pensionable post or not, in the S&T Department of any of the Railways owned and administrated by the President of India for the time being, or should a tenderer/contractor being partnership firm have as one of its partners retired Engineer or retired Gazetted Officer as aforesaid, or should a tenderer/contractor being an incorporated company have any such retired Engineer or retired Officer as one of its Directors, or should a tenderer/contractor have in his employment any retired Engineer or retired Gazetted Officer as aforesaid, the full information as to the date of retirement of such Engineer or Gazetted Officer from the said service and in case where such Engineer or officer had not retired from Government service at least 2years prior to the date of

submission of the tender as to whether permission for taking such contract, or if the contractor be a partnership firm or an incorporated company, to become a partner or Director as the case may be, or to take the employment under the contractor, has been obtained by the tenderer or the Engineer or Officer, as the case may be from the President of India or any officer, duly authorised by him in this behalf, shall be clearly stated in writing at the time of submitting the tender. Tenders without the information above referred to or a statement to the effect that no such retired Engineer or retired Gazetted Officer is so associated with the tenderer, as the case may be, shall be rejected.

- (b) Should a tenderer or contractor being an individual on the list of approved Contractors, have a relative(s) or in the case of partnership firm or company of contractors one or more of his shareholder(s) or a relative(s) of the shareholder(s) employed in gazetted capacity in the S&T Department of the East Coast Railway, the authority inviting tenders shall be informed of the fact at the time of submission of tender, failing which the tender may be disqualified/rejected or if such fact subsequently comes to light, the contract may be rescinded in accordance with the provision in clause 62 of the General Conditions of Contract.
- 3.5. If it is detected at any stage during the currency of contract/Agreement that any document produced by the contractor during submission of his/ their tender related to finalisation of his/their tender and/or during execution of work is/are found wrong/false, the contract will be terminated with forfeiture of Earnest Money deposit/Security deposit (as the case may be) without any further correspondence with the contractor(s).

4. PASSES

- 4.1. No free Railway passes shall be issued by the Rly. to the contractor or any of his employee/worker.

5 Partnership deeds, Power of Attorney Etc:

- 5.1 The tenderer shall clearly specify whether the tender is submitted on his own or on behalf of a partnership concern. If the tender is submitted on behalf of a partnership concern, he should submit the certified copy of partnership deed along with the tender and authorisation to sign the tender documents on behalf of partnership firm. If these documents are not enclosed along with tender documents, the tender will be treated as having been submitted by individual signing the tender documents. The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however recognise such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor.
- 5.2 The tenderer whether sole proprietor, a limited company or a partnership firm if they want to act through agent or individual partner(s) should submit along with the tender or at a later stage, a power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person specifically authorizing him/them to submit the tender, sign the agreement, receive money, witness measurements, sign measurement books, compromise, settle, relinquish any claim(s) preferred by the firm and sign "No Claim Certificate" and refer all or any disputes to arbitration.

6. DISSOLUTION OF CONTRACTOR'S FIRM:

- 6.1 If the contractor's firm is dissolved due to death or retirement of any partner or for any reasons whatsoever before fully completing the whole work or any part of it undertaken by the Principal agreement, the partners shall remain jointly, severally and personally liable to complete the whole work to the satisfaction of the Railway and to pay compensation for loss sustained, if any, by the Railway due to such dissolution. The amount of such compensation shall be decided by the General

Manager of the Railway and his decision in the matter shall be final and binding on the contractor(s).

7. DEPLOYMENT OF PLANT AND MACHINERY:

- 7.1 The deployment of plant and machinery including moving machines shall be such as not to infringe or cause damage to Railway track or any other Government or private properties. Operation of such equipment involving infringement to moving dimensions prescribed in the Hand book of the Schedule of Dimensions of the Railway shall not be undertaken without the prior approval of the Engineer-in-charge. For any loss or damage resulting from violation of this clause the contractor(s) shall be wholly responsible.
- 7.2 It should clearly be understood that it is entirely the successful tenderer(s)/contractor(s) responsibility and liability to find, procure and use all machinery, tools and plants and their spare parts that are required for efficient and methodical execution of the work. Delay in procurement of such items due to their non-availability or import difficulties or any other cause whatsoever, will not be taken as an excuse for slow progress or non-performance of the work.

8. ISSUE OF MATERIALS

- 8.1 If materials outside the contract are supplied for use on a work on the application of a contractor, the Engineer-in-charge of the work should specify in each case the rate to be charged, which should be the market rate prevailing at the time of supply or the issue rate whichever is higher,. Plus departmental charges which shall be computed as below:-Market rate or issue rate which ever is higher, plus freight 5%, incidental charges 2% and 12.5% departmental charges to cover the cost of Supervision, Storage, interest on outlay.
- 8.2 The materials issued to contractor but remaining unused and in perfectly good condition at the time of completion or determination of the contract shall be returned to the Engineer-in-Charge at a place where directed by him.
- 8.3 In case the contractor fails to return the unused or excess materials supplied outside the contract as per para 8.1 above, over the requirement as calculated, the cost as arrived at in para 8.1 above, increased by 100% will be charged and recovered from the contractor's dues without prejudice the provision of the relevant conditions regarding return of materials governing the contract.

9. STORAGE OF RAILWAY MATERIALS:

The Contractor shall make his own arrangements at the site of work for the safe storage and custody of Railway material issued to him. Such Railway materials issued to the Contractor and stored at the site of work shall be opened for inspection by the Engineer-in-charge or his representative at any time.

10. OCCUPATION AND USE OF LAND:

No land belonging to or in the possession of the Railway shall be occupied by the Contractor without the permission of the Railway. The Contractor shall not use, or allow to be used, the site for any purposes other than that of executing the works. Whenever Non-Railway bodies/persons are permitted to use Railway premises with competent authority's approval, conservancy charges as applicable from time to time may be levied.

11. FORCE MAJEURE CLAUSE

Applicable as per Clause 17 of Part.III of SERly GCC Volume-2 - 2001

12. NIGHT WORK:

- 12.1 No work shall be carried out between sunset and sunrise without previous permission of Engineer-in-charge.

12.2 If the Engineer-in-charge is satisfied that the work is not likely to be completed in time except by resorting to night work, he may order the Contractor(s) to carry out the works even at night without conferring any right on the contractor for claiming any extra payment for the same. All arrangements in this connection shall be made by the Contractor at his own cost.

13. SERVICE ROADS:

13.1 No new facilities such as roads, level crossing, etc. other than those already in existence will be made available to the tenderer(s)/Contractor(s).

13.2 The successful tenderer(s)/Contractor(s) shall make his own arrangements at his own cost for the construction of service roads within the Railway land for the transport of materials. No separate payment shall be admissible to the Successful Tenderer(s)/Contractor(s) for the construction of such road or its repairs and maintenance. The Successful Tenderer(s)/Contractor(s) shall make his own arrangement at his own cost for the construction of any Service Roads outside the Railway land or for the use of any of the existing roads outside the Railway land, required for the transport of materials for the construction of such roads, its repair or maintenance and the successful tenderer(s)/Contractor(s) shall be responsible for payment of road taxes, toll charges, octroi duty, etc. if any. The Railway will have right to use the service roads at all times without any payment to the successful Tenderer(s)/Contractor(s).

13.3 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 unauthorised closure, cutting through, alteration, diversion or obstruction to such roads or water courses by the Contractor 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.

14 WATER SUPPLY:

14.1 Water required for all the works shall be arranged by the contractor at his own cost. No arrangements will be made by the Railway Administration for supplying water to the Contractor either for drinking purpose or execution of work free of cost. Rate quoted shall include the cost of arranging water supply and no separate payment will be made to the contractor on account of water charges.

14.2 The Railway may supply if any surplus water available from its own sources to the Contractor part or whole of the quantity of the water required for the execution of works from the Railway's existing water supply system at or near the site of works on specified terms and conditions and at such charges as shall be determined by the Railway and payable by the Contractor, provided that the Contractor shall arrange, at his own expense, to effect the connections and lay additional pipe lines and accessories on the site and that the Contractor shall not be entitled to any compensation for interruption or failure of the water supply.

15 ELECTRICITY:

15.1 Any electric supply required at site for whatsoever purpose shall be arranged by the Contractor/s. The contractor/s shall be responsible for the arrangements for obtaining electric supply at his/their own cost and rates quoted shall include the cost of providing electric supply arrangements required for the work.

15.2 The Railway 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 Railway and payable by the Contractor provided the cost of arranging necessary connections to the Railway's Electric Supply systems, and laying of underground/overhead conductor, 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.

- 15.3 If required by Contractor/s, the Railway administration may give required assistance in recommending to State Electricity Board for giving necessary electric connection to the Contractor for execution of works.

16. LOSS OF WORK ORDERS:

If the original work order issued to the contractor is lost by him for any reason whatsoever and the Contractor demands for supply of a duplicate of the same, a penal levy **of Rs. 50/- (Fifty only)** for each work order shall be imposed on him for the issue of a duplicate copy.

17 ROYALTY FOR MATERIALS COLLECTED FROM UNDER RAILWAY LAND

- 17.1 If and when the contractor quarries and/or collects materials from or from under Railway land for the purpose of supply of materials and or of work under an agreement based on special rates obtained for various items of work or supplies, he shall be liable to pay to the Railway a royalty at the flat rates hereinafter set out. Such royalty shall be recovered by deduction from the contractor's bill for the supply of materials and or work done under this agreement or from any other sums due to him from the Railway, at the rate prescribed by the State Government authorities and in force during the period the contract is current.

- 17.2 In case of contracts entered into at specified percentage on Schedule of Rates 1992, Volume-I, the royalty rate as fixed in the proceeding para for materials extracted from Railway land will be subjected to tender increase or decrease and will be calculated as under:

Gross value payable as per Schedule of Rates 1992	: X
Royalty leviable as per above	: Y
Tender premium	: Z
Net payment	: (X-Y) + (X-Y) Z

- 17.3 Stores and other materials obtained from the dismantling of any structures within the Railway land and used as building stone pitching or breaking into ballast and stone chips etc., may be used by the successful Tenderer/Contractor on payment of appropriate rate as per Schedule of Rates increased/decreased by the Tender percentage accepted for miscellaneous works, treating the materials as belonging to the Railway.

18 Employment of Graduate Engineers/Diploma Holders by Contractor:

- 18.1 The contractor shall be responsible to ensure compliance with the provision of the Apprentices Act, 1961 and the Rules and Orders issued from time to time in respect of Apprentices directly or through petty Contractors or Sub-Contractors employed by him for the purpose of carrying out the Contract. If the Contractor directly or through Petty Contractors or Sub-Contractors fails to do so, his failure will be a breach of the Contract and the Railway 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 provision of the Act.

NOTE: The Contractors are required to engage apprentices when the work(s) is/are undertaken by them last for a period of one year or more and/or the cost of work is Rs. One lakh or more.

- 18.2 Employment under S&T Works Contract :- Railway Contractors are to employ un-employed **Electrical/Electronic Engineering** Graduates/Diploma holders under them. Fresh Electrical/Electronic Engineering Graduates without any experience of any kind will have to be taken under training on stipend basis at the rate of not less than Rs.4000/- per month for diploma holders and Rs. 4500/- per month for Degree holders for a period of 06 months.

- 18.3 The contractors will be required to employ such un-employed Civil Engineering Graduates/Diploma holders at the rate specified above and the duration for such an employment will be as under:-

Contract Value.	No. Of Eng./Diploma Holders and Degree holders.	Monthly Salary.	Duration.
For works of value more than 5 lakhs but less than Rs. 15 lakhs.	Diploma holder - 1 Degree holder - nil	Engg. Diploma holder not Less than Rs. 4000/-.	During Currency Of Contract
Works of value Rs. 15 lakhs and above	Degree holder - 1	Engg. Degree Holder not less than Rs. 6000/-	Do.

Contractors have to give a declaration along with his Tender to the effect that Graduate Engineers/Diploma Holders employed by him under the particular work for which Tender is submitted are in accordance with the rates and duration as specified above and none of them is related to him(Contractor's) failing which the Tender may be disqualified. In case of wrong information having been given by the Contractors which comes to light subsequently, the Contract may be rescinded and action taken in accordance with Clause 62 of the General Conditions of Contract.

- 18.4 Technical staff of the contractor should be available at the site wherever required to take necessary instructions from the Engineer-in-charge .In case, the contractor fails to employ the technical staff as aforesaid, he shall be liable to pay reasonable amount not exceeding a sum of Rs.6,000/- (Rupees six thousand only) for each month of default, in case of Graduate Engineer, Rs.4,000/- (Rupees four thousand only) for each month of default in case of Diploma Holder (Overseer) to be deducted from his ongoing on A/C bills. The decision of the Engineer-in-charge as to the period for which the required technical staff was not employed by the Contractor and as to the reasonableness of the amount to be deducted on this account shall be final and binding to the contractor.

19 EMPLOYMENT OF RAILWAY'S SURPLUS LABOUR BY CONTRACTOR:

- 19.1 The contractor may be required to engage surplus / retrenched casual labour of the E. Co.Rly if found suitable up to the extent of twenty persons for each lakh or part of the value of the contract during the currency of contract. The terms of the employment between such labour and the contractor may be on mutual agreed forms, subject to the statutory provisions contained in the labour regulations and enactments. The contractor shall indemnify the Railway against any claims arising out of employment of such labour and the Railway shall not be a party to any disputes etc., arising out of the employment of such labour by the contractor.
- 19.2 The contractor shall engage local labour for unskilled work as far as possible and practicable. The Bonded Labour System (Abolition) ordinance 1975 and modifications there in from time to time apply to the present contract. The contractor shall duly observe the provision there of.

20. COMPLIANCE TO THE PROVISIONS OF DIFFERENT ACTS:

The contractor shall comply with the provision of

- (i) Minimum wages Act 1948.
- (ii) Apprentices Act 1961.
- (iii) Payment and wages Act 1936.
- (iv) Contract Labour (Regulation and Abolition) Act 1970.
- (v) Contract Labour (Regulation and Abolition) Central Rules 1971.
- (vi) Workmen's compensation Act.
- (vii) Mines Act.

And the rules and orders issued from time to time for all the above acts.

21. PRICE VARIATION CLAUSE (PVC)

Price Variation Clause is not applicable for this contract.

22. DAMAGES BY ACCIDENTS/FLOODS/RAINS/CYCLONES, ETC.

- 22.1 The Contractor(s) shall take all precautions against damages from accidents, floods or tides etc. No compensation shall be allowed to the contractor for his tools, plants, materials, machines and other equipments lost or damaged by any cause whatsoever. The Contractor(s) shall make good the damages to any structure, plant or materials of every description belonging to the Railway Administration, lost or damaged by any cause during the course of construction work.
- 22.2 The Railway Administration will not be liable to pay the contractor any charges for rectification or repairs which may have occurred from any cause whatsoever, to any part of the new structures during currency of contract.

23. MAINTENANCE

- 23.1 Where supervision of Erection/Testing/Commissioning is a schedule item of the contract, the Contractor shall depute his Competent Erection Engineer to supervise all works of the installation and who shall be responsible for Testing and final Commissioning of the installation to the entire satisfaction of the Railway's Engineer.
- 23.2 Where supervision of maintenance after Commissioning of the installation [for a specified period solely at the discretion of the Railway] is a schedule item of the contract, the Contractor shall depute his competent Engineer who shall supervise the Maintenance of the entire installation for the specified period, solely at the discretion of the Railway from the date of commissioning of the installation. During this period, he shall rectify any defect that may arise in the work executed due to bad workmanship on the part of the Contractor or otherwise, defect in the equipments or due to any other reason and shall repair the defects or replace the defective equipment at the cost of the Contractor. The Railway Engineer's decision in this regard is final and binding on the Contractor.
- 23.3 Charges quoted in Schedule[s] and accepted on account of supervision of Erection/ Maintenance done during the month or part thereof shall be claimed after expiry of the concerned calendar month on production of a certificate from the Railway's Engineer.

24. ANTILARVAL WORK:

- 24.1 During execution of the works against this contract the Contractor(s) shall be responsible for antilarval work at his/their own cost.

25. NON-ITEMIZED WORKS:

- 25.1 Where item not covered by the schedules are to be executed, the rates for such non-itemised works shall be negotiated before commencement of such work or to be got executed through any other agency by the Railway at the discretion of the Railway Administration.

26. TIME IS THE ESSENCE OF CONTRACT:

- 26.1 Time is the essence of contract. All the works are required to be completed in all respects as stipulated by the Railway within the completion date. Progress shall be maintained strictly in accordance with the programme given by the Contractor and accepted by the Engineer-in-charge from time to time as per the programme chart as per (BAR/CE/PERT chart) as will be finalised.
- 26.2 Failure on the part of the contractor to complete the works in the date stipulated in the Agreement for completion of respective works will entitle the Railway Administration to impose penalty on the contractor in terms of S.E.Railway, General Conditions of Contract, & Standard Specifications, Vol-2, 2001 as given in Part-II, III & IV together with its correction slips issued up to the date of opening of tender.

26.3 If the work is terminated during execution of the work, in accordance with the prescribed conditions of Clause-61 and/or 62 of General Conditions and any other relevant Clause appearing in the General Conditions of Contract of the S.E.Railway General Conditions of Contract & Standard Specifications, 2001-Vol-2 as given in Part-II, III & IV together with the correction slips issued upto the date of opening of tender, the Railway Administration reserves the right to invite fresh tenders for the whole or any portion of the work.

27. **INSURANCE:**

The Contractor shall take out and keep in force a policy or policies of insurance against all liabilities of the Contractor for the Railway 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 or the Contractors office for the purpose of carrying out Contract works on the site.

28 **LEAD & LIFT ON CONTRACTOR'S MATERIALS:**

28.1 No lead and lift for the contractors materials is payable for the works executed under this contract or for the materials issued by the Railway mainly cables, cement, steel, pipes, etc. unless otherwise specified.

29 **ISSUE OF RAILWAY MATERIALS:**

29.1 The materials required for the work will be supplied by the Railway at Senior Section Engineer/Section Engineer (Signal&Telecom)/Project/Tatichetlapalem/Visakhapatnam's Stores godown at Visakhapatnam station. The quantity required would be determined by the Railway according to the quantum of work to be done. The Contractor shall be responsible for checking before taking delivery that the all materials given to him are in good condition. The receipt of materials shall be acknowledged by the Contractor or his representative, mentioning details of materials and their quantities on prescribed proforma. The Contractor shall make his own arrangements for transportation of these materials to the work spot and guarding thereof till the works are completed and provisional acceptance certificate issued by the Railway.

29.2 The Contractor shall be liable to render full account of all the materials issued by the Railway. If any quantity of Railway materials consumed excess or wasted or damaged or lost or otherwise not satisfactorily accounted for, necessary recovery shall be made from him at the prevalent market rate plus Railway freight, handling, loading, supervision and incidental charges at rates fixed by the Railway Administration.

29.3 The Contractor shall return all the excess or unused materials supplied to him by the Railway including empty cement bags, empty cable drums and all released materials to the authorized Railway representative at Stores godown of Senior Section Engineer/ Section Engineer (Signal & Telecom)/ Project/ Thatichetlapalem/Visakhapatnam.

29.4 For the works carried out under the South Eastern Railway schedule of labour and material rates, the cost of the transportation and handling of Railway's materials will be paid to the contractor in accordance with the actual leads from the Railway's godown at which the materials are supplied to the site of work at the appropriate rate of the schedule of rates increased or decreased by the percentage quoted by the contractor as per terms of SOR.

29.4 The materials referred to above shall be issued to the contractor as per actual requirements. The contractor/s has/have to return excess materials if any issued, to the Railway's store depot in perfectly good condition to the railway at his/their own cost failing which the cost thereof shall be recovered from him/them at issue rates plus Railway's freight, handling, loading, supervision and other incidental charges at rates fixed by the Railways. To this will have to be added an increase of 100%.

30. SECURITY DEPOSIT:

- 30.1 The Earnest Money deposited by the successful tenderer/contractor to be retained towards security deposit for the due fulfillment of the contract in terms of Clause-16 of the General Conditions of Contract but shall be forfeited, if the contractor fail to execute the agreement within 15 (fifteen) days after issue of Acceptance letter to that effect or commence the work within 15(fifteen) days from the issue of the Acceptance Letter.
- 30.2 In the event of any tenderer whose tender is accepted shall refuse to execute/does not execute the contract documents as here in before provided, the Railway may determine that such tenderer has abandoned the contract and there upon his tender and the acceptance there of shall be treated as cancelled and the Railway shall be entitled to forfeit the full amount of the earnest money and to recover the damages for such default (as per Clause No. 62 of General Conditions of Contract and Standard Specifications-2001, Vol-2) corrected upto the date of opening of tender.
- 30.3 Unless otherwise specified in the Special Conditions, if any, the amount of Security Deposit, rate of recovery, mode of recovery shall be as under.
- (a) Security Deposit shall be 5% of the contract value. The Contractor may deposit the amount in cash with the FA & CAO (Con), E. Co. Railway, Chandrasekharpur, Bhubaneswar or recovery @ 10% may be made from running bills of the contract.
- (b) The rate of recovery shall 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, FD etc. shall be accepted towards Security Deposit.
- (d) In case of contracts of value Rs. 50 crore and above, irrevocable Bank Guarantee shall also be accepted as a mode of obtaining security deposit.
- 30.4 (i) The security deposit shall be returned to the contractor after 12 months from the date of commissioning of the last station/section provided final bill is passed.
- The certificate, interalia to this effect , should mention that the work has been completed in all respects and that all the contractual obligations including maintenance period if any have been fulfilled by the contractor(s) and that there is no due from the contractor to Railways against the contract concerned. Before releasing the Security Deposit, an unconditional and an unequivocal No Claim Certificate from the contractor concerned should be obtained.
- (ii) After the work is physically completed, the security deposit money recovered from the running bills of a contractor shall be returned to him if he so desires, in lieu of FDR/irrevocable Bank Guarantee for equivalent amount to be submitted by him.
- 30.5 No interest will be paid on the said Earnest Money and the Security Deposit or amounts payable to the contractor under the contract.

31 RENEWAL OF DEPOSITS BY CONTRACTORS:

- 31.1 In the case of tenderer(s)/Contractor(s) depositing Earnest Money in the shape of deposit receipt, it shall be the responsibility of the Tenderer(s)/contractor(s) for renewal and revalidation of the currency period of the deposit receipt as required before the expiry of the currency periods. If the Tenderer(s)/Contractor(s) fails to do so, the loss of interest on the deposit receipt, if any, shall be solely on the Tenderer(s)/Contractor's account and the Railway shall not in any way be liable and responsible for the loss of interest suffered by the Tenderer(s)/Contractor(s).

32. PERFORMANCE GUARANTEE & EXECUTION OF AGREEMENT:-

- (a) The successful bidder should give Performance Guarantee amounting to 5% of the contract value in any of the following forms:-

- (i) A deposit of Cash,
- (ii) Irrevocable Bank Guarantee,
- (iii) Government Securities including State Loan Bonds at 5 percent below the market value,
- (iv) Deposit Receipts, Pay Orders, Demand Drafts and Guarantee Bonds. These forms of Performance Guarantee could be either of the State Bank of India or any of the Nationalised Banks;
- (v) Guarantee Bonds executed or Deposits Receipts tendered by all Scheduled Banks;
- (vi) a Deposit in the Post Office Saving Bank;
- (vii) a Deposit in the National Savings Certificates;
- (viii) Twelve years National Defence Certificates;
- (ix) Ten years Defence Deposits;
- (x) National Defence Bonds; and
- (xi) Unit Trust Certificates at 5 per cent below market value or at the face value whichever is less.

Also FDR in favour of FA&CAO(Con), Bhubaneswar, (free from any encumbrance) may be accepted.

- (b) The Performance Guarantee shall be submitted by the successful bidder after the letter of acceptance has been issued, but before signing of the agreement. The agreement should normally be signed within 15 days after the issue of LOA and the Performance Guarantee shall also be submitted within this time limit. This guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the contractor shall get the validity of Performance Guarantee extended to cover such extended time for completion of work plus 60 days.
- (c) The Performance Guarantee (PG) shall be released after the physical completion of the work based on the 'Completion Certificate' issued by the competent authority stating that the contractor has completed the work in all respects satisfactorily. The security deposit, however, shall be released only after the expiry of the maintenance period and after passing the final bill based on 'No Claim Certificate'.
- (d) Wherever the contract is rescinded, the security deposit shall be forfeited and the Performance Guarantee shall be en-cashed and 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 either in his/her individual capacity or as a partner of any other JV/partnership firm.
- (e) The Engineer shall not make a claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:
 - (i) Failure by the contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.
 - (ii) Failure by the contractor to pay President of India any amount due, either as agreed by the contractor or determined under any of the Clauses/Conditions of the agreement, within 30 days of the service of notice to this effect by Engineer.
 - (iii) The contract being determined or rescinded under provision of the GCC the Performance Guarantee shall be forfeited in full and shall be absolutely at the disposal of the President of India.

(f) Specimen of Standard BG Format is given in Chapter 12.

(g) "Bank Guarantees(BGs) to be submitted by suppliers/contractors should be sent directly to the concerned authorities by the issuing bank under Registered post with A.D.

33. SALES TAX, ROYALTY OR ANY OTHER TAXES:

33.1 The Contractor shall bear in full all taxes, royalties and/ or other taxes / duties levied by the State Government and/or Central Government from time to time. This would be entirely a matter between the contractor and State Government/or Central Government. Railway will recover the taxes and royalties through running account bills, if the contractor fails to produce document for proof of payment of taxes and royalties to the Government in the standard format as in practice by the State Government/ Central Government.

34. APPROVAL OF SAMPLES OF MATERIALS

All materials to be used in the work by the contractor shall be subject to the prior approval of the Engineer-in-charge of the work. Before using in the works, the contractor(s) shall submit samples of materials and arrange for the supplies, for the work only, if the same are approved.

35. IS CODES/IRS'S/RDSO SPECIFICATIONS.

- 35.1 (i) Whenever any reference to Code, Specification, Act, etc. is made in the documents, it shall be taken as a reference to the latest version thereof, including all amendments and corrections thereto or otherwise specified.
- 35.2 (ii) The Contractor shall not be entitled to any extra payment on any account for compliance with the various provision of I.S/IRS/RDSO Specifications and Additional Special Conditions. The rate indicated in the Schedule shall be deemed to include all works required to be done in compliance with the specifications.

36. PRE-CAUTION TO BE TAKEN WHILE PLYING OF VEHICLES ADJACENT TO RUNNING LINES TO PREVENT ACCIDENT TO TRAINS.

- 36.1 Vulnerable locations where construction work adjacent to running line can cause accident should be protected by suitable strong barrier which should be included as a paid item in contract schedule. These locations should be decided by Executive In charge of the work at the beginning of construction and intimated to contractor in writing.
- 36.2 The barrier should be painted by retro-reflective paint at suitable interval to give warning at night.
- 36.3 No work adjacent to running track should be carried out at night without express written authority from the Executive Engineer Incharge of the work. In fact, no contractor should do any kind of night working unless the Executive Engineer Incharge of the work gives the specified spots according to priority of work where night working has to be done. These spots should be well lit at night. In addition, the work should always be done under supervision of Railway supervisors in addition to Contractor's supervisors. Suitable Railway personnel should be posted at site with safety equipment's like banner flags, hand signal flags, hand signal lamps and detonators to arrange protection of trains. The Railway supervisors in charge of such work should also give suitable message to adjacent stations as well as through control for issuing caution orders to the trains approaching the work site. For this purpose, he should be equipped with field telephone/walkie talkie set.
- 36.4 The Contractor shall not allow any road vehicle belonging to him or his suppliers etc., to ply in railway land next to the running line. If for execution of certain works viz, earthwork for parallel Railway Line and supply of ballast for new or existing rail line gauge conversion etc., road vehicles are necessary to be used in Railway land next to the railway line, the Contractor shall apply to the Engineer-in -Charge for permission giving the type & No. of individual vehicles, names and License particulars of the drivers, location, duration & timings for such work/movement. The Engineer in Charge or his authorised representative will personally counsel, examine & certify, the road vehicle drivers, Contractor's flagmen & supervisor and will give written permission giving names of road vehicle drivers, Contractor's flagmen and supervisor to be deployed on the work, location, period and timing of the work. This permission will be subject to the following obligatory conditions.
- (i) The road vehicles will ply only between sunrise & sunset.
- (II) Nominated vehicles & drivers will be utilised for work in the presence of at least one flagman & one supervisor certified for such work.

- (iii) The vehicles shall ply 6m clear of track. Any movement/work at less than 6m and up to minimum 3.5m clear of track centre, shall be done only in the presence of railway employee authorised by the Engineer-in-Charge. No part of the road vehicle will be allowed at less than 3.5m from track centre. Cost of such Railway employee shall be borne by the Railway.
- (iv) The Contractor shall remain fully responsible for ensuring safety & in case of any accident, shall bear cost of all damages to this equipment and also damages to Railway & its passengers.
- (vi) The Contractor shall also be bound by the provisions of this agreement to ply the road Vehicle only with adequate margin of safety, well clear of the fixed structure profile of infringement, as stipulated in the rules made under the Indian Railway's Act and to seek and be guided by the Signals and other directions of any look-out men or other personnel retained for the purpose of ensuring safety, and to ensure extra care and vigilance while turning, reversing or moving the road Vehicles in any other manner at an inclination to the running Railway Track or the siding as the case may be. The Contractor shall employ necessary look-out men also at his own cost irrespective of any other arrangement that Railway may make in this regard.
- (vi) Any breach of these conditions by the Contractor and/or his agents affecting the safety of movement of Trains, Engines, or other rolling stock of the Railway shall constitute a breach of Contract by the Contractor entailing liability with termination of contract for default on the part of the Contractor.

37.PAYMENT

Subject to any deduction which Railway may be entitled to make under the contract, the Contractor shall, (unless or otherwise agreed to by them) be entitled to payments as follows:-

37.2 The Contractor shall be entitled to be paid from time to time by way of "On Account" Payments only for such works as in the opinion of the Railway's Engineer he has executed in terms of the contract. Such payments will be made on the basis of actual measurements taken by the Railway's representative not below the rank of inspector-in-charge. All payments due on the Engineer's or the Engineer's Representative's Certificate of actual measurement shall be subject to any deduction as indicated.

37.3 [i] 90% payment for the cost of materials duly inspected and certified (with documents) by the Inspecting Authority authorized by the Railway and supplied by the Contractor shall be paid on delivery of the said materials in good condition at Stores Go-down of Section Engineer/ Senior Section Engineer (Signal/Telecom), Project, Visakhapatnam and on certification by the authorized Railway Representative i.e., Senior Section Engineer/ Section Engineer (Signal/Telecom), Project/Visakhapatnam.

[ii] Balance 10% of the cost of the materials to be paid on commissioning of the Installation (Last station/section) to the satisfaction of the Railway's Engineer.

37.4 It may be noted that under the Finance Act of 1972, a 2% deduction with appropriate surcharge thereon will be made from Contractor's bills paid on or after 1.6.1972 when the contract value exceeds Rs.5000/- and Surcharge on Income Tax as levied by Ministry of Finance, Government of India, time to time is also recoverable from the bills.

37.5 The Security money deposited by the contractor will be refunded as per clause 30 above.

38.RESPONSIBILITY FOR COMMISSIONING

- (i) In order to adhere to the stipulated period of commissioning of the proposed work the contractor shall make his own arrangements to employ sufficient men and materials considered necessary for execution of the work.
- (ii) Until the contract works have been provisionally accepted by the Railway, the contractor shall be entirely responsible for the works, whether under construction, during the tests or in use of the Railway's service in respect of preservation, guarding and maintenance. The

contractor shall keep attendants constantly at sites during the period until Railway's provisional acceptance.

39. CONTRACTOR TO MAKE GOOD THE DEFECTIVE EQUIPMENT:

If the completed equipment or any portion thereof, before it is taken over, be found to be defective or the Contractor otherwise fails to fulfill the requirements of the contract and/or its purpose, the Railway shall give the Contractor notice, setting for the particulars of such defects or failure and the Contractor shall forthwith make the defects good or alter the same to make it satisfactorily working with the said requirements. Should the Contractor fail to do so within a reasonable time after the service of the said notice upon him, the Railway may reject and replace the whole or part of such defective equipment, as the case may be, at the cost of the Contractor, such replacements shall be carried out by or at the instance of Railway within a reasonable time and as far as reasonably practicable, to the same specification and under competitive conditions. The Contractor's full liability under this clause shall be satisfied by the payment to the Railway of the extra total cost, if any, of such replacement delivered and erected as provided for in the original contract, such extra cost being the ascertained difference between the cost of equipment purchased and replaced by the Railway under the provision mentioned above for such replacement and contract price for the plant so replaced, plus the sum, if any paid by the Railway to the Contractor in respect of such defective equipment. Should the Railway not so replace the rejected equipment within a reasonable time, the Contractor's liability under this clause shall be satisfied by the repayment by the Contractor of all money paid by the Railway to him in respect of such rejected equipment.

40. STORAGE OF PETROLEUM PRODUCT.

No petroleum, spirit within the meaning of the India Petroleum Act shall be stored at site or adjacent land until the approval of the Railway and necessary license under the Act has been obtained by the Contractor.

41. INSPECTION CHARGES :

The materials/equipments to be supplied by the tenderer shall be got inspected by RDSO/ RITES/Government Testing laboratory or /Railway representative as decided by the Railways before dispatch of the materials. In general, all safety equipments shall be got inspected by RDSO. The agency for the inspection is the same as that while procuring similar materials by East Coast Railway or as directed by Dy. CSTE/Proj/WAT/E.Co.Rly. before supplying the works. All materials shall be procured from the approved suppliers. Materials to IS specifications shall bear the mark of ISI. The cost of inspection, if levied by the inspecting authorities, and transport to the respective worksite shall be borne by the tenderer(s).

NOTE: THE ABOVE GCC SHALL BE READ IN CONJUNCTION WITH THE LATEST AMENDMENTS/MODIFICATIONS ISSUED UP TO THE DATE. THE UP TO DATE AMENDMENTS/MODIFICATIONS IS AVAILABLE ON INDIAN RAILWAYS WEBSITE (www.indianrailways.gov.in)

For & on behalf of President of India

CHAPTER-8

EAST COAST RAILWAY PROJECT ORGANISATION

ADDITIONAL SPECIAL CONDITIONS OF CONTRACT
(TECHNICAL CONDITIONS OF CONTRACT)

Section A : Safe working methods, felling of trees.

Section B : Code of practice & specifications.

Section C : Taxes ,duties, royalties, price variation and completion period etc.

Section D : Safety Rules

Section E : Price Variation Clause

Section F : Drafting of Vehicles

Section G : Associated Items for quoting Rates.

Section H : Maintenance free earth & Design & Drawing of item No.23 of Sch.A

EAST COAST RAILWAY PROJECT ORGANISATION

Section-A
Safe working methods, Felling of trees etc.

EAST COAST RAILWAY PROJECT ORGANISATION

Section-A
(Safe working methods ,Felling of trees, etc.)

1.0 Felling of Forest Trees:

1.1 If the section passes through forest land, trees coming on the proposed formation are only to be cut as directed by the Engineer-in-charge and under no circumstances trees falling outside the scope of proposed formation should be cut/up rooted. The Contractor or his labour are prohibited to cut the trees for the purpose of fire wood or for any other purpose. Cutting of trees as required under the items of works indicated in the tender schedules may be carried out strictly as directed by the Engineer-in-charge of the work . Unauthorised felling of trees will result in prosecution and imprisonment. so it is the contractor's responsibility to cause no damage to the forest growth and any fuel required by the contractor for his own use or for the use by his labourers, should be arranged by the contractor at his own cost. The contractor should take this aspect into consideration while quoting the rates against the tender.

2.0 Safe Working Methods:

2.1 The Contractor shall, at all times, adopt such safe methods of work as well ensure safety of structure, equipment and labour. If at any time, the Railway finds the safety arrangements inadequate or unsafe, the contractor shall take immediate corrective action as directed by Railway's representative at site. Any direction in the matter shall in no way absolve the contractor of his sole responsibility to adopt safe working methods. It shall be noted by the contractor that the work involves working in close proximity to the existing track. The contractor shall ensure that no damage, injury or loss is caused or likely to be caused to any person or property. The rates quoted shall be inclusive of all leads, lift, re-handling if any due to crossing of track and also shall cover risk to track, life and property during execution of work. The contractor shall adopt all precautionary measures to safeguard track, life, property, structure while execution of work and the rates shall include all measures.

3.0 Provision of level Crossing :

3.1 During the execution of the work, if there is a request from the contractor for the provision of any level crossing for the use of contractor's vehicle, the same will be considered by the Administration. As the provision of level crossing is subject to various safety regulations and the sanction for the same is to be obtained from the commissioner for Railway safety the Railway cannot guarantee the provision of such level crossing at all the places requested by the contractor. The non-provision of such level crossing by the Administration will not confer any claim on the part of the contractor to quote for any damages or extra rates. If a level crossing for vehicle traffic is provided after getting the sanction of competent authority, the same shall be provided,maintained and dismantled when not required by the Railway Administration and the whole cost should be borne by the contractor. Location and number of temporary level crossings to be provided on the existing Railway line to facilitate the construction shall be decided solely by the Engineer-in-charge and his decision in this regard shall be final and binding on the contractor.

EAST COAST RAILWAY PROJECT ORGANISATION

Section-B

CODE OF PRACTICE & SPECIFICATIONS , SPECIAL
CONDITIONS.

EAST COAST RAILWAY PROJECT ORGANISATION

SECTION B

CODE OF PRACTICE & SPECIFICATIONS

1. GENERAL

The specification shall apply to all such works as are required to be executed under the contract or other wise, directed by the Engineer.

- 1.0 The special conditions of contract contained herein shall be supplemented to the General conditions of contract. In the event of any conflict or inconsistency between them the special conditions of contract contained here shall prevail.
- 1.1 The Technical specification of contract as incorporated in this contract document and drawings supplied/mentioned will form the basis for execution of the work.
- 1.2 The South Eastern Railway Schedule of Labour and Material Rates Vol.-I [1992] and General Conditions of Contract and Standard Specifications Volume-II of 2001, and also conditions of Tender and General conditions of Contract for S&T works both amended up to date and special conditions shall form part of this contract agreement and for all purposes be treated as if the same have been incorporated herein.
- 1.3 All the works shall be carried out in accordance with the instructions given in
- [a] Signal Engineering Manual with latest correction slips.
 - [b] Telecom Engineering Manual with latest correction slips.
 - [c] Drawings and instructions issued by RDSO/Lucknow.
 - [d] Instructions and drawings issued by CSTE/East Coast Railway.
 - [e] Instructions given by the Manufacturer.
 - [f] Instructions given by CSTE/ECOR appeared in safety Bulletin.
 - [g] Drawings etc., issued by CSTE of East Coast Railway and DY.CSTE/PROJ/WAT.
 - [h] Any other instructions issued from time to time by the Engineer of the Railway at site.
 - [i] Indian Standard of the Indian Standards Institution.
 - [j] Indian Railway Standard Specifications and code of practice.
 - [k] General Conditions of Contract and Standard Specifications
 - [l] RDDO, (Ministry of Railways), Lucknow Standard Specifications & guide lines.
 - [m] Instructions issued in CSTE/GRC Technical Circular for S&T works
- 1.4 All equipments shall conform to suit 25 KV AC traction areas. The System design and Equipments shall conform to suit additional requirement as necessary to give adequate protection from the effects arising out of the special and abnormal conditions of 25 KV AC single phase, 50 Hz Traction and or to the specifications specially approved by Railway Board.
- 2.0 **USE OF TECHNICAL TERMS AND CONDITIONS:**
- 2.1 Definitions, Technical words and symbols used in circuits and other places shall be as per Indian Standard Specifications. Where they are not available, they should conform to appropriate British Standard Specification.
- 2.2 The Tenderer's Representative and the Railway's Supervisor shall jointly inspect the site and make out a programme and put up to concerned Deputy Chief Signal & Telecom Engineer [Proj], East Coast Railway or his authorized representative for approval.

- 2.3 The work shall be carried out as per the fixed programme approved by Deputy Chief Signal & Telecom Engineer [Proj], East Coast Railway, Waltair or his authorized representative.

3. **DISCREPANCY IN DRAWING AND OTHER DOCUMENTS:**

- 3.1 The Tenderer shall carryout at his expense any alteration of the works due to any discrepancy, error or omission in the drawings or other particulars. Any approval given by the Railway for this purpose shall in no ways absolve the Tenderer from any or all responsibilities for the correct and safe functioning of the equipment. In this regard, the sole responsibility rests with the Tenderer in all respects. Any fittings or accessories, which may not be specifically mentioned in the Tender or the agreement executed thereon, but which are usual and or necessary as per the normal Signal Engineering practice are to be provided by the tenderer without extra charges so that the installation is complete in all respects for rendering useful service.

- 3.2 The Railway may require such alternations to be made on the work during the progress that may be necessary, but should the said alterations be such that either party to the contract considers alterations in prices justified for such alterations, the same shall not be carried out until amended prices submitted by the Tenderer and accepted by the Railway and intimated in writing to the Tenderer.

4.0 **FUTURE DEVELOPMENT:**

If during the period between the date of Tender and signing of the contract, there have been any developments resulting in improvements to these equipment to be installed, in its design or fabrication, the Tenderer shall make available to the Railways all information. The Railway may modify the orders to take advantage of these developments on the basis of mutually agreed terms. The purchaser reserves the right for the alteration/ modification/decision in respect of the work at any stage of the execution. The charges incurred there are to be settled mutually between the Purchaser and Contractor.

- 4.1 It should be clearly understood that it is entirely Contractor's responsibility and liability to find, procure all the machinery, tools and plants and methodical execution of the work. Delay in procurement of such items due to their non-availability or import difficulties or any other causes whatsoever will not be taken as excuse for slow or non-performance of the work.

5. **INSPECTION OF WORK AND MEASUREMENT:**

- 5.1 After completion of the stages of work the Tenderer should inform in writing about the completion of the work to the Railway Supervisor and request for a joint inspection. The measurement of quantities for the purpose of payment to the Contract will be undertaken as per clause No. 45 of GCC Part-III.

5.2 **INSPECTION OF THE WORK:**

The Engineer or the Railway Supervisor 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 material or workmanship or design in comparison to that is called for in the Specification.

- 5.3 In the event of any work already executed and not in accordance with Specifications as in this Tender and/ or determined by the Engineer of which the Tenderer has been apprised, the Tenderer shall carryout alteration/ replacement to such works to the satisfaction of the Engineer for which no additional expenses will be borne by the Railway Administration.

- 5.4 The Tenderer shall carryout such tests at his own expenses as are necessary in the opinion of the Engineer to determine that the contract is being complied with satisfaction and that the Tenderer is not entitled to the payment in respect thereof.
- 5.5 All materials to be used by the Tenderer on the work shall be of approved quality and shall be approved by the Engineer-in-charge before being used in the work.
- 5.6 No extra charges shall be paid to the Contractor towards carriage, loading, un-loading and handling etc., of the materials supplied by the Tenderer and he shall include all such charges in supply of materials.
- 5.7 If the completed work or any portion thereof before it is taken over or during the guarantee period [works includes equipment also] be found defective or otherwise failed to fulfill the requirement of Specification or its purpose, the Railway shall give the Contractor notice setting forth, particulars of such defects or failure and the Contractor shall forthwith make good the defective work or alter the same to make it satisfactory to comply with the said requirement free of cost. Should the Contractor fail to do so within a reasonable time [which time to be decided by the Engineer-in-charge] after the service of this said notice, the Railway may reject and replace the whole or part of such defective work as the case may be at the cost of the Tenderer. Such replacement shall be carried out by or at the instance of the Railway within a reasonable time, and so far reasonably practicable under competitive conditions. The Tenderer's full liability under this clause shall be satisfied by the payment to the Railway of the extra cost being the ascertained difference between the prices paid by the Railway under the above mentioned provisions for such replacement and the contract price for the work so replaced plus the sum if any paid by the Railway to the Tenderer in respect of such defective work.
- 5.8 If it becomes necessary for the Tenderer to replace or review any defective portion of the work under the clause above, then the provision of the said clause, shall also apply to the portion of work as replaced or renewed until expiry of three months from the date of such replacement or renewal or until the end of the above mentioned period of six months which ever is latter. If any defects be not remedied within a reasonable time during the aforesaid period, the Railway proceed to do the work, at the Tenderer's risk and expenses but without prejudice to any other rights or remedies which the Railway may have against the Tenderer in respect of such defects or faults.
- 5.9 In the event of such rejection as aforesaid, the Railway without prejudice to other rights and remedies, and in particular without prejudice to their rights under the clause just preceding, be entitled to the use of the rejected work in a reasonable and proper manner for a time reasonably sufficient and to enable him to obtain other replacement. During such period, if the rejected work is used commercially, the Tenderer shall be entitled to a reasonable sum as payment for such use but the Tenderer shall not be entitled to claim any damage in respect of such period.
- 5.10 Railway reserves the right to suspend the progress of work or any part thereof by reason of whether conditions or by some default on the part of the Contractor or necessary for proper execution and the safety of the work for such time or times and in such manner as may be considered necessary by the Engineer and the Tenderer shall during such suspension period protect and secure the work as is necessary in the opinion of the Engineer. The Tenderer shall not be entitled to the extra cost [if any] incurred by him during the period of suspension ordered by the Engineer owing to the reasons other than aforementioned and when each such period of suspension exceeds 14 days, the Tenderer shall be entitled to such extension of time for completion of the work as Railway may consider proper.

- 5.11 If during the progress of the works the cable or any other materials of the Railways are damaged the cost of the repairs or replacement of such cables or accessories shall be recovered from the Tenderer. Decision of the CSTE/BBS, DY. CSTE [Proj] WAT in regards to the cost to be recovered towards repairs or replacement of materials supplied by the Railway Administration shall be final and binding on the Tenderer.

6. **MATERIALS:**

The percentage quoted by the Tenderer above/below the rates incorporated for various items/ works in schedules shall be inclusive of cost of supply of these items, to be procured by the Contractor. The tendered rates shall also be inclusive of all taxes, such as Central/State/Local including loading, un-loading, lifting, stacking and re-handling of all materials including transportation to the work site. Even after the cables are laid and refilled and On Account payments are made to the Contractor, the security of the Cables laid and other associated equipment solely lies with the Contractor and he has to replace the same at his own cost, if any, theft or loss or damage occurs till the entire section is commissioned to the complete satisfaction of Railway and the same is handed over to the Railway.

7. **INSPECTION OF MATERIALS:**

The materials/equipment to be supplied by the Tenderer shall be inspected by RDSO/RITES/Railway's Representative before dispatch of the materials, as specified. In general Railway Signalling Cables, Relays and all types of Safety Equipment shall be inspected and approved by RDSO. The agency of inspection in general is the same as that while procuring similar materials by East Coast Railway or as directed by Deputy Chief Signal & Telecom Engineer /Proj, East Coast Railway, Waltair before supplying to the works.

The cost of inspection, if levied by RDSO authorities, and transport to the respective work site shall be borne by the Tenderer. If required by Railway Engineer, these materials/equipments shall be subjected to further inspection at the work site also and the cost thereof shall be borne by the Tenderer.

8. **MISCELLANEOUS & CONSUMABLE STORES:**

- 8.1 For execution of the work, the Tenderer shall procure all items of materials inclusive of miscellaneous and consumable items of stores from approved list of suppliers.

- 8.2 The rates quoted by the Tenderer shall be inclusive of cost of miscellaneous, consumable and fastening materials, and nothing extra will be paid for the above stores broadly covering nuts and bolts of different sizes, solder soft, Resin core, screws of different sizes, plastic sleeves and polythene sleeves, copper battery lugs and eyelids, ALCA 'P' Solder, Eyre Flux, insulating tapes, coloured twine balls, French polish, lead wool for packing, Signal & poles name plates , cable tags, foundation bolts for signal & apparatus cases, PVC bunching tape with button, charcoal, common salt, Brush, eyelets Dowel Make CAT. No. 7076, 7928, 71556, Steel hose pipe, MS clamps, MS flats, MS Angles, Aluminum Angles & Flats etc., required for executing the work.

- 8.3 Materials that are necessarily relevant for execution of the item mentioned in work schedule i.e. Schedule-A but not specifically mentioned in the particular item of execution will be arranged by the Contractor. Materials, indicated to be supplied by the Railway, for the work will be supplied by the Railway to the Tenderer free of cost. The Tenderer shall collect the materials at the Railway's Stores depot i.e. Senior Section Engineer /Section Engineer [Signal &Tele]/Proj/ Waltair and carry the materials to the work spot. No extra cost on account of this over and above the rates quoted in the schedule of rates will be accepted.

- 8.4 The Tenderer will have to give a clear receipt for the materials issued from Railway stores every time when issue is made on prescribed proforma.

- 8.5 The Tenderer shall take out and keep in force a policy/policies of insurance, at his own costs, for an amount and period to be approved by the Railway in advance for all the Railway materials in his custody and the insurance cover shall be on any approved General Insurance Corporation/Undertaking of the Government of India.
- 8.6 The Tenderer shall have to make his own arrangement to store the Railway materials in godown at his cost.
- 8.7 While storing Railway materials, the Tenderer should guard against loss due to any cause whatsoever and proper care should be taken in handling materials. The Tenderer will be responsible for storing the materials as mentioned above at the site of work according to Standard conditions and Specifications.
- 8.8 The Railway Administration shall have no liability for late supply of materials by the Railway Administration and the Tenderer shall not be entitled to any compensation due to the late supply of the same. In the event of any appreciable delay in the supply of the materials by the Railway Administration, the completion date may be extended for the work, directly affected by the Engineer-in-charge of the work at his sole discretion and this shall be binding on the Tenderer. The Tenderer should however apply for extension of time required by him, bringing out clearly the nature of the delay and justifying the extension as asked for.
- 8.9 Where items not covered by the Schedule are to be executed the rates for such non-itemized works will be negotiated before commencement of such work or got executed through any other agency at the discretion of the Railway Administration.
- 8.10 Only Tenderers having experience in similar works in Signalling & Telecom need to quote for the work in advertised tender. Certificates regarding previous experience for execution of works of the same kind must accompany each Tender.

9. **ALTERATIONS AND DEVIATIONS:**

Any alteration or deviation from the specifications, drawings, layout plans to suit the site conditions or to meet the instructions or for any reason whatsoever shall be got approved by Deputy Chief Signal & Telecom Engineer [Proj], East Coast Railway, Waltair before effecting such changes.

10. **TIME LIMIT:**

This work shall be completed in all respects within stipulated time of completion from the date of issue of the acceptance letter. 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 Clause-42 of GCC] by the date entered in the Contract, provided that if any modifications have been ordered which, in the opinion of the Engineer have materially increased the magnitude of the works, 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 he may consider necessary as soon as a cause thereof shall arise and in any case not less than one month before the expiry of the original date fixed for completion of the works.

11. **DELAYS AND EXTENSION OF TIME:**

If in the opinion of the Engineer the progress of works has at any time been delayed by any act of neglect of the Railway employees or by any other Contractor employed by the Railway under sub-Clause [4] of clause-20 of GCC or by strikes, lockouts, fire, unusual delay in transportation, exceptionally inclement weather, un-avoidable casualties or any causes beyond the Contractor's control as by the reasons of proceedings taken or threatened by or dispute with adjoining or neighboring owners or public authorities arising otherwise than through the Contractor's own default etc., or by

delay authorized by the Engineer pending arbitration or in consequence of the Contractor not having received in due time necessary instructions from the Railway, for which he shall have specifically applied in writing to the Engineer or his authorized representative or by any other cause which the Engineer shall decide to justify the delay, then the time of completion of the work may be extended for such reasonable time as the Engineer on behalf of the Railway may decide.

12. In the event of any failure or delay by the Railway to handover to the Contractor possession of the lands necessary for 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 Railway 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, thereof but in any such case the Railway may grant such extension or extensions of the completion date as may be considered reasonable.

13. **FAILURE TO COMPLETE THE WORK WITHIN THE TIME LIMIT:**

The time for completing the works by the date or extended date fixed for completion shall be deemed to be of the essence of the contract and if the Contractor shall fail to complete the works within the time prescribed, the Railway shall, if satisfied that the works can be completed by the Contractor within a reasonably short time thereafter, be entitled, without prejudice to any other right or remedy available on the behalf, to recover by way of ascertained, and liquidated damages a sum of equivalent to ½ of 1 percent of the Contract value of the works for each week or part of week the Contractor is in default and allow the Contractor such further extension of time as the Engineer may decide.

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 the undernoted percentage value or of the total value of the item or groups of items of work for which a separate distinct completion period is specified in the contract.

- (i) For contract value up to Rs.2 lakhs :10% of the total value of the contract.
(ii) For contracts valued above Rs.2 lacks :10% of the first 2 lacks and the 5% of the balance

If the Railway is not satisfied that the works can be completed by the Contractor and in the event of failure on the part of Contractor to complete the works within the further extension of time allowed as aforesaid the Railway shall be entitled without prejudice to any other right or remedy available on the behalf to appropriate the Contractor's Security Deposit and rescind the Contract under Clause-62 of GCC, whether or not actual damage is caused by such default.

14. **ENGINEERING ORGANISATION WITH THE CONTRACTOR :-**

The contractor should have an Engineering organization to maintain quality of the work during execution. The above requirement is in addition to other staff required for execution. If the contractor fails to depute the above mentioned personnel , Railway shall be entitled to rescind the contract.

Sl. No	Slab	No of degree/diploma holders
i)	Up to 25 lacks	Minimum One experienced Diploma holder in relevant discipline
ii)	More than 25 lacs up to 1 crore	Minimum One experienced graduate Engineer in relevant discipline
iii)	More than 1 crore up to 5 crore	Minimum One experienced graduate Engineer & one Diploma holder in relevant discipline

EAST COAST RAILWAY PROJECT ORGANISATION

Section-C
TAXES AND DUTIES, ROYALTIES, PRICE VARIATION AND
COMPLETION PERIOD ETC.

EAST COAST RAILWAY PROJECT ORGANISATION
SECTION-C

SPECIAL CONDITIONS OF CONTRACT – TAXES AND DUTIES, ROYALTIES, PRICE VARIATION AND COMPLETION PERIOD ETC.

Name of Work: “Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda&Singapuram Road stations in WALTAIR division of East Coast Railway”.

Principal items of works:

Execution of work for Installation of MACLS with Panel Interlocking at Rayagada, Ladda & Singapuram Road and supply of critical Signaling materials.

2. Completion Period:

All works under this contract are required to be completed within **9(Nine)** months from the date of issue of acceptance letter.

3. **The Price Variation Clause is not applicable for this contract as per tender conditions.**

4. Sales Tax/VAT as applicable is recoverable from the bills of the contractor @ 4% or at the rates as specified/proposed by the Govt. from time to time.

5. Income Tax @2.3% is deductible from all the bills of the contractor.

6. Any other taxes/duties like Entry Tax/Octroi/Royalty etc. shall be on contractors accounts.

7. The present rates of the recovery of the royalty charges are as under :

Sl.No	Name of minor minerals	Rate of royalty per Cubic Metre
1	Ordinary Sand	Rs.10/-
2	Ordinary clay, silt, rehti, brick-earth, ordinary earth, moorum	Rs.10/-
3	Sandstone, late rite and slate in shape of slabs and tiles	Rs.50/-
4	Ordinary boulders used for road and civil constructions	Rs.36/-
5	Road metals including ballast and chips	Rs.36/-
6	Bajri and crusher fines	Rs.10/-

The revised rates if any will be recovered as per the directions of the State Govt. of Orissa/AP/CG from time to time.

8. The works are required to be executed in the district of AP.

9. The execution of this work is to be completed on top priority basis.

10. Contractors who have adequate experience and resources to adhere to the specification and completion schedule should participate in this tender.

11. Any diversion required for execution of work shall be paid under the respective items of the schedules.

EAST COAST RAILWAY PROJECT ORGANISATION

**Section-D
(SAFETY RULES)**

EAST COAST RAILWAY PROJECT ORGANISATION

Section-D (SAFETY RULES)

1. SAFETY MEASURES:

The Contractor shall take all possible precautions to ensure that none of his workers knowingly or unknowingly or otherwise cause interference to the circuits or equipments in use and give rise to unsafe conditions or dislocation of traffic.

No work shall begin above or under or adjacent to any line of the Railway in consequence of which it may become necessary to foul any such line or it may in any way prejudice the same for safe passage of traffic until look out and hand signalmen as required by the Engineer or his representative, shall have taken their duties.

The Contractor shall take all precautionary measures in order to ensure the protection of his personnel moving about or working in the Railway premises, which shall conform to the rules and regulations of the Railway. If and when in the course of the works, there is likely to be any danger to persons in the employment of the Contractor due to running traffic while working in the Railway siding and premises, the Contractor shall apply in writing to the Railway Administration to provide Flagmen or look out men for protection of such persons. The Railway Administration will, however, decide as to whether it is necessary to post such Flagmen for various types of work and also the number of such men required to protect the gang or gangs of Contractor's staff working at site. The Railway Administration shall remain indemnified by the Contractor, in the event of any accident occurring in the normal course of work, arising out of the failure of Contractor or his men to exercise reasonable precaution at all places of work whether or not the Railway Administration has posted Flagmen at any particular site of work. The Flagmen will be appointed by the Railway Administration and no expense on this account will be charged to the Contractor.

The Contractor shall abide by all Railway regulations in force for the time being and ensure that the same are followed by his representatives, agents or workmen. He shall give due notice to his employees and workers about provision of this para.

While working within station limits, especially on passenger platforms, the Contractor shall ensure that at all times sufficient space is left for free movement of passenger traffic. He must cover and / or barricade the excavation carried out in such areas and continue to maintain these, till the work is completed, with a view to avoiding any accident to public or to Railway staff.

The works must be carried out most carefully without any infringement of the Indian Railways Act or the General and Subsidiary Rules in force on the Railway, in such a way that they do not hinder Railway operation nor affect the proper functioning of or damage any Railway equipment, structure or rolling stock except as agreed to by the Railway Administration, provided that all damage and disfiguration caused by the Contractor to any Railway or public property must be made good by the Contractor at his own expense failing which cost of such repairs shall be recovered from the Contractor.

If safety of track, drainage etc., is affected as a consequence of works undertaken by the Contractor, the Contractor shall take immediate steps to restore normal conditions. In case of delay the Railway Administration shall, after giving due notice to the Contractor in writing, take necessary steps and recover the costs from the Contractor.

The Contractor shall be responsible for safe custody of all materials supplied to the Contractor by the Railways in terms of the contract and such materials are to be guarded by the Contractor after the same are handed over to the Contractor and intimation to this effect is given to the Contractor by the Railway's Representatives.

All costs for guarding all the materials supplied by the Railways to the Contractor will be borne by the Contractor till the same are taken over by the Railway.

In the event of any theft or damage of the Railway materials including cables after these are handed over to the Contractor, Contractor will bear all the charges towards replacement of or repair to these materials.

The Contractor will be held responsible for any damage to water, electricity, sewage mains, signal or telecommunication cables, power cables, P & T cables or the permanent way or any other Railway installation due to the digging of trenches and laying of cables. In course of excavation, any liability arising out of the buildings, telephone or signalling cables, electric mains, gas and water pipes etc., will have to be met by the Contractor.

2. PRECAUTION TO BE TAKEN WHILE PLYING OF VEHICLES ADJACENT TO RUNNING LINES TO PREVENT ACCIDENT TO TRAINS

2.2 Whenever a Lorry or any other Form of Road transport is required to ply along or in the vicinity of a running line or any other Rly. track where Rly. Engines or Trains are liable to move, the Contractor shall inform the Engineer in writing, of such requirement specifying the locations & duration of time over which such specified Road Vehicles have to operate in the area (for loading, leading or unloading of earth, ballast or any other materials, or plants or equipments) without any obstruction or dislocation to the running Trains. The Contractor shall also furnish the particulars of Vehicles & the names & Photographs of Driver & Attendant retained for each Vehicle to enable the Engineer to issue necessary permits allowing the holder to operate the Vehicles, with such restrictions regarding duration and /or location as are considered necessary. Such permit shall be returned to the Engineer as soon as the work for which it is issued is over.

2.2 The Engineer-In-Charge or his Authorised Representative will personally counsel, examine & certify the road Vehicle Drivers, Contractor's Flag Man & Supervisor and will give written permission giving names of Road Vehicle Drivers, Contractor's Flag Man and Supervisor to be deployed on the work, location, period and timing of the work. This permission will be subject to the following obligatory conditions :

- (a). The Road Vehicles will ply only between sunrise and sunset.
- (b). Nominated Vehicles and Drivers will be utilised for the work in presence of at least one Flag Man and one Supervisor certified for such work.
- (c). The Vehicle shall ply 6 mtr. Clear of track. Any movement/work less than 6 mtr. and up to minimum 3.5 mtrs. from track centre, shall be done only in presence of Rly. Representative authorised by the Engineer-In-Charge. No Road Vehicle will be allowed to ply less than 3.5 mtrs. from track centre.
- (d). The Contractor shall remain fully responsible for ensuring safety and in case of any accident shall bear the cost of all damages to this equipment and crew and also damages to Rly. and its Passengers. Engineer-In-Charge may impose any other condition necessary for a particular work of site. Such permit shall be returned to the Engineer, as soon as the work for which it is issued is over.

2.3 The Contractor shall execute a Bond undertaking to ply the Road Vehicles in a safe and satisfactory manner and strictly in accordance with the stipulation and other conditions specified by the Engineer and to engage and retain only the permit Holder to be the Contractor's Agent In-Charge of the Vehicle and the attendance shall at all time, be vigilant and on the look out for signals from the Look Out Man, Flag Man or

other personnel available at Site with a view to stop or late the road movement so as to ensure adequate margin of safety for the timely passage of an approaching Train or a Rly. Engine, without any delay or detention.

- 2.4** The Contractor shall also be bound by the provisions of this Agreement to ply the Road Vehicles only with adequate margin of safety, well clear of the fixed structure profile of infringement, as stipulated in the rules laid under the Indian Rly.'s Act and to seek and be guided by the signals and other directions of any Look Out Man or other personnel retained for the purpose of ensuring safety, and to ensure extra care and vigilance while turning, reversing or moving the Road Vehicles in any other manner at an inclination to the running Rly. track or the siding as the case may be. The Contractor shall employ necessary Look Out Man also at his own cost, irrespective of any other arrangements that Rly. may make in this regard.
- 2.5** The Contractor also undertakes to make good at his cost, any inconvenience, loss, damage or other expenses, caused to the Rly. Administration and to pay such amount as are determined by the Engineer to be recoverable from Contractor as penalty or damages from any omission , negligence, carelessness, over sight or accident on the part of any Contractor's Agent, Drivers or Attendant or any other person to whom the services of the Holder of the permit (issued by the Engineer) has been lent or otherwise made accessible available.
- 2.6** Any breach of these conditions by the Contractor and his Agents affecting the safety of movement of Trains, Engines, or other rolling stock of the Rly., shall constitute a breach of contract by the Contractor entitling liability termination of contract for the fault on the part of the contractor.
- 2.7** In exceptionally vulnerable locations, physical barrier in the form of barricades a height of 1.5 mtr. or trenches on ground shall be provided by the Contractor at his cost so as to indicate the limit up to which the Vehicle can be approached near the running line. The locations or circumstances under which such barriers have to be put will be decided personally by the Engineer-In-Charge.
- 2.8** Suitable gates/barriers should be installed across the new embankment, preferably adjoining the manned/unmanned level crossings. The entry for the vehicles shall be regulated by an authorized representative of the Engineer- in -charge during the working hours.
- 2..9** Under ground/over head obstructions such as pipe line, electrical cables/wires, signal cables/wires, drains may come in the way of execution. Contractor has to take all necessary precaution to safe guard the above till it is diverted/shifted to suitable location. Petty Civil Engineering works required for above have to be done by the contractor under relevant schedule to wherever applicable.

EAST COAST RAILWAY PROJECT ORGANISATION

Section- E
PRICE VARIATION

EAST COAST RAILWAY PROJECT ORGANISATION

Section- E

PRICE VARIATION

No Price Variation Clause (PVC) shall be applicable for this tender.

EAST COAST RAILWAY PROJECT ORGANISATION

Section-F

Drafting of Vehicles, Working Hours

EAST COAST RAILWAY PROJECT ORGANISATION

Section-F Drafting of Vehicles, Working Hours etc.

1.0 Drafting of vehicles:

- 1.1 The Railway shall reserve the right to draft any of the vehicles and/or equipments mobilised by the contractor at the site of the work along with its operator employed by the contractor to assist in rescue and restoration operation in case of any accidents/natural calamities involving human lives. The contractor shall be responsible to arrange mobilisation of his operator/equipment/vehicle so drafted with shortest possible delay.
- 1.2 The Railway shall arrange to duly compensate the contractor. Whose vehicle/equipment/operator or so drafted by the operation of suitable non-scheduled(N.S) items as per Railway's existing norms.
- 1.3 The working hours of labourers in Summer months of April and May will be from 6 Hrs to 11 Hrs and 16.00 Hrs to 19.00 Hrs.

EAST COAST RAILWAY PROJECT ORGANISATION

Section-G
Associated Items for quoting Rates

EAST COAST RAILWAY PROJECT ORGANISATION

SECTION-G

Associated Items for quoting Rates.

Unless specifically provided for in item, the rates quoted for all items of Schedule shall include the cost of :-

1. All taxes, E.D., Octroi, and State Entry taxes and all other Central/State/Local Govt. taxes. The practice of issue of 'D' form against supply of material stands withdrawn.
2. Supply of sundry materials like ferrules, eyelets(make:Dowell's), busbars, bunching materials, solders, insulating tapes, sleeves, M.S flat, M.S angle, nuts & bolts, washers, screws, sand, stone chips, grease, lubricating oil, jute, waste cotton, lead wool etc. and any other petty consumables.
3. Supply of cement except where otherwise stated specifically.
4. Initial Painting and lettering works as per Railway standard and guidelines.
5. Transportation of materials from the store at Vishakhapatnam to site of work except where otherwise indicated.
6. Supply of all types of wires, sealed wires, co-axial cables, switches, cable connectors and wiring materials as required and as advised by the Railway. All materials supplied with execution, Wires, cables, other wiring materials like terminals, fuses, bus bars, Tag Blocks etc. and all types of Insulation materials wherever required shall be procured from RDSO approved sources (wherever applicable). Proof to this effect shall be submitted to the Railway.
7. Handling/shifting/rearranging of railway ballast wherever required.
8. Rock requiring control blasting:-
 - (i) If blasting is required for trenching work in hard rock areas , control blasting must be done very carefully taking all the measures to prevent any untoward incident. The Contractor must keep a competent blasting Foreman available as and when required at site.
 - (ii) Any damage to the overhead electric/telephone wire or property or life due to blasting operation is the sole responsibility of the Contractor. Any compensation thereof likely to be paid towards any damage will be borne by the Contractor. All labour, skilled, unskilled, supervisory, specialised as required shall be deputed by the contractor..
9. All temporary arrangements like shuttering, scaffolding, staging, supports, shoring, making templates etc. inclusive of all labour and materials required for the work , dismantling of such arrangement after completion of permanent work and removing from site, submission

of detailed drawings/designs for such temporary arrangements are to be approved by the Engineer-in-charge at site.

10. All such equipment, tools, jacks, cranes, drilling equipment, grouting equipments, plant and machinery etc. as may be required for executing the work in a modern and workman like manner as per specifications, inclusive of cost of such equipment, bringing to site, labour and fuel for operation, maintenance etc. complete.
11. All works being executed as per specification of these tender documents, G.C.C. relevant IS/IRS Codes MORT & H specifications as applicable to best quality and finish.
12. Executing the work as per items of schedule, complete in all respect and any other incidental charges other than those listed in these notes, as may be necessary. All the works shall be carried out in accordance with the approved drawings.
13. Carrying out the work at any height/depth, above/below the ground, at any location at the work site.
14. Taking all safety precautions for keeping the working spaces free from obstructions without endangering the Railway property and personnel.
15. All jungle clearance, cutting and uprooting of trees, crossing one or more Railway Lines making service dag-bel's and reference pillars, bailing out water with contractor's pumps, removal of slush where encountered, dressing of spoil heaps, banks and cuttings to final dimensions.

EAST COAST RAILWAY PROJECT ORGANISATION

Section-H

**Maintenance free earth &
Design & Drawing of item No.23 of Sch.A**

EAST COAST RAILWAY PROJECT ORGANISATION

SECTION-H

1. Execution of Maintenance Free Earth-

Installation, testing and commissioning of Single Earth as per RDSO Spec. No. RDSO/ SPN/197/2008, Drawing No. SDO/RDSO/ E&B /001 & 002, dt. 19.09.08 or latest amendment if any. The material supplied against Schedule B will be issued to the contractor by Railway and rest all material required for execution of the work shall be arranged by the contractor. This includes the following:-

- a).** Digging/Auguring/Boring of single earth pit of 100 mm to 125 mm dia to the depth of approx. 2.8 meter.
- b).** Insertion of 3.0 meter electrode and penetrating it at least 150 mm by pushing gently with sledge hammer where the natural soil is available.
- c).** Filling of earth pit with Earth Enhancement Compound (EEC) in slurry form and after the material gets set, the diameter of the composite structure (earth electrode + earth enhancement material) shall be of minimum 100 mm dia covering entire length of the hole.
- d).** Remaining portion of the hole shall be covered by back filling soil.
- e).** Carrying out exothermic weld connection on single earth electrode to a copper bus bar of 150x25x6mm.
- f).** Digging a trench to a depth of at least 0.5 m and laying of two 35 sq mm earth conductor from Earth pit to MEEB. The earth conductor should be as per technical specification given in annexure-VI.
- g).** Termination of two 35 sq mm earth conductors on 300x25x6mm MEEB bus bar by using copper lugs , spring washers and bimetallic nuts and bolts. The MEEB is to be fixed inside the equipment room with low voltage insulator spacers of height 60 mm and 0.5 m height from the room floor. The fixing material shall be supplied by the contractor.
- h).** Carrying out exothermic weld connection on the copper bus bar of 150x25x6mm on Earth Electrode for connecting two 35 Sq mm cables for redundancy.

Note:-1.For additional loop earth if required, bare copper strip 25X2mm has to be provided for interconnecting the earth pits in lieu of 35 sq mm earth electrode as above. The laying and terminating of interconnecting earth strip should be as per Para no.8.4.2 of RDSO specification No. RDSO/SPN/197/2008 dated 19.09.2008 or latest.

Note:-2. RDSO approved/recommended exothermic welding material for bonding the earth system shall be used.

i). Provision of 300 X 300 X 300 mm (inside dimension) concrete Earth Pit with a concrete lid, approx 50mm thick with pulling hooks, to cover the pit. Back side of the cover will be painted in black paint and date of the testing and average resistance value shall be written.

2.Supply of Maintenance free earth

Supply of Earthing and Bonding Systems as per RDSO Spec. No. RDSO/ SPN/ 197/2008, Drawing No. SDO/RDSO/ E&B /001&002, dt. 19.09.08 or latest amendment if any. This includes:-

- a).** Copper bonded steel earth electrodes of 3.0 mtr. long, 17.0 mm dia with copper bonding thickness of min 250 micron and UL listed and marked -- 1 No.
- b).** Earth Enhancement compound of RDSO Approved/recommend brand supplied in sealed bags of min 10 Kgs – 3 Nos.
- c).** Copper Strip of 150 x 25 X 6mm to terminate Earth Rod - 1 no.
- d).** Copper Strip of 300 x 25 x 6 mm (MEEB) - 1 no.
- e).** Copper Strip of 150 x 25 x 6 mm (SEEB) - 1 no.
- f).** Copper Earth conductor 35 sqmm PVC insulated for connecting Main Earth Electrode to MEEB in the equipment room (duplicated) as per IS: 694 and technical specification annexed - 30 mtr approx.

Note:-For additional loop earth if required, bare copper strip 25X2mm has to be provided for interconnecting the earth pits in lieu of earth conductor as above. The laying and terminating of interconnecting earth strip should be as per Para no.8.4.2 of RDSO specification No. RDSO/ SPN/197/2008 dated 19.09.2008 or latest.

Inspection to be done by authorized Representative of Dy.CSTE/P/WAT

Design & Drawing of item No.23 of Sch.A :

A.Design & submission of Three paper copies-

Sr. No.	Description	Unit	Qty.
1	Design of SIP & submission of three copies for approval	Set	1
2	Design of SWRD & submission of three copies for approval	Set	1
3	Design of RCC & submission of three copies for approval	Set	1
4	Design of FPD & submission of three copies for approval	Set	1
5	Design of cable route plan (station section)& submission of three copies for approval	Set	1
6	Design of cable route plan (Block section)& submission of three copies for approval	Set	1
7	Design of cable distribution plan submission of three copies for approval	Set	1
8	Design of Track Bonding plan submission of three copies for approval	Set	1
9	Design of Circuit Diagrams consisting as mentioned below submission of three copies for approval	Per Station	1
	(a) Wiring diagram		
	(b) Relay Disposition chart		
	© Contact analysis and fuse particulars.		
	(d) Panel Termination Chart		
	(e) CT Rack Particulars		
10	Design of Circuit Diagrams consisting as mentioned below submission of three copies for approval	Per Station	1
	(a) Floor plan of Relay room , Battery room , Power Eq. room, Data logger room etc.		
	(b)Power supply Diagram along with power supply calculation.		
	©Earthing diagram.		
11	Design of Location Box Drawings (including contact Analysis,Fuse particulars etc.) and submission of three paper copies for approval	Per Station	1
12	Design of Goomty drawings (including Relay disposition chart,Contact Analysis,Fuse particulars,CT Rack particulars and floor plan etc.)and submission of three paper copies for approval	Per Station	1

B.Supply of original tracings

1	Supply of original tracing of SIP after incorporating all the corrections	No.s	1
2	Supply of original tracing of SWRD after incorporating all the corrections	No.s	1
3	Supply of original tracing of RCC after incorporating all	No.s	1

	<i>the corrections</i>		
4	<i>Supply of original tracing of FPD after incorporating all the corrections</i>	<i>No.s</i>	<i>1</i>
5	<i>Supply of original tracing of cable route plan(station section) after incorporating all the corrections</i>	<i>No.s</i>	<i>1</i>
6	<i>Supply of original tracing cable route plan(Block section) after incorporating all the corrections</i>	<i>No.s</i>	<i>1</i>
7	<i>Supply of original tracing of cable distribution plan after incorporating all the corrections</i>	<i>No.s</i>	<i>1</i>
8	<i>Supply n of original tracing of Track bonding plan after incorporating all the corrections</i>	<i>No.s</i>	<i>1</i>
9	<i>Supply of original tracing of circuit diagrams consisting of the items as mentioned below after incorporating all the corrections</i>	<i>Per Station</i>	<i>1</i>
	<i>(a)wiring diagrams</i>		
	<i>(b)Relay disposition charts</i>		
	<i>©Contact Analysis and fuse particulars</i>		
	<i>(d)Panel termination chart</i>		
	<i>(e)CT rack particulars</i>		
10	<i>Supply of original tracing of Miscellaneous diagrams consisting of the items as mentioned below after incorporating all the corrections</i>	<i>Per Station</i>	<i>1</i>
	<i>(a)Floor plan of relay room,Battery room,Power equipment room,Data Logger room etc.</i>		
	<i>(b)Power supply diagrams along with power supply calculation</i>		
	<i>©Earthing diagram</i>		
11	<i>Supply of original tracing of Location box drawings (including contact analysis,Fuse particulars etc.) after incorporating all the corrections</i>	<i>Per Station</i>	<i>1</i>
12	<i>Supply of original tracing of Goomty Drawings (including relay Disposition chart, Contact Analysis and fuse particulars, CT rack particulars and floor plan etc.) after incorporating all the corrections</i>	<i>Per Station</i>	<i>1</i>

C.Supply of Ammonia print

1	<i>Supply of Ammonia print of approved SIP</i>	<i>Nos.</i>	<i>3</i>
2	<i>Supply of Ammonia print of approved SWRD</i>	<i>Nos.</i>	<i>3</i>
3	<i>Supply of Ammonia print of approved RCC</i>	<i>Nos.</i>	<i>3</i>
4	<i>Supply of Ammonia print of approved FPD</i>	<i>Nos.</i>	<i>3</i>
5	<i>Supply of of Ammonia print of approved cable route plan(station section)</i>	<i>Nos.</i>	<i>3</i>
6	<i>Supply of Ammonia print of approved cable route plan(Block section)</i>	<i>Nos.</i>	<i>3</i>
7	<i>Supply of Ammonia print of approved cable Distribution plan</i>	<i>Nos.</i>	<i>3</i>
8	<i>Supply of Ammonia print of approved Track bonding plan</i>	<i>Nos.</i>	<i>3</i>
9	<i>Supply of Ammonia print of approved circuit diagrams consisting of the items as mentioned below</i>	<i>Nos.</i>	<i>3</i>
	<i>(a)wiring diagrams</i>	<i>Nos.</i>	<i>3</i>
	<i>(b)Relay disposition charts</i>		
	<i>©Contact Analysis and fuse particulars</i>		
	<i>(d)Panel termination chart</i>		
	<i>(e)CT rack particulars</i>		

10	Supply of Ammonia print of approved Miscellaneous diagrams consisting of the items as mentioned below	Nos.	3
	(a) Floor plan of relay room, Battery room, Power equipment room, Data Logger room etc.		
	(b) Power supply diagrams along with power supply calculation		
	© Earthing diagram		
11	Supply of Ammonia print of approved Location box drawings (including contact analysis, Fuse particulars etc.)	Per Station	3
12	Supply of Ammonia print of approved Goomty drawings (including relay Disposition chart, Contact Analysis, fuse particulars, CT rack particulars and floor plan etc.)	Per Station	3

D. Supply of completion diagram (8 sets)

1	Supply of eight sets of Ammonia print of approved completion SIP	Per Station	1
2	Supply of eight sets of Ammonia print of approved completion SWRD	Per Station	1
3	Supply of eight sets of Ammonia print of approved completion RCC	Per Station	1
4	Supply of eight sets of Ammonia print of approved completion FPD	Per Station	1
5	Supply of eight sets of Ammonia print of approved completion cable route plan (station section)	Per Station	1
6	Supply of eight sets of Ammonia print of approved completion cable route plan (Block section)	Per Station	1
7	Supply of eight sets of Ammonia print of approved completion cable Distribution plan	Per Station	1
8	Supply of eight sets of Ammonia print of approved completion Track bonding plan	Per Station	1
9	Supply of eight sets of Ammonia print of approved completion circuit diagrams consisting of the items as mentioned below	Per Station	1
	(a) wiring diagrams	Per Station	1
	(b) Relay disposition charts		
	© Contact Analysis and fuse particulars		
	(d) Panel termination chart		
	(e) CT rack particulars		
10	Supply of eight sets of Ammonia print of approved completion Miscellaneous diagrams consisting of the items as mentioned below	Per Station	1
	(a) Floor plan of relay room, Battery room, Power equipment room, Data Logger room etc.		
	(b) Power supply diagrams along with power supply calculation		

	© <i>Earthing diagram</i>		
11	Supply of eight sets of Ammonia print of approved completion Location box drawings (including contact analysis, Fuse particulars etc.)	<i>Per Station</i>	1
12	Supply of eight sets of Ammonia print of approved completion Goomty drawings (<i>including relay Disposition chart, Contact Analysis, fuse particulars, CT rack particulars and floor plan etc.</i>)	<i>Per Station</i>	1

CHAPTER-09

EAST COAST RAILWAY PROJECT ORGANISATION

SCOPE OF WORK IN BRIEF

CHAPTER-09**EAST COAST RAILWAY PROJECT ORGANISATION****SCOPE OF WORK IN BRIEF**

NAME OF THE WORK: "Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapur Road stations in WALTAIR division of East Coast Railway".

SCOPE OF the WORK: The Scope of the above work constitutes the following:

2	The contract is mainly for " Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapur Road stations in WALTAIR division of East Coast Railway ". However, the Railway reserves the right to operate the same for the entire jurisdiction of Dy.CSTE/Proj/WAT in case of emergency/urgency. The contractor shall have no claim in this regard.
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EAST COAST RAILWAY PROJECT ORGANISATION

SUMMARY OF WORKS IN TENDER SCHEDULE
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CHAPTER-10

EAST COAST RAILWAY PROJECT ORGANISATION

SUMMARY OF WORKS IN TENDER SCHEDULE

RATE SHEET

TENDERNOTICENO: S&T/PROJ/WAT/OT/08/2009 dt: 14.09.2009

NAME OF THE WORK:- "Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapur Road stations in WALTAIR division of East Coast Railway".

Sl. No.	Name of the Schedule	Basic Value	Quoted Tender rates (Percentage above / Below the departmental value for the schedule)	
			In figures	In words
(1)	(2)	(3)	(4)	(5)
1	Schedule -A	1,63,41,987/-	_ % Above/below	_____ % Above/below
2	Schedule -B	1,40,73,988/-	_ % Above/below	_____ % Above/below
3	Schedule -C	3,29,282/-	_ % Above/below	_____ % Above/below
4	Schedule -D	60,000/-	_ % Above/below	_____ % Above/below
	Total	3,08,05,257/-		

NOTE TO TENDERER

1. The Tenderer(s) should quote only single percentage above/below/at par against each schedule in the RATE SHEET only. (Chapter-17)
2. In case the rate above/ below is not mentioned clearly, the quoted rate shall be treated as above rates.
3. The Tenderer(s) should not quote any percentage/rate in the annexed schedule, and if quoted, the tender stands summarily rejected.
4. Conditional tender stands summarily rejected.
5. The contract period of the of work is **9 (Nine) months** from the date of issue of Acceptance letter.
6. **PVC Clause is not applicable to this tender.**
7. The rates quoted by the tenderer(s) & accepted by Railway Administration shall hold good till the completion of work and no additional individual claims will be admissible on account fluctuation in market rates, increase in excess/any other levies etc.

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CHAPTER-11

SIGNATURE OF TENDERER/OFFEROR WITH SEAL

DY.CSTE/PROJ/WAT

EAST COAST RAILWAY PROJECT ORGANISATION

**DETAILS OF WORKS IN TENDER SCHEDULES
(Schedule A, B, C & D)**

CHAPTER-11

EAST COAST RAILWAY PROJECT ORGANISATION

NAME OF WORK:- “Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapuram Road stations in WALTAIR division of East Coast Railway”.

SCHEDULE OF WORK [TENDER SCHEDULE]

RATES ARE INCLUSIVE OF:

1. All taxes, E.D., Customes duty, Octroi, and State Entry taxes and any other taxes.
2. Supply of sundry materials like ferrules, eyelets (make: Dowell's), busbars, bunching materials, solders, insulating tapes, sleeves, M.S flat, M.S angle, nuts & bolts, washers, screws, sand, stone chips, grease, lubricating oil, paints, jute, waste cotton, lead wool etc. and any other petty consumables.
3. Supply of cement except where otherwise stated specifically.
4. Painting & lettering works as per Railway Standard and guidelines
5. Transportation of materials from the Railway Stores at VSKP to work site, except where otherwise indicated.
6. Supply of all types of wires, sealed wires, co-axial cables, switches, cable connectors and wiring materials as required and as advised by the Railway. All materials supplied with execution, Wires, cables, other wiring materials like terminals, fuses, bus bars, Tag Blocks etc. and all types of Insulation materials wherever required shall be procured from RDSO approved sources (wherever applicable). Proof to this effect and test report shall be submitted if so desired by the Representative of Dy. CSTE/Project/VSKP. Arrangements shall be made by the contractor for inspection if so desired by rep. of Dy. CSTE/Project/VSKP.
Handling/Shifting/re-arranging of Railway ballast wherever required.

SCHEDULE A:-Execution of Works

SL. NO.	DESCRIPTION OF WORK	UNIT	QTY.	Rate	Amount
1(c)	Excavation of trenches including clearing of roots of trees etc. in rocky area up to a depth to be indicated by Railway Engineer at site as per the site condition	MTR	2300	79	181700
1(a)	Excavation of trenches of depth and width detailed below including clearing of roots and trees etc. for all types of soil. This includes concreting and plastering as per the instructions of site Engineer and complete back filling by digging earth from a lead of 30 mtr. In case 0.8 meter depth or higher is achieved no concreting, plastering shall be required. All materials required for the above works shall be supplied by the contractor. No. 2 of 1988 issued by CST/SE/RY for following depth and width. Seventy nine only]				
1(d)	Depth 1.2 M and width 0.3 M Fixing of G.I. Pipes/G.I. Trough on steel girder [Rs. Thirty three thousand two hundred seventy six only] site	MTR	120.0	33696	332920
(ii)	Depth 1.0 M and width 0.3 M [Rs. Twenty seven thousand seven hundred and thirty one only] site	KM	12.0	27731	332772
(iii)	Depth 0.8 M and width 0.3 M [Rs. Twenty two thousand five hundred and fifty eight only] site	KM	9.0	22185	199665
1(b)	Excavation shall be done in all rocky area and clearing of roots of trees etc. up to a depth of 0.3 M and width of 0.3 M at level crossing /pucca road /level crossing gate/ platform/ station circulating area or any other place as advised only] site Engineer including transport and laying of DWG/RCC/GI pipe/Steel/GI pipes with wire with required shall be inspected by representative of tenderer. [1] Perforation of G.I. Pipe as required shall be done by the contractor by drilling in zig-zag manner. DWG/RCC/GI pipes shall be supplied by the Railway. DWG pipes wherever required shall be supplied in 6Mtr. length and shall be cut to size as per requirement. All other materials including cement are to be supplied by the contractor. [Rs. One hundred four only] be done by Contractor at both end of bridges.				
	transport and laying of DWG/RCC/GI pipe/Steel/GI pipes with wire with required shall be inspected by representative of tenderer. [1] Perforation of G.I. Pipe as required shall be done by the contractor by drilling in zig-zag manner. DWG/RCC/GI pipes shall be supplied by the Railway. DWG pipes wherever required shall be supplied in 6Mtr. length and shall be cut to size as per requirement. All other materials including cement are to be supplied by the contractor. [Rs. One hundred four only] be done by Contractor at both end of bridges.	MTR	2000	104	208000
1(e)	Cutting the masonry wall of the buildings at a depth of 0.5 meter to 1.0 meter at places to be indicated by Site Engineer for entering the cables inside the buildings. Tenderer will supply GI pipe 150 mm dia. To specification No: IS"4894/1987 or latest, Medium gauge, make TATA/Jindal, of required length and other required materials such as clamps, screws etc. and fix the GI pipe on Wall/Floor for leading the cables inside. [Rs. One thousand Nine hundred four only]	No.	12	1904	22848
1(f)	Fixing of G.I. Pipes of different sizes on RCC bridges, culverts, drains, trenches in hard rock area up to a depth of 0.3 to 0.6 Mtrs or at places as per the instruction of the Site Engineer and concreting [1:3:6] up to a height of 100 mm above the pipe. G.I. pipe with socket shall be supplied by Railway. All other materials required for the works shall be supplied by the contractor.	Mtrs	600	213	127800
	Note:[1] The G.I. Pipe shall be suitably clamped by the contractor as advised by the Site Engineer. Clamps shall be supplied by the Contractor.[2] The work includes excavation of trench in hard rock area up to a depth of 0.3 to 0.6 Mtrs. and back filling and ramming after completion of work wherever required [3] In case of concrete bridges clearing of ballast for laying pipe and re-arranging the railway ballast after completion of work shall be done by the contractor.				

	[Rs. Two hundred Thirteen only]				
2(a)	Laying of underground S&T cables & power cables of all size in excavated trench as mentioned vide item 1(a) to 1(e) including transportation of empty cable drums and leftover cables from site to the store at Visakhapatnam. This also includes joint meggering with Railway representative at site and recording of cable insulation resistance in a prescribed register before laying and after cable termination.	KM	190	7614	1446660
	NOTE: The cables are to be carefully handled during loading, un-loading and transportation to work site. If cable is found low insulation after laying and termination or any damage found in the cable after final testing in view of mishandling etc. the cables shall be repaired by the Tenderer at his own cost.				
	[Rs. Seven thousand six hundred fourteen only]				
2[b]	Supply and positioning of second class full bricks lengthwise inside the trenches for separation of signalling and power cable vide item no. 1(a). At the rate of 4 (four) bricks per meter.	Nos.	24000	2	48000
	[Rs. Two only]				
2[c]	Supply, melting and pouring of bitumen compound to Specification No. IS-7084/73 Clause-IV in GI Pipes/GI Troughs, chase in rocky beds etc. @ 3.5 KG per meter after cables are laid. All other materials required for the work shall be supplied by the contractor.	KG	1000	64	64000
	[Rs. Sixty four only]				
2[d]	Transportation of HDPE pipe, laying, leveling and jointing of the same in excavated trenches. This work also includes jointing of HDPE pipes using couplers and sealing the section ends with end caps as per specification and technical instructions as and where applicable. HDPE pipe, couplers for HDPE pipe and end caps for HDPE pipe will be supplied by Railway. All other materials including 4mm dia Nylon rope of approved quality, if required for the purpose shall be arranged by the contractor at his own cost.	KM	0	4950	0
	[Rs. Four thousand nine hundred fifty only]				
2[e]	Transportation of Optical Fibre cable to site of work with care, pushing/pulling of the OFC. Cable should be laid by pulling through Nylon rope to be supplied and pre-inserted in the HDPE pipe by the Contractor before laying of the HDPE pipe or by means of Mechanised methods. The OFC cable shall be tested before transportation to the site from the stores.	KM	0	8036	0
	[Rs. Eight thousand Thirty six only]				
2[f]	Transportation, installation of optical fibre termination [Fibre Management system] box suitable for 19" rack and splicing of optical fibre cable [2X24 fibers] and testing Optical Fibre cable termination shall be done in the presence of Railway's representative. Only Termination box shall be supplied by the Railway, All other tools/test equipments and materials required shall be arranged by the contractor.	Nos	0	12672	0
	[Rs. Twelve thousand six hundred seventy two only]				

2[g]	Transportation, installation of optical fibre joint enclosure and splicing of Optical fibre cable [2X24 fibres] and testing. Optical fibre cable splicing shall be done in the presence of Railway's representative. Only joint closure shall be supplied by the Railway. All other tools/test equipments and materials required shall be arranged by the contractor.	Nos	0	12672	0
	[Rs. Twelve thousand six hundred seventy two only]				

2[h]	Excavation of pit, execution of jointing of Telecom cables by using Thermoshrink cable jointing kits for straight through derivation joints and covering of cable jointing kits with excavated soil and ramming. Jointing kits will be supplied by Railway. All other material for execution of works shall be supplied by the contractor.	Nos	8	812	6496
	Note: All materials required for the work shall be supplied by the contractor..				
	[Rs. Eight hundred Twelve only]				
3(a)	Excavation of pit, casting of foundation with plastering, as per Drg. No: CON/SK/T/12 for Colour light signal. Contractor shall supply all materials required for execution of the work.	Nos	58	4575	265350
	[Rs. Four thousand five hundred Seventy five only]				
3[b]	Transportation, erection, fittings, insertion of cables, termination, wiring and testing of Multi Aspect Colour Light Signal Units complete with all standard fittings, accessories, number plates, marker, etc including painting and lettering. MACLS Unit with all standard accessories and universal lock shall be supplied by Railway.	Nos	58	1096	63568
	The contractor shall supply all materials required for execution works including cement, number plates, markers, yellow luminous strip board, wire mesh, blanking stretcher, PVC flexible pipe, hylum strip [6mm thick], terminals and all sundry materials as required for the work. Note: Before completion of the work contracator shall prepare jointly with Railway Engineer at site and submit Signal Sighting report and Signal test report as per approved format of Railway.				
	[Rs. One thousand Ninety six only]				

3[c]	Transportation, casting of foundation, erection, fittings, insertion of cables, termination, wiring and testing of Position Light Shunt Signal complete with all standard fittings, accessories, number plates, marker, etc including painting and lettering. Position light shunt signal complete with all standard accessories and universal lock shall be supplied by Railway.	Nos .	14	1948	27272
	Contractor shall supply all other materials required for execution of work and including cement, number plates, yellow luminous strip board, wire mesh, blanking stretcher, PVC flexible pipe, hylum strip(6mm thick), terminals and all sundry materials as required for the work.				
	[Rs. One thousand nine hundred Forty eight only]				
3[d]	Transportation, erection, fittings, insertion of cables, termination, wiring and testing of Calling on Signals/dependent shunt signal/illuminated markers with bracket on MACLS post complete with all standard fittings, accessories, number plates, marker, etc including painting and lettering. Calling on signal unit, Calling on Signals/dependent shunt signal/illuminated markers with bracket on MACLS post shall be supplied by Railway.	Nos .	16	723	11568
	[Rs. Seven hundred twenty three only]				

3[e]	Transportation, erection, fittings, insertion of cables, termination, wiring and testing of Route Indicators with or without bracket on MACLS post complete with all standard fittings, accessories, etc including initial painting and lettering. Route Indicators complete with all standard accessories and universal lock shall be supplied by Railway and all other materials required for work shall be supplied by the contractor.	NOS	12	1299	15588
[Rs. One thousand two hundred Ninety nine only]					
3[f]	Fixing of LED type lamp unit with current regulator and health monitoring unit in MACLS unit /calling on signals/dependent shunt signal/illuminated markers/route indicators etc. This includes taking the cable inside the unit, fixing of current regulator etc., complete wiring, fitting of terminals, lenses, LED signal lamps, guarding of lenses by wire mesh and dismantling of existing lamps and fittings as required. The painting and lettering of existing markers and numbering plate to be done by enamel paint.				
All materials including PVC wires, wire mesh, blanking stretcher, PVC flexible pipe, hylum strip(6mm thick), terminals and all sundry materials are to be supplied by the contractor. Railway will supply LED Units.					
[i] RED/YELLOW/GREEN Main Signal LED aspect:					
[Rs. Nine hundred Ninety only]		Nos.	130	990	128700
[ii] Route Indicator/Shunt LED.					
[Rs. Seven hundred twenty three only]		Nos.	168	723	121464
[iii] Installation of Calling on LED.					
[Rs. Nine hundred Ninety only]		Nos.	7	990	6930
4	All works as per standard practice and directives of Railway for installation, adjustments, testing and commissioning of track circuit , making of Block Joints if required, and supply, preparation of track circuit history cards/register in prescribed format jointly with Rly. representative and handover all records to the railway. Railway will supply Track Charger, B -type choke, relays, Resistance, Track lead J.B. and block jointing materials (if required).				
Note: Contractor shall supply :-					
[1] Supply and fixing of flexible wire rope, 8 SWG bond wire, channel pins for fixing of track lead jumper wires, bond wires, jacketed wire rope, wire rope bonds etc. shall be done by the contractor. Flexible wire rope shall be suitably insulated or insulated wire rope shall be used with suitable lug for termination.					
[2] All materials for fixing of TLJB including 50mm X 50mm angles, PVC pipes with check nuts for insertion of cables etc.					
[3] Supply of insulation materials and execution of insulation of gauge tie plate, crossing tie plate, Engg/S&T stretcher bars, rod run etc. All other materials required shall be supplied by the contractor. Insulation materials shall be procured from approved sources.					
[4] Un-machined fish plates shall be supplied by the Railway, machining of the same shall be done by the contractor.					
[5] The contractor to hand over all the surplus materials such as channel pins, insulated flexible wires, etc.					

	[6] In case glued joints are provided by Engg. Deptt. instead of block joints, the cost of machining of fish plates @ Rs.150/- per straight track circuit and Rs.500/- per point zone track circuits will be deducted.				
	a] Straight portion	Nos .	83	2971	246593
	[Rs. Two thousand nine hundred Seventy one only]				
	b] Curved portion [Point zone]	Nos .	70	8109	567630
	[Rs. Eight thousand One hundred Nine only]				
5(a)	Installation of point machine on MS plate fixed on wooden/steel/ PSC sleepers complete with provision of antitheft arrangement, fixing of junction boxes complete with terminals, ground connections with smithy works including supply, rivetting and welding of angle cleats wherever necessary, termination of cables, adjustment for operation of point machine by crank handle as required. This also includes making arrangements for crank handle interlocking as per Railway directives. The contractor shall overhaul the point machines before installation.	Nos .	67	7957	533119
	Note:1) the work includes fixing of point machine with ground connections on point staging, preliminary adjustments and dismantling (if required). Supply and filling up of gear box oil in the point machine.				
	2)Point Operating Machine, Point Junction box with PBT [6-way] terminals and Ground connections will be supplied by Rly. All other materials including Insulation materials, materials required for crank handle interlocking, GI pipes for insertion of cables shall be supplied by the contractor. Insulation of ground connection, extension plate, switch extension as required shall be done by the contractor with his own materials. All sorts of cutting, revitting, welding shall be executed by the contractor. Insulation materials shall be procured from approved sources. MS flat 12 mm thick and MS plate 12 mm thick shall be supplied by the contractor as per requirement at site for modification of Engg stretcher bar as well as for fixing of point machine as required at site.				
	[Rs. Seven thousand nine hundred fifty seven only]				
5(b)	Wiring, testing and commissioning of electric point machine as per wiring diagram supplied by the Railway. This includes crimping of proper size eyelets on all the wires. Alphanumeric nomenclature shall be marked on connecting wires by using melagrip markers or similar. Wires should be properly bunched by using PVC wire eyelets, bunching tape etc. Bunching materials, eyelets etc. required for the above work shall be supplied by the contractor. Two Godrej make lock or similar of seven lever (Brass body) shall be supplied by the contractor for outside cover and antitheft arrangement for every point machine.	Nos .	67	4032	270144
	Note: [I] The contractor manufacture, supply and fixing of complete anti theft arrangement made of M.S.Flat. The design should be got approved by the Railway before use at site.				
	Note: [ii] Before completion of the work contractor shall prepare jointly with Rly. Engineer at site and submit point machine test report as per approved format of railway.				
	[Rs. Four thousand thirty two only]				

6(a)	Supply, transportation, erection, and grouting of Composite Relay Racks / Relay Racks / CT Racks as per Drg. No. SE/DRG/OL/SER/92, SH-1/2, 2/2, S&T/CON/BBS/SK/7A/88 (for Relay Racks) and SK/DRG/OL/SER/197 respectively, including fixing of racks, PBT terminals 1-way/6-Way/ Tag block ND Fuses, Bus Bars, Eyelets, Hylum strips of required thickness (6mm to 12 mm ISI mark) as per length required at site, condensers and resistances etc., wherever required as per directions of Site Engineer. Inspection of Composite Racks / Relay racks by representative of DY.CSTE/P/WAT. Tenderer shall supply all the materials such as PBT terminal 1-Way/6-Way, ND Fuses, Bus Bars, Eyelets, Hylum sheets, condensers and resistances etc, and any other materials required for the work at his own cost.	Nos	75	30546	2290950
	Note: 1) Inspection of Relay/CT/Composite Racks shall be done by the rep.of Dy CSTE/P/WAT before use.				
	2) Cables shall be terminated on 6-way PBT terminals preferably in horizontal rows.1-way PBT terminals shall be used if required in isolated cases. All cables shall be terminated by providing copper eyelet of required size.				
	3] Indoor cables, PBT terminals, Fuse bases, Fuse cartridges, Fuses are to be procured only from RDSO approved firms. The original bill/voucher indicating the batch No. of the product, quantity purchased, date of purchase, etc. are to be submitted by the contractor.				
	[Rs. Thirty thousand Five hundred forty six only]				
6(b)	Wiring and testing of complete Relay Rack, CT Rack, Composite Relay Rack as per wiring diagram for max number of plug in type relay & shelf type relays of different sizes or as directed by Railway Engineers at site. This includes rack to rack wiring through MS ladder fixed on the top of the relay rack, crimping eyelets in the terminals fitted in the cables termination rack, numbering by ferrules 2.5 sq.mm, bunching of wires by bunching Tape/Thread and buttons, painting and lettering as required. Wiring of the racks shall be done with PVC wire of size 16/0.2 mm and 3/0.75 mm. Tenderer shall supply all wires & wiring materials purchased from RDSO approved sources.	Nos	75	50358	3776850
	Note: 1) Only relay and relay bases will be supplied by the Railway. Tenderer has to supply all other materials for the above work and make arrangement for transportation of materials supplied by Rly. at his own cost.				
	2) Only brass screws shall be used for fixing of relay bases.				
	3) All types of Wires and wiring materials, eyelets of sizes (make :Dowell's), ferrules (2.5 sqmm), resin core solder, insulating tape, bunching belt & button etc. are to be supplied by the tenderer. Wires will be procured from RDSO Part-I approved sources only.				
	4) Hylum board (6mm thick), condensers, resistance, Diodes etc. and all other components will be supplied by the contractor as per requirement at site.				
	[Rs. Fifty thousand three hundred fifty eight only]				

6[c]	<p>Wiring and testing of Relay rack/ C.T rack/ Composite rack[for mid-section L.C.Gate] as per approved wiring diagram and standard practice of the Railway. This includes termination of wires in terminals provided on Relay rack/ C.T rack/ Composite rack and relay bases by crimping copper eyelets and soldering of relay connectors at wire ends by providing PVC ferrules of size 2.5 sq mm, inter rack wiring through ladder, bunching of wires with bunching tape and button. This also includes complete testing (point to point continuity, wire counting, simulation) of wiring as per satisfaction of the Engineer at site. Note Nos. 1 to 4 of item Nos. 6[b] above will apply to this item also.</p>	Nos	0	8908	0
	[Rs. Eight thousand nine hundred eight only]				
6[d]	<p>Supply and fixing of MS ladder with suitable clamps including masonry and smithy works at places as advised by the Railway representative at site. MS ladder shall be made of MS angle size 25mmx25mmx2mm and MS flat size 25mmx3mm. Width of the ladder shall be 250 mm. or higher as per instruction of site Engineer. MS flat to be provided at every 8" apart. All materials required for execution of the above work shall be supplied by the contractor. Inspection by representative of DY.CSTE [Proj] WAT before use.</p>	Mtr.	480	364	174720
	[Rs. Three hundred sixty four only]				
7	<p>Charging, installation and wiring of low maintenance secondary cells as per manufacturer's instruction and Railway directives. This includes supply of distilled water and sulphuric acid by the contractor at his own cost. Uncharged battery with connectors shall be supplied by the Railway. Materials including 3/0.29 PVC wires, battery connectors, brass bolts and nuts, PVC tape, eyelets, etc. and all other materials shall be supplied by the contractor.</p> <p>Note: (1) Before completion of the work contractor shall prepare jointly with Rly. Engineer at site and submit battery capacity test report as per approved format of railway and hand over all the relevant records to the Railway.</p> <p>(2) All the cells failing in Discharge Capacity test in Railway premises will be replaced by new ones, free of cost. Railway Engineer's decision shall be final.</p>				
	[a] 2 Volts / 80 AH capacity	Nos	480	226	108480
	[Rs. Two hundred twenty six only]				
8	<p>Installation, wiring and testing of Control Panel [Operation-Cum-Indication Console] as per Specn. No:SE/SK/CON/156/94; amendment-2, complete with termination of cable on MS Rack with 6mm thick Hylum strip including fabrication thereof, painting and lettering as required. Railway will supply only Control Panel. Tenderer shall supply MS Angle/Flat, Hylum Sheet, MS Clamps, Bolts and Nuts, PVC pipes, Screws, Sleeves, PVC Cables, PVC pipes, Brass terminals, Fuses, LEDs etc., that are required for the work at his own cost.</p>	Nos	3	12690	38070
	Note:- Panel shall be supplied by the Railway.				
	[Rs. Twelve thousand six hundred Ninety only]				

9	<p>Transportation, installation, wiring of Integrated Power Supply system including arrangement for charging of batteries. Railway will supply only the Integrated Power Supply system and batteries. Tenderer shall supply all wires and wiring materials required for the installation including DPDT switches of required Nos. of Anchor/Crompton/Havel's make 250V AC/63A capacity or as per requirement.</p> <p>Electric wiring & bringing AC input supply from Auto Changeover CLS Panel at station to IPS, all wiring/ducting from station masters' room to IPS Room, from IPS Room to Relay Room or to any other load to be done by the contractor.</p> <p>The cable for connecting IPS to Battery will be supplied by railway. All other Copper cable of required dia as per installation manual & other wiring materials to be used for power wiring will be supplied by the contractor at his own cost.</p>	Nos	3	30000	90000
	NOTE : As per RDSO guide lines, the testing ,commissioning and charging of batteries to be done by the IPS supplier.				
	[Rs. Thirty thousand only]				
10	<p>Transportation, installation/replacement/shifting, termination of cables, complete wiring, testing and commissioning of Block Instrument[Single/Double line/TLBI] including all accessories and sub systems, filter units, and telephones as per approved diagram and Railway directives. This also includes dismantling of existing block instrument and alterations of wiring of existing block circuit as required at adjacent stations. Only Block Instruments and standard accessories shall be supplied by the Railways. All other materials required for the work shall be supplied by the contractor.</p>	Nos.	7	4188	29316
	[Rs. Four thousand one hundred eighty eight only]				
11	<p>Supply , transportation, installation , fixing of equipments, wiring of Cup board for Block Instrument as per drawing supplied by the Railway. This includes fixing of terminals, fuses, LDs, switches, bus bar, indicators, termination of cables, etc. All materials required for the works are to be supplied by the contractor. The Block Cup Board frame shall be of sal wood make with table top made of 20 mm thick hylam board . Sides shall be covered by 12 mm thick weather proof plywood. Inspection by Rep. Of Dy.CSTE/Proj/WAT.</p>	EACH	4	6445	25780
	[Rs. Six thousand Four hundred forty five only]				

12	<p>Transportation, installation, wiring and testing of EKT on HYLUM board of thickness not less than 18mm. with suitable MS angle frame including termination of cables. This also includes supply of push button switch, 12 mm dia. LED with holder for indication, aluminium frame, PBT/ARA terminals 6way etc. and wiring / fixing materials wherever required to carry out the work.</p> <p>Note:- Approx. size of the board shall be 300X400 sq mm per EKT and will be decided by the number of EKTs required at one place. Suitable cable termination boxes made of same laminated board shall be made by the contractor at his own cost wherever required.</p> <p>[Rs. Seven hundred Ninety six only]</p>	Nos.	44	796	35024
13[a]	<p>Supply,Excavation of earth pit, placing and fixing of earth electrode with construction of cement enclosure to Drg. No. Con/SK/T/9 and Con/SK/T/9A and drawal G.I. Wire one 8 SWG or 2 Nos. of 6 SWG wires from earth electrode to place advised by site Engineer including fixing and soldering of heavy duty copper lugs. This includes supply and transportation of earth electrodes to Drg. no. CON/SK/8/3/84. Inspection by representative of Dy.CSTE/Proj/WAT. This includes painting and lettering of resistance value of each earth.</p>	Nos.	168	4584	770112
	<p>Note:1) Earth resistance shall not be more than 10 Ohms for individual earth electrode. Contractor shall measure resistance of each earth Jointly with Rly. representative at site and record the readings in earth resistance test register in prescribed format.</p>				
	<p>2) All materials required for the work including Charcoal, salt/salamoniac, 8 SWG wire , copper lugs, resin core solder, flux, GI nuts & bolts etc.and binded register (100 pages) shall be supplied by the contractor. The original bill from the purchaser for Earth Electrode to be submitted.</p> <p>[Rs. Four thousand five hundred eighty four only]</p>				
13[b]	<p>Supply, Transportation, installation, wiring, testing and commissioning of Maintenance Free Earth system for protection of Integrated Power supply System / conventional power supply system, Electronic equipments or other signaling safety equipments as per RDSO Spec. No.SPN/197/2008 , Drg. No.-SDO/RDSO/E&B/001 & 002, DT.19.9.08 or latest amendment if any. It should also follow Section -H</p> <p>[Rs. Nineteen thousand eight hundred nineteen only]</p>	Nos.	16	19819	317104
14[a]	<p>Supply, transportation, foundation, erection, painting and lettering of SLB/BSLB, Warning boards of standard size, etc. with 6" (minimum) G.I channel iron support of appropriate length as per G&SR, SEM and IP. This includes excavation of pit as per approved drawing of the Railway for casting of base foundation (the ratio 1:3:6). All materials required for the above work shall be supplied by the contractor. Note: SLB/BSLB shall be fitted with ladder and lamp as per standard practice. Inspection of SLB, BSLB, Warning boards by Representative of Dy. CSTE/P/VSKP.</p> <p>[Rs. Four thousand eight hundred Fifty six only]</p>	Nos.	14	4856	67984

14[b]	Supply, transportation, foundation, erection, painting and lettering of Legend boards, Stop board etc. with 4" (minimum) G.I channel iron support of appropriate length as per G&SR, SEM and IP. This includes excavation of pit as per approved drawing of the Railway for casting of base foundation (the ratio 1:3:6). All materials required for the above work shall be supplied by the contractor. Note: Approximate size of Legend Boards shall be 24" X 18" X 1/8". inspection of legend boards, stop boards etc. by Representative of Dy. CSTE/P/VSKP.	Nos.	32	1075	34400
	[Rs. One thousand Seventy five only]				
15	Cleansing, Final Painting , Varnishing, Numbering, lettering and Graphiting of all outdoor and indoor signalling equipments over and above the initial painting as per instruction of Railway representative at site. This includes supply of paints and painting materials by the contractor.	LS	3	13198	39594
	[Rs. Thirteen thousand One hundred ninety eight only]				
16	Excavation of earth and casting of foundation for steel apparatus case , plastering, surrounding earth work and masonry work as required at site. This includes transportation of steel apparatus case to site and erection of the same on foundation. This also includes supply and fixing of 6 mm thick hylum board for fixing of ARA terminals, fuses etc.as per requirement at site and Railway directives, placing of batteries, chargers, relays etc.,termination of cables, wiring, provision of antitilting arrangement, earthing of cables, belting arrangement for antitheft with minimum 6 mm thick MS flat and filling cable pit with sand, painting and lettering. Apparatus case with 'E' type lock will be supplied by the Railway. All other materials required for the work shall be supplied by the tenderer.				
	1) Materials like PBT base ARA terminals, PBT fuse bases, wiring materials, ND fuses and all other materials required for the above work shall be supplied by the contractor.				
	2) Modification of inside arrangement of Apparatus cases if required for fixing of relays/transformers/MECRs etc.shall be done by the contractor. Extra shelf , if any, shall be deposited to the Rly stores by the contractor.				
	3] All cable conductors shall be terminated by providing copper eyelet of suitable size.				
	4] Indoor cables/wires,ARA terminals, Fuses, fuse bases, etc. are to be procured only from RDSO approved firms. The original bill/voucher indicating the batch No. of the product, quantity purchased, date of purchase, etc are to be submitted by the contractor.				
(a)	Apparatus case large as per Drg. No. CON/SK/1/1/86 and SA-20330 (Adv), Specn. IRS:S-10/78	Nos.	130	6085	791050
	[Rs. Six thousand eighty five only]				
(b)	Apparatus case half size as per Drg. No. CON/SK/1/1/86 and SA-20325 (Adv), Specn. IRS:S-10/78	Nos.	35	3042	106470
	[Rs. Three thousand forty two only]				

17	<p>Transportation, installation, wiring, testing and commissioning of Single Line Block Proving Digital Axle counter. Digital Axle counter with standard accessories shall be supplied by the Railway. The block should fixed in the table as instructed by Railway representative and all materials required for the above work shall be supplied by the tenderer.</p> <p>Note: i) Installation, wiring, testing and commissioning shall be carried out by the authorized representative of the original manufacturer of the system.</p> <p>ii) Training of Railway personnel at site and/or in manufacturing premises of the manufacturer for system design, operation and maintenance details of Digital Axle Counter system for a duration of 10 MAN-DAYS (minimum).</p> <p>[Rs. Twenty five thousand three hundred forty only]</p>	SET	9	25340	228060
18	<p>Transportation, Installation, wiring, testing and commissioning of Data Logger system to specification No. IRS: S-99/2006 or latest This includes provision of networking of Data loggers as advised by Railway for which necessary communication cable/OFC pairs will be provided by Railway. Data logger with standard accessories shall be supplied by the Railway. All other materials for wiring, testing and commissioning, etc. shall be supplied by the contractor.</p> <p>[Rs. Twenty thousand only]</p>	Nos.	0	20000	0
19	<p>Wiring and testing of overall circuits and commissioning of approved interlocking arrangement as per approved circuit diagram and Interlocking plan . The work includes simulation and final correspondence testing of field gears, supply of Misc. consumables i.e. Diesel oil, lubricating oil for 04 sets, distilled water etc. This also includes compliance of all left over works as per standard practice of Railway.</p> <p>[Rs. Sixty three thousand Four hundred fifty only]</p>	LS	3	63450	190350
20	<p>Fixing, wiring and commissioning of Electrical point detector (EPD) on long wooden/steel/PSC sleepers or as directed by site Engineer with rigid connection and connecting the slides of the detector to the point switches as per Drg. no. S&T/CON/SK/7 and standard practice of Railway. This includes dismantling/shifting of existing detector or any other signalling gear if required. EPD shall be supplied by the Railway. All other materials required for the above work shall be supplied by the contractor.</p> <p>[Rs. One thousand seven hundred eighty only]</p>	Nos.	12	1780	21360
21	<p>Installation, wiring, testing and commissioning of Diesel Generator set complete with all accessories as per manufacturers instruction and Railway guide lines. This also includes supply of Diesel, lubricating oil , G.I. pipe for exhaust, A.C. roofing for G.I. pipe etc. required for testing and commissioning. The D.G. set with all accessories shall be supplied by Railway. All other materials required for installation, including G.I. pipe for exhaust, A.C. Roofing for G.I. pipe, wiring, testing etc. shall be supplied by the contractor.</p> <p>[Rs. Four thousand thirty only]</p>	Nos.	6	4030	24180

22	Transportation, fixing of 20 pair Krone type CT Box including termination of Telecom cables of different sizes. [Rs. One hundred forty four only]	Nos.	12	144	1728
23	Design, preparation and supply of following "AS PLANNED" and "AS LAID" drawings and documents: original tracing of Gateway quality in AUTO CAD FORMAT. The tenderer has to provide proposed documents in original tracing to Railway for approval. After approval of the same final drawings are to be supplied. The work shall be executed only as per approved final drawing. After completion of the work, the completion drawings in addition to the original tracings with soft copies are to be supplied in CD.				
	Details of Design & drawings required to be supplied by tenderer is mentioned in Annexure-H				
	NOTE: Railway will supply: [1] Approved P-way Engineering Yard Plan. [2] Typical circuit diagram of one station of similar work on request by the contractor. [3] Standard guide lines issued by the Railway from time to time. The work is to be executed as per the Technical specification enclosed.				
	(a) For RAYAGADA	LS/ STN	1	404960	404960
	[Rs. Four lakhs four thousand nine hundred sixty only]				
	(b) For Ladda & Singapuram Road	LS/ STN	2	208450	416900
	[Rs. Two lakhs eight thousand four hundred fifty only]				
24	Transportation ,Installation, termination of power cables, wiring, testing and commissioning of Power supply system complete at Goomties/S&T Service buildings/locations. This includes supply and fixing of power distribution board with fittings consisting of (i) MCB-M9 single pole 240/415V rating 6A - 2 Nos. and 32A -2 Nos. per board, CAT no. of MCB - MSL0006-32 make - Havell's, (ii) Switch fuse unit Volt-240V, 16A, Double Pole type REW Cat. No:RDW2016. Make: Havel's, (iii) 10"x12"x2" MS box with 11"x13" hylum sheet of make-Crown. Inspection by representative of Dy.CSTE[P]VSKP. All sorts of wires and wiring materials shall be supplied by the contractor.	Nos.	12	6662	79944
	[Rs. Six thousand Six hundred sixty two only]				
25	Supply, transportation and Installation of up to 50 pair Aluminium CT Box and termination of cables inside C.T. Box in station building cabin/office/quarters as per instructions of site Engineer. All materials like C.T. Box shall be supplied by the contractor at his own cost. Inspection by representative of Dy.CSTE/P/VSKP. This also includes painting and lettering of description.	Nos.	5	1904	9520
	[Rs. One thousand Nine hundred four only]				
26	Excavation of earth for construction of masonry pit of bricks of size 2M X 1M X 1M (approximately) in all types of soil at stations, cabins, goomtys, location boxes or at any other places as instructed by Railway representative for keeping cable coils. This includes plastering, filling of the pit with sand after coiling of cables, ramming and covering with RCC slabs (75mm thick) with lifting hook. Size & depth of the pit may vary as per requirement at site.	CuM	24	1586	38064
	[Rs. One thousand five hundred eighty six only]				

27 [a]	Manufacture, transportation, supply and installation of 20 mm thick Hylam board boxes for terminating the Power Cable in goomtias, Relay room and at other places, approx size: 900mm X 300mm X 150mm - 18mm thickness with M.S. angle frame (L X W X D) as per approved drawing of Railway and as instructed by the Site Engineer. This includes supply and fixing of PBT base terminals, fuses etc. and termination of cables. All materials required for the work shall be supplied by the tenderer. Boxes shall be inspected by representative of Dy. CSTE/P/VSKP.	Nos.	0	712	0
	[Rs. Seven hundred twelve only]				
27 [b]	Manufacture, transportation, supply and installation of 20 mm thick Hylam board boxes for terminating the Power Cable in goomtias, Relay room and at other places, approx size: 450mm X 300mm X 150mm - 18mm thickness with M.S. angle frame (L X W X D) as per approved drawing of Railway and as instructed by the Site Engineer. This includes supply and fixing of PBT base terminals, fuses etc. and termination of cables. All materials required for the work shall be supplied by the tenderer. Boxes shall be inspected by representative of Dy. CSTE/P/VSKP.	Nos.	0	356	0
	[Rs. Three hundred fifty six only]				
28 [a]	Alterations in wiring at station realy room, in end cabins and inside SM's room, etc. as per approved circuit diagrams including termination of all cables and alterations in yard diagrams as per Railway directives. The work also includes supply and fixing of PBT ARA terminals, PBT fuses, bus bars in cabins and at station/ end cabins/ goomtias etc., making arrangements for fixing of relay/relay bases, painting and lettering as required and wiring of indicators at SM's room and cabins, painting and lettering as required. All materials required for the work shall be supplied by the contractor.	Job	3	7113	21339
	[Rs. Seven thousand one hundred thirteen only]				
28 [b]	Execution of alteration of wiring in existing Apparatus cases. This includes supply of all materials in connection with alteration in wiring. This includes insertion of cables, fixing of terminals, fuses, relays etc. alteration and matching with existing wiring in the apparatus cases, sand filling and masonry works as required. All materials required for the work shall be supplied by the contractor.	Nos.	6	1136	6816
	[Rs. One thousand one hundred thirty six only]				
29	Supply and installation of Electronic flasher(40-60 flashes per minute) supply with two Hooters. It can be operated on 230V AC / 110V AC/12AC with battery back up arrangement output wattage from a distance of 300 Mtrs. and flasher visibility from a distance of 300 Mtrs. Inspection by Rep. of Dy. CSTE/P/VSKP.	Job	4	6500	26000
	[Rs. Six thousand five hundred only]				

30	Preliminary adjustment of point such as marking of holes on tongue rails for 'D' bracket for point machine and re-fixing of FPL in its own position. [Rs.Five hundred Fifty eight only]	Nos	60	558	33480
31	Installation , Testing and commissioning of Electrically Operated Lifting Barrier complete in all respects. [Rs. Twenty five thousand three hundred seventy only]	Nos	4	25370	101480
32	Transportation and installation of Siding Point with Arc Lever including supply of HP Lock, Stretcher Bar for HP lock, Point rodding solid 1-1/4" dia, trestles, clamps, compensators, Arc lever, adjustable cranks, cement etc. Tenderer shall have to do double foundations for A/B foundations etc. as per site condition, if so advised by Railway. Inspection by representative of DY.CSTE/P/VSKP. [Rs. Sixty three thousand eighty eight only.]	Nos	7	63088	441616
33	Dismantling of all old signalling equipments such as L.C gates, mechanical rod run, cranks, compensator, FPL, lock bars, relay racks, old electrical equipments, EPDs, sighting boards, trestles and all indoor and outdoor gears.. This includes dismantling, stacking and accountal of all the materials including transportation of all released materials to the Railway store at VISAKHAPATNAM or as instructed by the Railway. [Rs. Six thousand three hundred forty five only]	station	3	6345	19035
34	Compilation, preparation, correction, updating, printing, binding and supply of station/Gate working rules with contractors stationary, tools, plants and materials as per the following description.				
	[a] Compilation and preparation of Draft SWR in English using MS word software in computer on the basis of WRD, RCC and Front plate diagram of Panel/VDU. [Rs. Eight only]	Page	200	8	1600
	[b] Preparation of Final SWR for station,. [Rs. Eight only]	Page	200	8	1600
	[c] Printing of approved SWR 26 copies. [Rs. Nil and paise fifty only]	Page	5200	0.5	2600
	[d] Colour Printing of Top covers with Station Photo for SWR, [Rs. Ten only]	Nos.	72	10	720
	[e] Hand Board binding of 26 copies of SWR and 26 copies of GWR [Rs. Twenty five only]	Each	72	25	1800
	[f] Supply of soft copy in CD. [Rs. Seventy only]	Stn.	6	70	420
	NOTE: The work shall be executed as per the technical specification attached.				
35[a]	Installation, testing and commissioning of Rail head continuity bond each set consist of [bond wire] All materials required for the work shall be supplied by the contractor.				
	[a] Galvanized bond, 20 Sq.mm X 145 mm - 1 No.	Set	0	444	0
	[b] Brazing Pin - 2 Nos.				
	[c] Ferrule - 2 Nos.				
	[Rs. Four hundred forty four only]				

35[b]	Installation of TLJ Bond L=4 m each set consist of	Set	0	653	0
	[a] Galvanized TLJ Bond 4m - 1 No.				
	[b] Brazing Pin - 1 Nos.				
	[c] Ferrule - 1 No.				
	[Rs. Six hundred fifty three only]				
36	Supply, installation, wiring, testing and commissioning of Earth Leakage Detector 4 Channel as per RDSO specification No: RDSO/SPN/256/2002. Inspection of Earth Leakage Detector by RDSO. NOTE: Installation and wiring shall be done as the directive of JE/SE/SSE in charge of the work. All materials required for the works are to be supplied by the contractor.	Nos.	0	41080	0
	[Rs. Forty one thousand eighty only]				
37	Execution of miscellaneous temporary arrangements for Pre-NI and NI period with contractor's materials, tools & plants, manpower including all lead, lift and transportation etc. as per the following description:				
	[a] Clearing of ground, Providing Temporary shelters of suitable size in the station yard at point zones for round the clock operation of points etc.by operating staff during Pre-NI and NI working (approximate duration seven days) at stations. The contractor shall construct temporary shelter with GI pipes and AC sheet/water proof tent material as roof and side walls sufficiently strong to withstand rainwater and stormy weather. Temporary shelters shall be erected at specified places as directed by JE/SE/SSE in charge of the work during Pre-NI & NI period.				
	NOTE: [i] Each temporary shelter shall be furnished with one writing table, six plastic chairs, emergency light and mosquito replant. All materials shall be arranged by the contractor at his own cost. [ii] The rate includes cost of dismantling of shelters after completion of NI working and commissioning of station. The released materials shall be property of the contractor. [iii] Guarding of the temporary shelters along with tables, chairs, etc. round the clock shall be the responsibility of the contractor. No payment shall be made by the railway towards theft or damage of the materials due to any reason whatsoever.	Nos.	0	7764	0
	[Rs. Seven thousand seven hundred sixty four only]				
	[b] Provision of hiring of Public Address system .	Per day	0	1508	0
	[Rs. One thousand five hundred eight only]				
38	Initial Survey for cable route along the Railway track to find out the tentative quantities of requirement of materials and preparation of proposed cable laying plan for S&T cables and local cables of the section clearly indicating the position of cable huts, position of cables on the bridges, culverts, ROB/RUB, place of track/road/drain crossings with off-sets at every 50[fifty] meters interval and at critical points where the cable route takes diversion or turning. The detailed plan with survey report to be submitted to the Railways in six sets in bindings for approval. All drawings shall be made in Auto CAD printed on A3 size paper. Note: The work of cable trenching shall be taken up only after approval of the detailed cable route plan.	KM	14	833	11662
	[Rs. Eight Hundred Thirty three only]				

39	Transportation, fixing and wiring of 30/24-way JB with MS angle size 2 X [1200mm X 50mmX50mm] at places to avoid jointing of cable or as directed by the Rly. Representative at site. This includes insertion of cables into JB through GI pipe of suitable size, fixing of PBT base ARA terminal, fuses, termination of cables and wiring. This also includes all sorts smithy works. ARA terminals shall be fixed on 6mm thick hylam board. JB will be supplied by Rly. G.I. Pipe and all other materials required for the work shall be supplied by the contractor.	No.s	70	620	43400
	[Rs. Six hundred twenty only].				
40	Transportation, Fixing and wiring of Distilled Water Plant including plumbing work for water supply line; supply, fixing and wiring of 63 Amps power supply board with DPDT switch, wiring by 7/ 0.29 wire from main/D.G. supply through PVC pipe and execution of strengthening, rearrangement, masonry, plumbing and all other works as specified JE/SE/SSE in charge of the work. Distilled water plant will be supplied by the Railway. Materials such as power supply board with 4 no. 15 Amp sockets, 4 no. 32 Amp main switch with indication [make: Anchor/Havells/L&T/Cona] , 63 Amps DPDT switch [make: Crompton/Havells/L&T], wire(7/0.29), PVC pipe, plumbing materials like GI pipe, bends, valves as required, brass tap for water supply, Misc. plumbing materials, cement and all other materials required for the above work shall be supplied by the contractor. DPDT Switch and Main switch shall be inspected by JE/SE/SSE in charge of the work.	No.s	3	14475	43425
	NOTE: [1] The work includes masonry works for construction of water outlet from the D. W. plant. [2] Switch and multi point socket assembly [High Ampere capacity shall be provided along with indication - make: Anchor/L&T /Cona. [3] All Electrical fittings shall confirm to IS specification.				
	[Rs. Fourteen thousand four hundred seventy five only]				
41	Welding of solid rods with Solid/Screw/Flush/Lug-eye joints, Insulated Rod Joints, FPL/HPL Streatcher Bars, point adjusting screws etc. or with 32mm point rod with suitable off set as required and as per standard practice to suit cranks/compensators/arc levers or any other mechanical S&T gears and connecting them as per standard practice. Point rod 32mm and Solid/screw/flush/lug/eye joints, point adjusting screws etc. shall be supplied by the Railway. All other materials for the above work shall be supplied by the contractor.	No.	180	103	18540
	[Rs. One hundred three only]				
42 [a]	Excavation of pit, casting of concrete foundation for A/B type foundations as per approved drawing of railway. The standard ratio of mixture i.e. cement, sand and 1" stone chips shall be 1:2:4 respectively. A/B type foundations only will be supplied by railway. The contractor shall arrange cement, sand, ballast, nuts & bolts and all other materials required for work.	Nos.	50	1263	63150
	[Rs. One Thousand two hundred sixty three only]				
[b]	Excavation of pit, casting of concrete foundation for A/B type double foundations as per approved drawing of railway. The standard ratio of mixture i.e. cement, sand and	Nos.	20	2693	53860

	1" stone chips shall be 1:2:4 respectively. A/B type foundations only will be supplied by railway. The contractor shall arrange cement, sand, ballast, nuts & bolts and all other materials required for work.				
	[Rs. Two thousand six hundred ninety three only]				
43	Fixing/Lifting of 2-Way/4-Way Trestles by making earth pits or on metallic bodies by drilling holes. This includes making earth pit for trestles, level the bottom surface placing of trestles in the pit at every 6' and grouting the trestles with excavated earth as per instruction of JE/SE/SSE in charge of the work, fixing standard roller guide, bottom rollers, top rollers, etc. and commissioning. All types of bolts and nuts 12mm X 40mm, split pins are to be supplied by the contractor. Railway will supply trestles and standard guide roller assembly only. All other materials required for the work shall be supplied by the contractor.				
	[a] 2-way/4-way assembly	Each	140	42	5880
	[Rs. Forty two only]				
	[b] 2-way/4-way double trestle assembly including fixing of double trestles vertically by making holes in the trestles and jointing by nuts and bolts.	Each	60	42	2520
	[Rs. Forty two only]				
44	[a] Fixing of all types of cranks, rodding compensators, wheels etc. on A/B type foundations, trestles or similar arrangements as directed by JE/SE/SSE in charge of the work. NOTE: Fixing of MS Plates/channels wherever required shall be done by the contractor with his own materials. Cranks, compensators, levers, wheels, plates/channels shall be supplied by the Railway. All other iveting required for the work shall be supplied by the contractor.	Nos.	25	52	1300
	[Rs. Fifty two only]				
	[b] Removal of twist, straightening and laying of point rodding , placing of point rodding on trestles and fixing of rod run by 1/2" X 2-1/2" nuts and bolts for operation of points, lock bars, siding points, positive boom locking etc. including adjustment and testing. Point rod solid only shall be supplied railway. All other materials required for the work shall be supplied by the contractor.	Nos.	105	37	3885
	[Rs. Thirty seven only]				
	[c] Disconnection of existing gears, installation of FPL / HPL / lock bars/Arc Lever with all attachments and accessories like stretcher bar, radial guide etc., including adjustment of point lock, fixing of lock plunger, radial guide etc., drilling of tongue rails for fixing stretcher bar, 'D'-bracket etc. including all sorts of cutting, drilling, iveting, smithy works, final adjustment and testing.	Nos.	9	1638	14742
	Note: Railway will supply FPL/HPL/Point lever/lock bars, Stretcher bar, point rodding, rodding joints, etc. as required for execution of the work. All other materials required for the work shall be supplied by the Contractor.				
	[Rs. One thousand six hundred thirty eight only]				
45	Surface preparation & application of anticorrosive coating by ENECON or similar make on location boxes etc.	Sq. ft.	8800	7	61600
	[Rs. Seven only]				
	TOTAL SCHEDULE 'A'				16341987

EAST COAST RAILWAY PROJECT ORGANISATION

NAME OF the WORK :- “Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapuram Road stations in WALTAIR division of East Coast Railway”.

Schedule- B- Supply of Signaling Material

SCHEDULE 'B'					
S.N.	DESCRIPTION OF WORK	UNIT	Total	Rate	Amount
1(a)	Signal colour light multi unit as per specification No: IRS: S-26/64 with latest amendment long range working on 110 V- AC 50 Hz complete without lamp, lens and transformers 2-Aspect suitable for 140 mm dia. post with expanded metal netting as per Drg.No:SA-23005 M[ADV] and SA-23023/A/M [ADV] with latest alteration for metal netting with lamp holder to suit triple pole lamp. Inspection by RITES.	Nos.	38	6379	242402
	[Rs. Six thousand three hundred seventy nine only]				
1[b]	Signal colour light multi unit as per specification No: IRS: S-26/64 with latest amendment long range working on 110 V- AC 50 Hz complete without lamp, lens and transformers 3-Aspect suitable for 140 mm dia. post with expanded metal netting as per Drg.No:SA-23003 A/M[ADV] and SA-23023/A/M [ADV] with latest alteration for metal netting with lamp holder to suit triple pole lamp. Inspection by RITES.	Nos.	20	9546	190920
	[Rs. Nine thousand five hundred forty six only]				
1[c]	Calling on signal (colour light type) as per Drg. No. SA-24351(Adv) with bracket, U-clamp, C-marker, without lamps (Amended up to date). Inspection by RITES.	Nos.	9	5793	52137
	[Rs. Five thousand seven hundred ninety three only]				
1[d]	Shunt signal position light Independent post type with hoods, lenses, number plates, lamp holders, lamp with off set bracket 90 mm dia long to suite 140 mm dia post [outer], Drg: No: SA-23840 latest. Inspection by RITES.	Nos.	14	7009	98126
	[Rs. Seven thousand nine only]				
1[e]	Universal Locks with one key for every 10 locks. Inspection by representative of Dy. CSTE [Proj] VSKP. [NOTE: The tenderer may supply the locks as per the sample, which will be given to the tenderer along with LOA].	Nos.	100	83	8300
	[Rs. Eighty three only]				
2	Colour Light Signal post 140 mm dia. as per Specn. No. IRS:S-6/1981. Inspection by RITES.				
	(i) 5.4 Mts				
	[Rs. Four thousand seven hundred sixty three only]	Nos.	20	4763	95260
	(ii) 4.6 Mts				
	[Rs. Four thousand Fifty eight only]	Nos.	30	4058	121740
	[iii] 3.6 Mtrs.				
	[Rs. Three thousand six hundred eighty nine only]	Nos.	8	3689	29512

3	Signal base 140 mm dia. to Drg. No. S-2011 and SA 116A/M. Spec. no. IRS:S-56/81. Inspection by RITES.	Nos.	58	1721	99818	
	[Rs. One thousand seven hundred twenty one only]					
4	Ladder (for Colour Light Signal) as per Drg. No. SA-23156 (Adv) Alt-1 & Spec. no. IRS:S-10 with latest ammendment. Inspection by RITES.	Nos.	20	3111	62220	
	[i] 5.5 Mts. [Rs. Three thousand one hundred eleven only]					
	[ii] 4.5 Mts. [Rs. Two thousand eight hundred eighteen only]	Nos.	30	2818	84540	
	[iii] 3.5 Mts. [Rs. Two thousand five hundred twenty six only]	Nos.	8	2526	20208	
	5	Route indicator junction direction 5 lamps type as per Specn. No: IRS:S:66:84 with latest ammendment with arm complete with Lenses, 6-way LH/RH as per Drg. No:SA-23402[ADV] Alt-2 or latest. Inspection by RITES.	Nos.	12	14282	171384
		[Rs. Fourteen thousand two hundred eighty two only]				
6	Track feed battery charger input 110VAC, 50 +/-2 Hz with boost and trickle charging for 1 to 4 cells as per spec. No: IRS:S-89/93 (as ammended up to date). Inspection by RDSO.	Nos.	170	1385	235450	
	[Rs. One thousand three hundred eighty five only]					
7	Track feed resistance 30 Ohms [2,4,8,16 Ohms] as per Drg, No. SA-20161-66/M[with latest ammendment] with PBT base. Inspection by RDSO.	Nos.	170	171	29070	
	[Rs. One hundred seventy one only]					
8	Track lead junction box made of glass fiber reinforced plastic Drg. No. SI.-10272,Alt-C, specification No.IRS:S-1078. Inspection by RITES	Nos.	510	591	301410	
	[Rs. Five hundred ninty one only]					
9	Lead acid cell capacity 2V - 80 AH as per Specn. No. IRS:S-88/2004 with nuts & bolts, inter cell connector, ceramic vent plug, battery float etc. Inspection by RDSO.	Nos.	500	2021	1010500	
	[Rs. Two thousand twenty one only]					
10	Choke Coil Type-B, impendence 120 ohms and resistance 3 ohms DC [for feed end and Relay end], as per specification No:IRS:S:65:83. Inspection by RDSO.	Nos.	340	1776	603840	
	[Rs. One thousand seven hundred seventy six only]					

11	Relay AC Immune, plug-in type, style ' QTA2 ', DC Neutral track 9 Ohm, 2F.1B contacts, Front and back contacts metal to carbon complete with plug board, retaining clip and connectors conforming to BRS: 939A, BRS: 966 (appendix F2), IRS: S-34 and IRS:S-23 (as applicable).The interlocking code for this unit shall be FGHKX. Inspection by RDSO. [Rs. Two thousand five hundred ninety four only]	NOS.	0	2594	0
12	Relay AC Immune, plug-in type, style ' QSPA1 ', DC Neutral line,slow to pick up, 24V , 8F.4B contacts, Front and back contacts metal to carbon, complete with plug board, retaining clip and connectors conforming to BRS:933A, IRS: S-60, IRS: S-34, IRS: S-23 (as applicable). The interlocking code for this unit shall be ABDEJ. Inspection by RDSO. [Rs. Three thousand Seven hundred seventy two only]	NOS.	0	3772	0
13	Relay plug in type, Style AC-LED: All aspects , AC lamp proving Relay unit with in-built current transformer type, slow release neutral line relay, 4F.4B contacts, front and back contacts metal to carbon, shall be suitable for working in series with the 110V AC, LED signal lamp rated at 15 W confirming to RDSO Spec. No: STS/E/Relays/AC Lit LED Signal/09-2002, BRS:941A, IRS:S:34 & IRS:S:23 [as applicable. The interlocking code for this unit shall be ABDHK . Inspection of RDSO. [Rs. Three thousand Nine hundred ninety five only]	NOS.	0	3995	0
14	Relay AC immune, plug-in-type, Style ' QBCA1 ', DC biased Point Contactor, 24V , 2F(HD) . 4B contacts, Front contact (Heavy duty) metal to carbon and back contacts metal to carbon, complete with plug board, retaining clip and connectors conforming to BRS-943, IRS:S: 34 & IRS:S:23 (as applicable). The interlocking code for this unit shall be BCEJK. Inspection by RDSO. [Rs. Five thousand forty only]	Nos.	0	5040	0
15	Fail safe electronic time device mounted on Q-Series relay base and covered with fixed timing of 120 seconds, conforming to IRS:S-61/2000, IRS:S-34 & IRS:S-23 (as applicable). The interlocking code for this unit shall be AFGKY. Inspection by RDSO. [Rs. One thousand eight hundred sixty six only]	NOS.	112	1866	208992
16	Relay, A.C. Immune, plug-in type, Style, QNA1 , DC Neutral line, 24V, 8F/8B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:931A, IRS:S:60, IRS:S:34 & IRS:S:23[as applicable]. The Interlocking code for this unit shall be ABDGH. Inspection by RDSO. [Rs. Two thousand seven hundred only]	Nos.	0	2700	0
17	Relay, A.C. Immune, plug-in type, Style, QNA1, DC Neutral line, 24V, 12F/4B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:931A, IRS:S:60, IRS:S:34 & IRS:S:23[as applicable]. The Interlocking code for this unit shall be ABDFH. Inspection by RDSO. [Rs. Two thousand seven hundred only]	Nos.	0	2700	0

18	Relay , Non-AC immune, plug-in type, Style ' QN1 ' , DC neutral line, 24V, 12F/4B contacts, front and back contacts metal to carbon with plug board, retaining clip and connectors conforming to BRS:930, IRS:S:34 & IRS:S:23 [as applicable]. The interlocking code for this unit shall be ABCDE. Inspection by RDSO.	Nos.	0	2603	0
	[Rs. Two thousand six hundred three only]				
19	Relay , Non-AC immune, plug-in type, Style ' QN1 ' , DC neutral line, 24V, 8F/8B contacts, front and back contacts metal to carbon with plug board, retaining clip and connectors conforming to BRS:930, IRS:S:34 & IRS:S:23 [as applicable]. The interlocking code for this unit shall be ABCDF. Inspection by RDSO.	Nos.	0	2603	0
	[Rs. Two thousand six hundred three only]				
20	Relay, plug-in type, Style 'ROUTE' Aspect AC lamp proving relay unit, slow release, neutral line relay, metal to metal, 3F/3B contacts mounted in a mini relay group housing, complete with plug board and connectors shall be suitable for working in series with lighting circuit of the junction type route indicator [5 lamps, 110V/25Watt, double pole, connected in parallel] conforming to specification No:IRS:S:46, IRS:S:34, IRS:S:23 and BRS:942A, Style QUICK. The Interlocking code for this unit shall be CFKLY. Inspection by RDSO.	Nos.	0	3484	0
	[Rs. Three thousand four hundred eighty four only]				
21	Relay, plug-in type, Style 'SHUNT' Aspect AC lamp proving relay unit Style QECX-53, slow release, neutral line relay, metal to metal, 3F/3B contacts mounted in a mini relay group housing, complete with plug board and connectors shall be suitable for working in series with lighting circuit of the SHUNT SIGNAL [2 lamps, 110V/25Watt, double pole, connected in parallel or series] conforming to specification No:IRS:S:46, IRS:S:34, IRS:S:23 and BRS:942, Style QUICK. The Interlocking code for this unit shall be CFGJY. Inspection by RDSO.				
	[A] OFF	Nos.	0	3484	0
	[Rs. Three thousand four hundred eighty four only]				
	[B] ON	Nos.	0	3484	0
	[Rs. Three thousand four hundred eighty four only]				
22	Relay Flash Electronics solid state , input 24 V DC, Output 24V DC at 40 to 60 flashes per minute, contact rating 5 Amps DC suitable for use to control Railway Signalling circuits in fail safe manner as per RDSO specification No.RDSO/SPN/173/2002 Amendment-1. Inspection by RDSO.	NOS.	20	1639	32780
	[Rs. One thousand six hundred thirty nine only]				
23	Universal Electric point operating machine high thrust non trailable to operate on 110V DC complete with lock, detector, Point Junction Box 24 way with 4 No. of 6-way ARA Terminals along with telescopic pipe and slides for lock and detector - rotary locking Universal type as per specification No: IRS/S/24/2002 with latest amendment and IRS:S:-37/82 Amendment No.3;Drg. No: RDSO/S: 10910 [for motor] along with standard tool kit set for every 4 point machines. Inspection by RDSO. NOTE: Tool kit shall be supplied in a suitable tool box.	Nos.	70	42275	2959250
	Rs. Forty two thousand two hundred seventy five only]				

24	Ground connection set complete suitable for High thrust rotary locking type IRS Electric Point Machine as per RDSO Spc.No.S5-62 complete with insulating materials. Inspection by RITES. [Rs. Four thousand six hundred eighteen only]	SET	70	4618	323260
25	Control Panel (Operation cum indication console) Domino type as per RDSO Specn. No:SPN/186/2004 with update amendment. Control Panel including panel front & side tables as per Drg. No: SE/SK/CON/156/94 complete with termination of cables, painting and lettering as required. NOTE: Size of Panel will depend upon the number of Dominos required as per Front plate diagram. Ref. CSTE/GRC's Drg. No: SK/CON/156/94, SH-1/3, 2/3 & 3/3. Inspection by rep of Dy.CSTE/P/VSKP. [Rs. One lakh sixty three thousand nine hundred forty four only]	Nos.	3	163944	491832
26	Electric Key Transmitter with different key wards as per requirement. RDSO's Drg. No: SA-22601(Adv.) for rotary key transmitter for key and IRS:S-21/2001. Inspection by RDSO. [Rs. Four thousand nine hundred seventy only]	Nos	44	4970	218680
27	Tokenless Block Instrument , Single line handle type R.E. standard with inbuilt TX & RX and 12 Nos. of 'Q' Style Relays along with one spare TX & RX as per specification No: IRS:S:98/2001 with up date amendment. Inspection by RDSO. [Rs. Four lakhs sixty eight thousand only]	Pair	1	468000	468000
28	Key lock `E' type with key as per Drg. No: SA-3376/M (IRS) Alt-I for lock and for key Drg. No: S-3377/M (amended upto date) wards as per requirement and IRS:S30-64. Inspection by RITES. [Rs. Six hundred eleven only]	NOS.	180	611	109980
29	Foundation 'A' type as per Drg. No: IRS:S:3529m, Alt.-1 and IRS:S:10/78. Inspection by RITES. [Rs. Two thousand two hundred fifty seven only]	Nos.	50	2257	112850
30	Tool kit for ESM as per details enclosed Annexure '-A'. Inspection by representative of Dy.CSTE/P/VSKP. [Rs. Twenty two thousand seven hundred thirty four only]	NOS.	4	22734	90936
31	Insulation resistance tester 500V DC 500 Mega Ohms hand generator type metal body to Spec. no. IS:2992 make WACO. Inspection by representative of Dy.CSTE/P/VSKP. [Rs. Six thousand two hundred sixteen only]	NOS.	4	6216	24864
32	Insulation resistance tester 100V DC 500 Mega Ohms hand generator type metal body to Spec. no. IS:2992 make WACO. Inspection by representative of Dy.CSTE/P/VSKP. [Rs. Five thousand six hundred one only]	NOS.	4	5601	22404
33	Earth tester 0.01 to 9990 ohms. In 5 ranges, 4 terminal type Inspection by representative of Dy.CSTE/P/VSKP. [Rs. Nine thousand three hundred seventy eight only]	NOS.	4	9378	37512

34	RCC/Split RCC pipe inner dia 100 mm dia with collar in length of 2 Meter each as per specification No:IS:458/71, One two meter pipe with a collar shall be counted a Unit for the purpose of payment. The pipe shall be in two halves if directed so by Railway. Inspection of RITES. [Rs. Two hundred seventy seven only]	Nos.	400	277	110800
35	Double Walled corrugated pipe (ISI marked) conforming to Spec no. IS-14930, Part-II of length 6 meter 120 mm outer dia. 103.5 mm inner dia with one snap fit coupler, one bend and one 'T' coupler for under ground power/communication/signal cable protection. One Six meter pipe with collars shall be counted a unit for the purpose of payment. Inspection by RITES. [Rs. One thousand three hundred twenty eight only]	Nos.	120	1328	159360
36	Supply of Perforated G.I.pipe of 80 mm dia with socket. G.I. pipe shall be as per IS Specification for medium gauge and shall be perforated by drilling 7mm dia holes length wise in zig-zag manner staggered at a distance of 300 mm. Inspection by RITES. [Rs. Five hundred thirty eight only]	Mtr.	450	538	242100
37	Supply of perforated G.I.pipe of 50 mm dia with socket. G.I. pipe shall be as per IS Specification for medium gauge and shall be perforated by drilling 7mm dia holes length wise in zig-zag manner staggered at a distance of 300 mm. Inspection by RITES. [Rs. Three hundred thirty nine only]	Mtr.	150	339	50850
38	Office Chairs as per Model No: PCH 1007. Make: GODREJ. Inspection by representative of Dy.CSTE/P/VSKP. [Rs. Two thousand five hundred thirty four only]	Nos.	12	2534	30408
39	Executive chair revolving type , wheels for movement & lock facility, colour blue as per model No: PCH-1014 Make-GODREJ. Inspection by representative of Dy.CSTE/P/VSKP. [Rs. Five thousand five hundred fourteen only]	Nos.	6	5514	33084
40	Steel almirah Storewell plain size 1980mm X 915mm X 485mm with adjustable shelves 4 no. Make-GODREJ. Inspection by representative of Dy.CSTE/P/VSKP. [Rs. Thirteen thousand five hundred ninety eight only]	Nos.	6	13598	81588
41	Steel Table size: 1365mmX680mmX735mm as per Godrej make model no. T-102. Inspection by representative of Dy.CSTE/P/VSKP. [Rs. Ten thousand seven hundred eighty seven only]	Nos.	6	10787	64722
42	Apparatus case large as per Drg. No. CON/SK/1/1/86 and SA-20330 (Adv), Specn. IRS:S-10/78 with 'E' type lock, key & handle for each apparatus case. Inspection by Rep. of RITES. [Rs. Thirteen thousand five hundred sixty five only]	Nos	130	13565	1763450
43	Steel Apparatus case 'Half size' as per Drg.No. S&T/CON/VSKP/92/90 with 'E' type lock & Key of ward No. 32. Inspection by representative of RITES. [Rs. Eight thousand two hundred fifty five only]	Nos.	35	8255	288925

44	Thermoshrink jointing kit for jointing under ground quad cable as per RDSO Specn. No: IRS:TC:77/2006[Rev.1]. [Cable jointing kits shall be procured from RDSO Approved source]. Inspection by RDSO. [Rs. One thousand nine hundred thirteen only]	Nos.	12	1913	22956
45	Desk type magneto telephone as per specification No: IRS:TC:79/2000 with latest amendment. . Inspection by RITES. The material shall be procured from RDSO Approved source only . [Rs. Two thousand six hundred only]	Nos.	56	2600	145600
46	L.C.Gate with 10 mtr. long boom complete with all fittings, winch, 2-way ground lever frame, positive boom locking and all other accessories as per drg. No. SA-8836, SA-8843-46 & SA-8848-51, winch as per drg. No. SA-8132 A/M Alt.-2 and Boom locking as per S.E.Railway drg. no. SI-9661. Inspection by RITES. [Rs. One lakh three thousand five hundred fifty eight only]	Set.	0	103558	0
47	Electrical Lifting Barrier with hand generator as per IRS Specification No: IRS:S:41/70 with latest amendment. Inspection by the representative of Dy.CSTE[P]VSKP.				
47 [a]	Boom for Electrically operated Level Crossing gate of length 9.75 Mtrs. with reflective tape and pedestal. Inspection by representative of Dy. CSTE[P]VSKP [Rs. One lakh twenty thousand nine hundred seventy three only]	Nos.	8	120973	967784
47 [b]	Boom locking set for Electrically operated Level Crossing gate. [Rs. Twelve thousand ninety seven only]	Nos.	8	12097	96776
47 [c]	Control Panel for Electrically operated Level Crossing gate [Rs. Thirty three thousand eight hundred seventy two only]	Nos.	4	33872	135488
47 [d]	Hand Generator for Electrically operated Level Crossing gate [Rs. Thirty three thousand eight hundred seventy two only]	Nos.	8	33872	270976
47 [e]	Motor contactors for Electrically operated Level Crossing gate. [Rs. One thousand five hundred seventy three only]	Nos.	8	1573	12584
47 [f]	Circuit Controller 4-way for Electrically operated Level Crossing gate [Rs. Eight hundred seven only]	Nos.	24	807	19368
48	OFC distribution [Management system] box suitable for 19" rack complete with 24 fire FCPC/STPC couplers, 24 pigtails & suitable tray as per specification and drawing. Make 3M Model:8423 or similar [latest version]. Inspection by Representative of Dy.CSTE[P]VSKP. [Rs. Thirty two thousand four hundred forty eight only]	Nos.	0	32448	0

49	Supply of VF transformer 470:1120 [rack mountable] as per specification No: IRS:TC:22/76 or latest amendment. Inspection by RDSO.	Nos.	30	960	28800
	[Rs. Nine hundred sixty only]				
50	Data-Logger complete to specification No:IRS:S:99/2006 with updated amendment with configuration of 1024 digital inputs and 32 analog inputs with four Nos. of leased line modems with self power supply system, modem, fault analysis system etc. with networking facility. Inspection by RDSO.	Nos.	0	290000	0
	[Rs. Two Lakhs Ninety thousand only]				
51	Supply of Lock HP type double complete with stretcher bar and pair of 'E' type lock and key of same combination to Drg. No;SA-3149/M[IRS]Alt.1. Inspection by RITES . Ward No will be specified as per site condition.	Nos	12	3048	36576
	[Rs. Three thousand forty eight only]				
52	Supply of Non-deteriorating type fuses for low voltage Railway signalling application as per Specn. No IRS:S-78/2006 as per following current ratings. Inspection by RDSO.				
	[a] 16 Amps	Mtr.	150	19	2850
	[Rs.Nineteen only]				
	[b] 4 Amps	Mtr.	400	19	7600
	[Rs.Nineteen only]				
	[c] 2 Amps	Mtr.	400	19	7600
	[Rs.Nineteen only]				
53	Distilled water plant 10 litre capacity with one spare coil. Inspection by Consignee.	NOS.	4	4985	19940
	[Rs.Four thousand nine hundred eighty five only]				
54	Bracket Offset for colour light signal post as per IRS:S- 10-78 and Drg. No. SA- 23080 (Adv). Inspection by RITES.				
a)	140 mm outside dia.	Nos.	8	972	7776
	Rate: Rs. Nine hundred seventy two only]				
b)	90 mm outside dia.	Nos.	6	972	5832
	Rate: Rs. Nine hundred seventy two only]				
55	Supply of Digital multimeter Fluke-87(V) or latest higher version with testing lead, complete with case and spare set of batteries. Inspection by Consignee.	No.s	3	30000	90000
	[Rs. Thirty thousand only]				
56	Supply of 2/4 wire way station equipment with telephone(DTMF signalling)as per spec. No: IRS:TC-60/93 (Amdt.4). Inspection by Consignee.	No.s	10	2694	26940
	[Rs.Two thousand six hundred ninty four only]				
57	Supply of Anti corrosive coating on signal,telecom boxes,location boxes etc. by ENECON make chemical SC or similar.Inspection by Consignee.	Kg.	42	5720	240240
	[Rs.Five thousand seven hundred twenty only]				

58	Supply of Position Light Shunt Signal dependent post type with hoods, lenses, number plates, lamp holders, lamp with off set bracket 90 mm dia long to suit 140 mm dia post [outer], SA-23840, latest. Inspection by RITES.	Set	9	7817	70353
	(Rs Seven thousand eight hundred seventeen only)				
59	Block instrument double line lock and block 3 position complete with telephone, condenser, induction coil etc. with arrangement for commutator handle locking but without line clear cooperative contact assembly and counter bracket and veeder counter etc. but with additional set of contact to make in TOL position and bell unit as per Drg. No. SA-22781(ADV) Alt-1. Specn. No.IRS:S-22-92 and IRS:S-23 for block instrument and Drg.No.SA-22897(ADV), Specn.No.IRS:S-23 for bell unit with circular and flat gong as per Drg.No. SA-22912(ADV), Specn.No.IRS:S-23. Inspection by RDSO.	No.s	6	47760	286560
	[Rs. Fourty seven thousand seven hundred sixty only]				
60 (a)	Hiring of 1 (One) TATA SUMO, SCORPIO or equivalent vehicle for inspection at work site by Railway official.	Day	100	579	57900
	[Rs. Five hundred seventy nine only]				
(b)	Charges for running of Vehicle [as mentioned in 60 (a)] per km.	Per Km	1200	4.20	5040
	[Rs.Four and paise twenty only]				
61	Printer of Canon make of Model No.iP 100 or similar.	No.	3	14995	44985
	[Rs.Fourteen thousand nine hundred ninty five only]				
62	Channel pin , single groove 7mm dia for track circuit vas per Specification No.S17-75.. Inspection by Consignee.	No.	1000	2	2000
	[Rs.Two only/				
63	Block Filter Unit to suit Specification no. IRS:S-68/89 as amended up to date. Inspection by RDSO.	No.	6	13000	78000
	[Rs. Thirteen thousand only].				
	TOTAL OF SCHEDULE-B				14073988

EAST COAST RAILWAY PROJECT ORGANISATION

NAME OF WORK: - “Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapur Road stations in WALTAIR division of East Coast Railway”.

SCHEDULE- C- TRANSPORTATION OF MATERIALS FROM OTHER UNITS/PLACES TO VISAKHAPATNAM STORES.

Sl. No	DESCRIPTION OF WORK	UNIT	Qty	Rate	Amount
1(a)	Unloading of signal & Telecom: materials from Railway Wagons and loading into Trucks/Trailors with contractor's labour, cranes including all lead, lift, taxes, tools etc.	MT	100	175	17500
(i)	[Rs. One hundred seventy five only]				
(ii)	Unloading of Signal & Telecom materials from Railway wagons with contractor's labour, cranes including all lead, lift, taxes, tools etc. and stacking in countable manner upto a free lead of 50 Mtrs.	MT	50	128	6400
	[Rs. One hundred twenty eight only]				
(iii)	Unloading Signal & Telecom materials from Trucks/Trailors with contractor's labour, cranes including all lead, lift, taxes, tools etc. and stacking in countable manner up to a free lead of 50 Mtr.	MT	50	128	6400
	[Rs. One hundred twenty eight only]				
1(b)	Loading of Signal & Telecom materials to Railway Wagons with contractor's labour, cranes including all lead, lift, taxes, tools etc.	MT	50	128	6400
	[Rs. One hundred twenty eight only]				
1(c)	Loading of Signal & Telecom materials into Trucks/Trailors with contractor's labour, cranes including all lead, lift, taxes, tools, etc.	MT	50	128	6400
	[Rs. One hundred twenty eight only]				
1(d)	Transportation of all sorts of Railway Signal & Telecom materials from any place in India to Railway Stores at Visakhapatnam and released Railway Signal & Telecom materials from Railway Stores at Visakhapatnam to Raipur Store Depot including loading, unloading and stacking the same at specified places as directed by the representative of Dy. CSTE [Proj]/WAT. The rate includes lead, lift, ascent, descent, all taxes, royalty, labour, tools and plants etc. complete.				
	For a lead up to 10 KM	MT	180	179	32220
	[Rs. One hundred seventy nine only]				
1(e)	For extra lead in excess of 10 Kilometres [Lead range from 10 Kilometres to 100 Kilometres] i.e. extra over and above item No: [a] above.	MT XKM	16200	2.61	42282
	[Rs. Two and paise sixty one only]				
1(f)	For extra lead in excess of 100 Kilometres [lead range beyond 100 Kilometres]i.e. extra over and above Item No:[a] & [b] above.	MT XKM	108000	1.96	211680
	[Rs. One and paise ninety six only]				
	Page total				3,29,282/-

SCHEDULE 'D'

Sl.No.	Description of work	unit	Qty.	Rate	Amount
1	Execution of Civil Engineering works as per S.E.Rly.S.O.R-1992 vol-1 section A to Z including Z/1.	LS	1	60000	60000
	[Rs.Sixty thousand only]				
	TOTAL OF SCHEDULE 'D'				60000

CHAPTER 12

EAST COAST RAILWAY PROJECT ORGANISATION

SPECIMEN FORMAT OF
BANK GUARANTEE BOND

CHAPTER 12**SPECIMEN FORMAT OF BANK GUARANTEE BOND**

1. In consideration of the President of India (herein after called the Government) having agreed to exempt _____ (hereinafter called the said Contractor(s)) from the demand, under the terms and conditions of an Agreement 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, on production of a bank Guarantee for Rs. _____ (Rupees _____ 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 to 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 Government by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We _____ do hereby undertake to pay the amounts (indicate the name of bank)

due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount/claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said contractor(s) of any of the 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 undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s)/supplier(s) in any suite or proceeding 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.

4. We, _____ further agree that the guarantee herein

(indicate the name of bank)

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 Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____ Office/ Department) Ministry of _____ 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 this guarantee is made on us in writing on or before the _____ we shall be discharged from all liability under this guarantee thereafter.

5. We, _____ further agree with the government that the (indicate the name of Bank) 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 said Agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said Contractor(s) and 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 being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or 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 Contractor(s)/Supplier(s).

7. We, _____ lastly undertake not to revoke this

(indicate the name of Bank)

this guarantee during its currency except with the previous consent of the Government in writing.

Dated the _____ day of _____ 2008

For _____

(indicate the name of bank)

CHAPTER 13

SPECIMEN FORMAT OF LETTER OF ACCEPTANCE.

CHAPTER 13

SPECIMEN FORMAT OF LETTER OF ACCEPTANCE

Without Prejudice
By Regd. Post with A.D
By Special Man

EAST COAST RAILWAY

Office of the
Dy. CSTE/PROJ
WALTAIR

No: S&T/PROJ/WAT/OT/08/2009

Dtd: .

To

Dear Sir(s),

Sub :- "Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapur Road stations in WALTAIR division of East Coast Railway".

Ref: - a) Your offer submitted on -----
b) Tender Notice No. ST/PROJ/WAT/OT/08/2009 dt 07.09.2009

01. With references to above, your offer has been accepted by the Railway Administration at a total value of Rs. -----/- (Rupees ----- only) with Contract Period of -- months from the date of issue of this Acceptance Letter at the following rates shown against each item under Schedules-A,B,C & D --- as enclosed to this letter.

Schedule-'A' : ----- % accepted rate in **Above/below/at par**
Schedule-'B' : -----% accepted rate in **Above/below/at par**
Schedule-'C' : -----% accepted rate in **Above/below/at par**
Schedule-'D' : -----% accepted rate in **Above/below/at par**

----- : -----

Other terms and conditions as incorporated in the tender documents issued for the work will be included in a formal agreement to be executed by you for carrying out the work.

02. An amount of Rs ----/- (Rupees ---- only) is to be deposited towards Security Deposit.

The EMD submitted alongwith tender in the shape of TDR/DR/PO/--- No: ----- for Rs. -----/-(Rupees ----- only) issued by the -----bank, ----- Branch in favour of FA & CAO/C/E.Co.Rly /BBS is adjusted towards Security Deposit. Balance amount

SIGNATURE OF TENDERER/OFFEROR WITH SEAL

DY.CSTE/PROJ/WAT

of Security Deposit i.e., Rs. -----/-(Rupees eighty nine thousand seventy only) is to be deposited in cash with FA & CAO (Con) E. Co. Railway/Bhubaneswar or otherwise if you so desire amount of balance Security Deposit will be recovered at the rate of 10% from your running bills of the contract.

03. You are requested to give a performance guarantee in any acceptable form as mentioned in the tender document, for an amount of Rs -----/- (Rupees ----- only) before signing of the agreement and it should be valid upto expiry of the maintenance period.
04. Until a formal Agreement is prepared and executed, acceptance of this Tender shall constitute a binding contract. As such, you are requested to furnish the performance Guarantee to execute the agreement within 15 (fifteen) days after issue of this acceptance letter.
05. Please contact Dy. Chief Signal & Telecom Engineer(Proj)E. Co. Rly./WAT immediately with your execution programme for further instructions to start the work on the authority of this Acceptance Letter.
06. You are also requested to submit the EFT mandate form duly filled with details of bank account for receiving payment through EFT system.
07. Please acknowledge receipt of this letter of Acceptance and confirm that you are taking action as stated above.

Encl: Schedules – A,B ,C & D----- along with proforma for EFT system.

Yours faithfully,

Dy Chief Signal & Telecom Engineer (Proj)
E. Co. Railway/ WALT AIR
For & on behalf of President of India.

No: S&T/PROJ/WAT/OT/

Dtd. .

Copy with copy of enclosures forwarded for information to :-

01. Sr.AFA/C/VSKP (Expenditure Section) along with TDR/DR/PO/----- No: ---- for Rs. -----/-(Rupees ----- only) issued by the -----bank, ----- Branch in favour of FA & CAO/C/E.Co.Rly /BBS for adjustment towards security deposit.
02. Sr.AFA/C/VSKP (Finance Section).
03. Principal Director of Audit (Con)/E.Co.Rly./Bhubaneswar.
04. Dy.Chief Signal & telecom Engineer (Proj)/E.Co.Rly/WAT. No work order should be issued to the contractor. The contractor should start the work straightway on the basis of this Acceptance Letter for the items and specifications covered therein. Before starting the work, the execution programme should be signed by ASTE/DSTE/Dy CSTE (Proj).
05. Regional employment Exchange/VSKP/A.P.
06. Assistant Labour Commissioner, Visakhapatnam.
07. Dy.Chief Vigilance Officer/E.Co.Rly/BBS.
08. Dy CSTE/P/BBS.

Encl: Schedules – A, B , C & D

Dy. Chief Signal & Telecom Engineer(Proj)
E. Co. Railway/ Waltair

CHAPTER 14

EAST COAST RAILWAY PROJECT ORGANISATION

QUESTIONNAIRE

CHAPTER-14

EAST COAST RAILWAY PROJECT ORGANISATION
QUESTIONNAIRE TO BE FILLED IN BY TENDERERS.

Sl. No.	Details	Yes/No	Remarks
1	Whether cost of tender document and Earnest Money is deposited.		
2	Whether the certificate of familiarization submitted as per Chapter-15 of bid document.		
3	Whether the declaration by the tenderer(s) filled in as per Chapter-16 of bid document.		
4	Whether rates in figures and words quoted for each schedule of work in the place provided in Chapter-17 of Bid Document.		
5	Whether History sheet of tenderer(s) filled in as per Annexure-A of Bid Document.		
6	Whether details of execution of similar single work to the extent of 35% of advertised tender value filled in as per Annexure-B of Bid documents.		
7	Whether details of Contractual payments received filled in as per Annexure-C of Bid documents.		
8	Whether details of Toos and Plants filled in as per Annexure-D of Bid documents.		
9	Whether details of personnel to be engaged in the work filled in as per Annexure-E of Bid documents.		
10	Whether details of work completed in the past filled in as per Annexure-F of Bid document.		
11	Whether details of works presently on hand filled in as per Annexure-G of Bid documents.		
12	Whether declaration regarding association of Railway Officers with tenderer(s) given as per Annexure-H of Bid document.		
13	Whether list of court cases furnished as per Annexure-I of Bid document.		
14	Whether list if arbitration cases furnished as per Annexure-J of Bid document.		
15	Whether broad plan of execution of work filled in as per Annexure-K of Bid documents.		
16	Whether details of other credentials/facilities, filled in as per Annexure-L of Bid documents.		
17	Whether mandate form of EFT, filled in as per Annexure-M of Bid documents.		
18	Whether audited balance sheet duly certified by Chartered Accountant in support of the receipt of contractual payments received during three previous financial years and the current year submitted.		

SIGNATURE OF TENDERER/OFFEROR WITH SEAL

DY.CSTE/PROJ/WAT

EAST COAST RAILWAY PROJECT ORGANISATION

CERTIFICATE OF FAMILARIZATION

CHAPTER-15

EAST COAST RAILWAY PROJECT ORGANISATION

Name of Work:- “Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapuram Road stations in WALT AIR division of East Coast Railway”.

CONTRACTOR’S FAMILARIZATION

I/We hereby solemnly declare that I/we have visited the site of above work and have familiarized myself/ourselves of the working conditions there in all respects and in particular the following:

1. Topography of the area and existing Road net work (high ways & Village, Pucca & Kacha) and availability of Service Roads,
2. Soil Conditions at the site of the work.
3. Sources and availability of construction material.
4. Rates for Construction materials.
5. Availability of local labour , both skilled and unskilled and the prevailing labour rates.
6. Availability of Water and Electricity.
7. Availability of space for putting up labour camps, offices Store Godowns , Engineering yards etc.

EAST COAST RAILWAY PROJECT ORGANISATION

DECLARATION
BY THE TENDERER(S)

EAST COAST RAILWAY PROJECT ORGANISATION**DECLARATION BY THE TENDERER(S)**TENDER NOTICE NO :**ST/PROJ/WAT/OT/08/2009 dt 07.09.2009**

Name of Work:- “Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda & Singapur Road stations in WALTAIR division of East Coast Railway”.

To
The President of India,
Acting through the Dy Chief Signal & Telecom Engineer (Proj)
East Coast Railway, WALTAIR

- 1.0 I,/We, _____ have read the various conditions to tender attached hereto and agree to abide by the said conditions. I/we also agree to keep this tender open for acceptance for a period of **120 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 works for East Coast Railway, at the rates quoted in the attached schedule and thereby bind myself / ourselves to complete the work in all respects within **9(Nine) months** form the dated of issue of letter of acceptance of the tender. as detailed below at the rates quoted below:-
- 2.0. I/We also hereby agree to abide by the General Conditions of Contract corrected up to printed / advance correction slip no. x dated xxx and to carry out the works according to the Special conditions of contract and Specifications of materials and works as laid down by the Railway in the annexed special conditions / specifications and the South Eastern Railway General conditions of Contract and standard specification Pt.IV corrected up to printed / advanced correction slip no. x dated xxx . for the present Contract
- 3.0. A sum of **Rs. /-** is submitted herewith as Earnest Money. The full value of the Earnest Money shall stand forfeited without prejudice to any other right or remedies in case my/ our tender is accepted and if ;
- (a) I/We do not execute the contract documents within 15 (fifteen) days after issue of acceptance letter.
- (b) I/We do not commence the work within 15 (fifteen) days from issue of acceptance letter.
- 4.0 Until a formal agreement is prepared and executed, 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 the Witnesses:

- 1.
- 2.

Signature of Tenderer(s)**Date:****Address of Tenderer(s)**

EAST COAST RAILWAY PROJECT ORGANISATION

OFFERED RATE SHEET

EAST COAST RAILWAY PROJECT ORGANISATION

OFFERED RATE SHEET

Name of Work:- “Replacement of existing signaling gears and Provision of all S&T works for commissioning of Panel Interlocking at Rayagada, Ladda&Singapuram Road stations in WALTAIR division of East Coast Railway”.

Offered Rate Sheet for works covered under Schedule A, B, C& D as detailed in Chapter 11.

Sl. No.	Name of the Schedule	Basic Value	Quoted Tender rates (Percentage above / Below the departmental value for the schedule)	
			In figures	In words
(1)	(2)	(3)	(4)	(5)
1	Schedule - A	1,63,41,987/-	__ % Above/below	_____ % Abo ve/below
2	Schedule - B	1,40,73,988/-	__ % Above/below	_____ % Abo ve/below
3	Schedule -C	3,29,282/-	__ % Above/below	_____ % Abo e/below
3	Schedule -D	60,000/-	__ % Above/below	_____ % Abo e/below
	Total	3,08,05,257/-		

1. The Tenderer(s) should quote only single percentage above/below/at par against each under each schedule in the rate sheet only.
2. In case the rate above/ below is not mentioned clearly, the quoted rate shall be treated as above.
3. The Tenderer(s) should not quote any percentage/rate in the annexed schedule, and if quoted, the tender stands summarily rejected.
4. Conditional tender stands summarily rejected.
5. The contract period of the of work is **9(Nine)** months from the date of issue of Acceptance letter.
6. **PVC Clause is not applicable to this tender.**
7. The rates quoted by the tenderer(s) & accepted by Railway Administration shall hold good till the completion of work and no additional claims will be admissible on account fluctuation in market rates, increase in excess/any other levies or for any reason whatsoever.

EAST COAST RAILWAY PROJECT ORGANISATION

<p>ANNEXURES –A to N</p>

- 1. ANNEXURE – A:-HISTORY SHEET OF THE TENDERER.**
- 2. ANNEXURE - B:- COMPLIANCE OF ELIGIBILITY CRITERIA BY THE TENDERER REGARDING EXECUTION OF SIMILAR SINGLE WORK.**
- 3. ANNEXURE - C:- COMPLIANCE OF ELIGIBILITY CRITERIA BY THE TENDERER REGARDING CONTRACTUAL PAYMENTS RECEIVED.**
- 4. ANNEXURE - D:- DETAILS OF CONTRUCTION MACHINERIES, TOOLS & PLANTS, VEHICLES ETC.**
- 5. ANNEXURE –E :-DETAILS OF TECHNICAL AND OTHER PERSONNELS AVAILABLE ON HAND & PROPOSED TO BE ENGAGED IN WORK**
- 6. ANNEXURE - F:- DETAILS OF WORKS COMPLETED DURING LAST THREE FINANCIAL YEARS & CURRENT YEAR BY THE TENDERER(s)**
- 7. ANNEXURE - G:- DETAILS OF WORKS ON HAND BY THE TENDERER(s)**
- 8. ANNEXURE - H:- DECLARATION REGARDING ASSOCIATION OF RAILWAY OFFICER(S) WITH TENDERER(S)**
- 9. ANNEXURE - I:- LIST OF COURT CASES DURING LAST 3 YEARS**
- 10.ANNEXURE –J :-LIST OF ARBITRATION CASES DURING LAST 3 YEARS**
- 11.ANNEXURE–K:-BROAD PLAN OF EXECUTION OF THIS WORK WITHIN THE STIPULATED COMPLETION PERIOD**
- 12.ANNEXURE -L:-DETAILS OF OTHER CREDENTIALS/FACILITIES AVAILABLE WITH THE FIRM/CONTRACTOR**
- 13.ANNEXURE- M:-MANDATE FORM OF EFT**
- 14. ANNEXURE –N : INDEMINITY BOND FORM**

EAST COAST RAILWAY PROJECT ORGANISATION

ANNEXURE – 'A'

HISTORY SHEET OF THE TENDERER

i)	Name of the Company	:	
ii)	Address of Registered Office	:	
	Phone: _____ Fax: _____		
iii)	Constitution of the Company	:	
a)	Ownership particulars whether Private Ltd., Public Ltd., or partnership firm or any other type duly supported by the documents such as partnership deed and articles of constitution etc. as applicable.	:	
b)	Name and address of collaborator(s)	:	
c)	Nature of participation by collaborator(s) in share holding of the Company	:	
d)	Extent and nature of proposed participation by collaborator(s) in execution of this work	:	
iv)	Number of years the firm has been in operation in India under its present	:	
v)	Any Other information		

Signature of tenderer
Along with Seal

EAST COAST RAILWAY PROJECT ORGANISATION

ANNEXURE – 'B'

Compliance of Eligibility criteria by the tenderer regarding execution of similar single work to the extent of 35% of advertised tender value as per para 3.1 of Tender Notice (Chapter-2) & Eligibility Criteria (Chapter-4)

1. Name and style of the contractor with address (Present tenderer)
2. Name and scope of the work executed
3. Authority who have awarded the contract.
4. Full address of the authority under whom the contract was executed.
5. Whether it is a Govt/Railway/Semi Govt organization.
6. Contractual Agreement No. & date.
7. Value of the contract.
 - (a) Original value of the contract.
 - (b) Value of works executed and payment received (should be minimum of 35% of the advertised tender value)
 - (c) Last sanctioned agreemental value in Rs..... (should be minimum of 35% of advertised tender value).
8.
 - (a) Date of award of contract.
 - (b) Date of actual physical completion of work.
9. Details of copy of documents attached in support of completion of above similar single work.
 - (a) Certificate No. and date.
 - (b) Authority issued.
10. Declaration by the tenderer : I hereby declare that the information given above are true and the copy of the certificate enclosed is genuine. If any of the information given above is found to be wrong at any time, my tender will liable to be rejected and such liability will be compensated by me.

Name & signature of Tenderer
along with Seal.

N.B. Certificates containing the above information will only be considered. Incomplete certificates/copy of bills/letter of acceptance will not be considered.

EAST COAST RAILWAY PROJECT ORGANISATION

ANNEXURE – 'C'

Compliance of Eligibility criteria by the Tenderer regarding contractual payments received during the qualifying period i.e during the current financial year plus previous three financial years as per para 3.2 of Tender Notice (Chaper-2) and Eligibility Criteria (Chapter-4).

1. Name and style of the Tenderer with address (present tenderer)
2. Amount of contractual payment received as per the audited balance sheet of the contractor (Tenderer).

<u>Year</u>	<u>Amount of contractual payments received</u>	<u>Page Ref of Audited Balance Sheet</u>
2006-07	Rs.	F/.....
2007-08	Rs.	F/.....
2008-09	Rs.	F/.....
2009-10	Rs.	F/.....
Total	Rs.	

3. Name & address of the Chartered Accountant who have audited the balance sheet.

4. Declaration by the tenderer: I hereby declare that the information given above are true and copy of the certificate enclosed is also genuine. If any of the information given above is found to be wrong at any time, my tender will liable to be rejected.

Name & signature of Tenderer
along with Seal.

N.B. :-

1. **Copy of Chartered Accountant certificate along with copy of balance sheet of the contractors should be furnished.**
2. **The value of total contractual payments received within the current financial year plus three previous financial years should be minimum of 150% of the advertised tender value. Only "Contractual payments" or "Contractual receipts" will be considered for evaluation of this criteria. Turn over will not be considered.**
3. **Contractual payment should not be construed as "Turn Over " which includes contractual payments received, works in progress, stock on hand etc.**

EAST COAST RAILWAY PROJECT ORGANISATION**ANNEXURE – 'G'****DETAILS OF WORKS ON HAND OF THE TENDERER(S)**

Sl	Name of work	Total cost of contact value in Rs/-	Month and year of commencement	Date of award & Completion period	Present progress		Full address of the authority under whom the work is being executed	Documentary proof (enclose copies of acceptance letter & proof regarding present progress etc. & indicate Annexure No. in this column)
					Financial	Physical		
1	2	3	4	5	6	7	8	9

Signature of tenderer
Along with seal

EAST COAST RAILWAY PROJECT ORGANISATION**ANNEXURE - 'I'****LIST OF COURT CASES DURING PREVIOUS
THREE FINANCIAL YEARS**

Sl No	Name of work	Value of work	Name of Client Deptt.	Name of the Court	Date of institution of case	Relief sought from Court	Brief reason of dispute	Final/Present position of the case
1	2	3	4	5	6	7	8	9

Signature of tenderer
Along with Seal

EAST COAST RAILWAY PROJECT ORGANISATION**ANNEXURE – 'J'****LIST OF ARBITRATION CASES DURING PREVIOUS THREE FINANCIAL YEARS.**

Sl. no	Name of work	Value of work	Name of Client Deptt.	Amount and date of claim preferred	Claim of Deptt. if any	Brief reasons of disputes	Final/Present position of the case
1	2	3	4	5	6	7	8

Signature of Tenderer
Alongwith Seal

EAST COAST RAILWAY PROJECT ORGANISATION

ANNEXURE – 'L'

OTHER CREDENTIALS/FACILITIES OF THE FIRM/CONTRACTOR (WHICH ARE NOT COVERED IN ANNEXURE-A TO ANNEXURE – J)



Signature of Tenderer
Along with Seal.

EAST COAST RAILWAY PROJECT ORGANISATION
ANNEXURE – 'M'

The Contractor/supplier having their bank accounts on any of the city centres where reserve bank of India's EFT (Electronic Fund Transfer) facility exists will receive their payments through EFT scheme in case of being awarded with the work/supply order . For that they (the agency) will have to furnish the **mandate form of EFT**(As per proforma given below)) along with the tender document.

Electronic clearing service (Credit clearing)Model Mandate form (Invcestor/Customer's Option to receive payments through Credit Clearing Mechanism).

Name of the scheme and the periodicity of payment

No.

- 1) Contractor/supplier's Name :
- 2) Particulars of their Bank Account:

- a) Name of Bank:
- b) Name of the Branch :
Address :

Telephone No.

- c) 9 Digit Code Number of the bank and branch :
9 As Appearing on the MICR cheque issued by the bank)
- d) Type of the Account (S.B. Current or cash Credit) :
With code (10/11/13)
- e) Ledger and ledger folio Number :
- f) Account number (as appearing on the cheque book):

(In lieu of the bank certificate to be obtained as under, please attach a bank cancelled cheque or photocopy of a cheque or front page of your saving bank passbook issued by your bank for verification of the above particulars)

- 3) Date of effect :

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge the responsibility expected of me as a participant under the scheme.

Signature of the Contractor/Supplier.

Date: _____

Certified that the particulars furnished above are correct as per our records.

Bank's stamp.

Date: _____

Signature of The Authorised Official of the Bank.

(FORM) ANNEXURE –N

To
The President of India,
Through the Dy Chief Signal & Telecom Engineer/Proj
East Coast Railway, WALTAIR

Sub: INDEMNITY BOND FORM.

Whereas _____ herein after called the contractor[s] have entered into a contract with the President of India through the Dy Chief Signal & Telecom Engineer/Proj, East coast Railway, WALTAIR, [herein-after called the Railway] vide Agreement No. _____ whereas the Railway has agreed to issue contractor as the provision of contact the Signalling/Telecommunication materials for issue in the above work costing of RS. _____ [Rupees _____] only. The contractor[s] hereby undertakes to ensure safe custody of all Signalling/Telecommunication materials and to use them exclusively for the purpose for which they have been issued. The contractor[s] further undertakes to full account for all Signalling/Telecommunication materials at regular intervals as may be prescribed by the Railway, as also when otherwise so demanded by the Railway and return all unused Cables and other materials arising as per the provision of the contract. The contractor[s] further agrees that they will give all the facilities to the Railway for physical verification of the signalling materials whenever so directed by the Railway.

By this Bond of Indemnity, we, _____ undertake to keep the Railway indemnified against any loss or damage, which they may suffer, by default of the Contractor[s] in fulfilment/s of the above conditions.

Further, we, the contractor[s], are bound to the Railway or their successors and assign the sum of RS. _____ [Rupees _____].

Signed and delivered by ourselves on this _____ day of _____ Two thousand and four.

Place:

Signature:

Dated:

Witness:

END OF TENDER DOCUMENT