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: R S INFRAPROJECTS PVT LTD

: Article 5 Agreement or memorandum of an Agreement

: AGREEMENT

: 0

(Zero)

: R S INFRAPROJECTS PVT LTD

: JHARKHAND URJA SANCHARAN NIGAM LTD

: R S INFRAPROJECTS PVT LTD

1.000

(One Thousand only)



-----Please write or type below this line----

Contract Agreement No. 05

THIS AGREEMENT is made the 27th day of August' 2019, BETWEEN

- (1) Jharkhand Urja Sancharan Nigam Limited (JUSNL) (CIN No. U40108JH2013SGC001704), a corporation incorporated under the laws of India and having its principal place of business at JUSNL (SLDC) Building, Kusai Colony, Doranda, Ranchi-02 (hereinafter called "the Employer"), and
- (2) M/s R.S. Infraprojects Pvt. Limited (CIN No. U28112DL2005PTC140621), a corporation incorporated under the laws of India and having its principal place of business at H-70, Lane 10, Sainik Farms, New Delhi-110062 (hereinafter called "the Contractor" 003446236



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- 2. The onus of checking the legitimacy is on the users of the certificate.3. In case of any discrepancy please inform the Competent Authority.

WHEREAS the Employer desires to engage the Contractor to design, manufacture, test, deliver, install, complete and commission certain Facilities for Supply, Installation, Testing and Commissioning of 132 kV Double Circuit Transmission Lines from Hansdiha to Jasidih— 45.398 km, LILO of both ckt of 132 kV DC Jamtara to Madhupur Transmission line at Narayanpur— 12.592 & 13.354km, LILO of one ckt of 132 kV D/C Lalmatia to Dumka at Hansdiha—3.42 km, Transmission line from Sarath to Palojori—20.101 km & Transmission line from Sarath to Chitra—15.138 km ("the Facilities"), and the Contractor has agreed to such engagement in accordance with Jharkhand Urja Sancharan Nigam Limited's NIT No. 223/PR/JUSNL/2018-2019 (Package 06B) RFB No. JPSIP/2018/TL/06-B and subject to the terms and conditions hereinafter appearing.

NOW IT IS HEREBY AGREED as follows:

Article 1. Contract Documents

1.1 <u>Contract Documents</u> (Reference GCC Clause 2)

The following documents shall constitute the Contract between the Employer and the Contractor, and each shall be read and construed as an integral part of the Contract:

- (a) This Contract Agreement and the Appendices hereto
- (b) Letter of Bid (Technical & Financial) and Price Schedules submitted by the Contractor
- (c) Particular Conditions (Section IX of NIT No. 223/PR/JUSNL/2018-2019)
- (d) General Conditions (Section VIII of NIT No. 223/PR/JUSNL/2018-2019)
- (e) Specifications (NIT No. 223/PR/JUSNL/2018-2019)
- (f) Drawings (NIT No. 223/PR/JUSNL/2018-2019)
- (g) Other completed Bidding forms submitted with the Bid
- (h) Employer's Requirement (Section VII of NIT No. 223/PR/JUSNL/2018-2019)
- (i) All Addendums and Pre-bid clarifications (if any) issued by the Employer against NIT No. 223/PR/JUSNL/2018-2019
- (j) Post bid clarifications and undertakings submitted by the Contractor

1.2 Order of Precedence (Reference GCC Clause 2)

In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order in which the Contract Documents are listed in Article 1.1 (Contract Documents) above.

1.3 <u>Definitions</u> (Reference GCC Clause 1)

Capitalized words and phrases used herein shall have the same meanings as are ascribed to them in the General Conditions.

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Article 2. Contract Price and Terms of Payment

2.1 <u>Contract Price</u> (Reference GCC Clause 11)

The Employer hereby agrees to pay to the Contractor the Contract Price in consideration of the performance by the Contractor of its obligations hereunder. The Contract Price shall be: Rupees Fifty One Crore Twenty Five Lac and Eighty Six only, Rs. 51,25,00,086.00 (excluding GST/ Taxes), as specified in Price Schedule No. 5 (Grand Summary), or such other sums as may be determined in accordance with the terms and conditions of the Contract.

2.2 Terms of Payment (Reference GCC Clause 12)

The terms and procedures of payment according to which the Employer will reimburse the Contractor are given in the Appendix (Terms and Procedures of Payment) hereto.

Article 3. Effective Date

3.1 <u>Effective Date</u> (Reference GCC Clause 1)

The Effective Date from which the Time for Completion of the Facilities shall be counted is the date when all of the following conditions have been fulfilled:

- (a) This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor;
- (b) The Contractor has submitted to the Employer the Performance Security and the advance payment guarantee;
- (c) The Employer has paid the Contractor the advance payment Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable.
- 3.2 If the conditions listed under 3.1 are not fulfilled within two (2) months from the date of this Contract notification because of reasons not attributable to the Contractor, the Parties shall discuss and agree on an equitable adjustment to the Contract Price and the Time for Completion and/or other relevant conditions of the Contract.

Article 4. Communications

- 4.1 The address of the Employer for notice purposes, pursuant to GCC 4.1 is: JUSNL (SLDC) Building, Kusai Colony, Doranda, Ranchi–834002.
- 4.2 The address of the Contractor for notice purposes, pursuant to GCC 4.1 is: H-70, Lane W-10, Sainik Farms, New Delhi-110062.

Article 5. Appendices

- 5.1 The Appendices listed in the attached List of Appendices shall be deemed to form an integral part of this Contract Agreement.
- 5.2 Reference in the Contract to any Appendix shall mean the Appendices attached hereto, and the Contract shall be read and construed accordingly.



IN WITNESS WHEREOF the Employer and the Contractor have caused this Agreement to be duly executed by their duly authorized representatives the day and year first above written.

Signed by, for and on behalf of the Employer

27/9/1 General Manager

(Contracts & Material)

(Contracts & Material)

Mr. Chandra Shekhar Jha, General Mahager Ranchi Contracts & Materials, Multi-Lateral Funding Projects.

Witness:

Mr. Ajay kumar,

Dy. General Manager, C&M, MLFP

Mr. Awanish Kumar,

Senior Manager, C&M, MLFP

Signed by, for and on behalf of M/s R S Infra Pvt. Limited

Mr. Krishna Pratap Singh, Vice President

Transmission Line Projects

Witness:

Mr. Arun Upadhyay, AGM (Transmission)

List of Appendices

- 1. Appendix 1. Terms and Procedures of Payment
- 2. Appendix 2. Price Adjustment
- 3. Appendix 3. Insurance Requirements
- 4. Appendix 4. Time Schedule
- 5. Appendix 5. List of Major Items of Plant and Installation Services and List of Approved Subcontractors
- 6. Appendix 6. Scope of Works and Supply by the Employer
- 7. Appendix 7. List of Documents for Approval or Review
- 8. Appendix 8. Functional Guarantees



Appendix 1. Terms and Procedures of Payment

In accordance with the provisions of GCC Clause 12 (Terms of Payment), the Employer shall pay the Contractor in the following manner and at the following times, on the basis of the Price Breakdown given in the section on Price Schedules. Payments will be made in Rs, unless otherwise agreed between the Parties. Applications for payment in respect of part deliveries may be made by the Contractor as work proceeds.

TERMS OF PAYMENT

Schedule No. 1. Plant and Equipment Supplied from Abroad – Not used.

Schedule No. 2. Plant and Equipment Supplied from within the Employer's Country

In respect of plant and equipment supplied from within the Employer's country, the following payments shall be made.

Ten percent (10%) of the total EXW amount as Mobilization payment against receipt of invoice, and an irrevocable mobilization payment security for the equivalent amount made out in favour of the Employer. The mobilization payment security may be reduced in proportion to the value of the plant and equipment delivered to the site, as evidenced by shipping and delivery documents.

The 10% Mobilization payment shall be paid as under:

5% of the total EXW amount on submission of invoice and proof by the contractor that the site office is opened.

5% of the total EXW amount on submission of invoice and proof by the contractor on certification by the Employer of the commencement of line survey.

Fifty (50%) of the total or pro rata EXW amount upon Incoterm "EXW," upon delivery to the carrier and on submission of following documents through irrevocable Letter of Credit opened in favour of supplier bank:

- i) 6 copies of supplier invoice showing contract no., goods description, quantity, unit price and total amount.
- ii) Original and 6 copies of negotiable, clean, on-board bill of lading (from Indian Banking Association approved transporter in case of road cargo) marked freight prepaid and 6 copies of non-negotiable bill of lading.
- iii) 6 copies of Detailed Packing list identify contents of each package.
- iv) Insurance Policy/Certificate.
- v) Manufacturer's / supplier's warranty certificate.
- vi) Factory inspection report issued by the Employer in the form of Dispatch Authorization.
- vii) Certificate of origin.
- viii) The Contractor to submit proof of GST payment and e-way bill along with invoice.
- ix) Certificate from the Project Manager on the specified format indicating that the material is required sequential to related erection and civil activities

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Thirty percent (30%) of the EXW amount upon *Incoterm* "EXW," price of each item shall be paid within 45 days after receipt and storage of material at site and on physical verification by the employer. The payment shall be made on submission of following documents:

- i) Documentary evidence of handing over of material at the Contractor's site store, to Employer and its re-issue to the Contractor against indemnity bond for execution of work.
- ii) Contractor's detailed invoice.
- iii) Detailed Packing list.
- iv) Insurance policy/Certificate.
- v) Dispatch authorization issued by the employer.
- vi) Tax Certificate if any.
- vii) Proof of deposit of tax other than GST if any

Five percent (5%) of the total or pro rata EXW amount upon issue of the Completion Certificate including submission of As Built Drawings & Documents, within forty-five (45) days after receipt of invoice.

Five percent (5%) of the total or pro rata EXW amount upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice.

Schedule No. 3. Design Services

In respect of design services, payments shall be made in Rs, in the following manner:

Ten percent (10%) of the total design services amount as an advance payment against receipt of invoice, and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer.

The breakup of 10% mobilization payment amount is as under:

5% of the total EXW amount on submission of invoice and proof by the contractor that the site office is opened.

5% of the total EXW amount on submission of invoice and proof by the contractor on certification by the Employer of the commencement of line survey.

Ninety percent (90%) of the total or pro rata design services amount upon acceptance of design in accordance with GCC Clause 20 by the Project Manager within forty-five (45) days after receipt of invoice.

Schedule No. 4. Installation Services

In respect of installation services, payments shall be made:

Ten percent (10%) of the total installation services amount as a mobilization payment against receipt of invoice, and an irrevocable mobilization payment security for the equivalent amount made out in favour of the Employer. The mobilization payment security may be reduced in proportion to the value of work performed by the Contractor as evidenced by the invoices for installation services.

The Contractor to submit GST and civil material consumption and utilization report for loyalty calculation.

The breakup of 10% mobilization payment amount is as under:

5% of the total EXW amount on submission of invoice and proof by the contractor that the site office is opened.

5% of the total EXW amount on submission of invoice and proof by the contractor on certification by the Employer of the commencement of line survey.

Eighty percent (80%) of the measured value of work performed by the Contractor, as identified in the said Program of Performance, during the preceding month, as evidenced by the Employer's authorization of the Contractor's application, will be made monthly within forty-five (45) days after receipt of invoice except for the payment of following lot items which will be regulated as under:

Payment of lot items specified under unit/ Qty. columns in the price schedule:

Payment of lot items will be paid on completion of the lot activity as below:

Five percent (5%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Completion Certificate, within 45 days after receipt of invoice.

Five percent (5%) of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice.

In the event that the Employer fails to make any payment on its respective due date, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate equal to PLR of SBI prevailing at the time of due date of payment per month for period of delay until payment has been made in full.

PAYMENT PROCEDURES

The procedure to be followed in applying and certification and making payment are as explained in above respective paras. The Employer shall make payments promptly within forty five (45) days of submission of an invoice/claim by the Contractor. All the payment shall be released to the Contractor directly except the payment due on shipment, which shall be paid through irrevocable confirmed Letter of Credit. The Letter of Credit shall be established by the Employer in time for supplies to be made as scheduled. However, the payments of price adjustment and taxes & duties etc. shall be made as follows:

a) Payment of price adjustment:-

Ninety Percent (90%) of the calculated price variation will be made within 45 days after receipt of invoice.

Five percent (5%) of the calculated price variation will be made upon issue of the Completion Certificate, within 45 days after receipt of invoice.

Five percent (5%) of the calculated price variation will be made upon issue of the Operational Acceptance Certificate, within 45 days after receipt of invoice.



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b) Taxes and Duties:

Taxes & Duties in respect of transaction between Employer and the Contractor and any other tax as applicable for destination site/state on all items of supply including bought-out finished items (as identified in the Contract), which shall be dispatched directly from the sub-vendor's works to the Employer's site (sale-in-transit) will be paid after each shipment against documentary evidence. This payment shall be released by Employer directly to the Contractor against invoices to be submitted by the Contractor. No Tax will be paid on the bought-out items, which are directly dispatched by the Subcontractor.

Note: The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Contractor shall remain constant unless there is change made in the Scope of Work by Employer and/or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the Contractor shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the Contractor, are required for successful completion of the scope of work as per Technical Specification, the Contractor shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the Contractors and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the Contractor, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

Appendix 2. Price Adjustment

PRICE ADJUSTMENT

1.1 General

1.1.1 Prices for work and materials covered under the scope of this Specification shall be furnished by the contractor in the manner specified in the Bid Form & Price Schedules. The Prices shall remain FIRM for all the equipments and installation services except that of supply of Tower Material and Conductor which shall be adjustable.

1. Price variation for Tower material:

Transmission Line Tower with both Heavy and Light angles:

$$P = \frac{Po}{100} \left(11 + 32 \frac{SBLR}{SBLRo} + 25 \frac{SBIR}{SBIRo} + 09 \frac{Zn}{Zno} + 23 \frac{W}{Wo} \right)$$

Wherein.

P = Price payable as adjusted in accordance with the above formula. **Po** = Price quoted/confirmed.

SBLRo = Price of Steel Blooms- Retail

This price is as applicable on the 1st working day of the month, one month prior to the date of tendering.

SBIRo = Price of Steel Billets- Retail

This price is as applicable on the 1st working day of the month, one month prior to the date of tendering.

Zno = Price of Electrolytic high grade zinc- Retail

This price is as applicable on the 1st working day of the month, one month prior to the date of tendering.

 \boldsymbol{Wo} = All India consumer price index number for industrial workers as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base: 2001=100)

This index number is as applicable on the 1st working day of the month, three months prior to the date of tendering.

The above prices and indices are as published by IEEMA one month prior to the date of tendering.

SBLR = Price of Steel Blooms- Retail

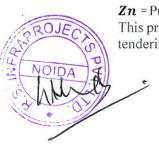
This price is as applicable on the 1st working day of the month, two months prior to the date of tendering.

SBIR = Price of Steel Billets- Retail

This price is as applicable on the 1st working day of the month, <u>two</u> months prior to the date of tendering.

Zn = Price of Electrolytic high grade zinc- Retail

This price is as applicable on the 1st working day of the month, two months prior to the date of tendering.



W = All India consumer price index number for industrial workers as published by the Labour Bureau, Ministry of Labour, Govt. of India (Base: 2001=100)

This index number is as applicable on the 1st working day of the month, <u>four</u> months prior to the date of tendering.

2. Price variation for Conductor:

P = Po + WA(AL - ALo) + WF(FE - FEo)

Wherein,

P = Price payable in Rs. per km as adjusted in accordance with the above formula.

Po = Price quoted/confirmed in Rs. per km.

 $\boldsymbol{WA} = W$ eight of A luminium in A C SR conductor in M T per km . For A C SR Panther conductor this factor shall be 0.586 M T/km

ALO = Price of daily LME Cash SELLER Settlement price of Aluminium. This price is applicable prevailing as on 30 days prior to the date of tendering.

 $\boldsymbol{WF} = W$ eight of Steel Content in ACSR conductor in MT per Km. For ACSR Panther conductor this factor shall be 0.388 MT/km.

FEO = Price of High Tensile Galvanized Steel Wire in Rs. per MT of appropriate size. This price is applicable prevailing as on 30 days prior to the date of tendering

The above indices are as published by IEEMA

AL = Price of daily LME Cash SELLER Settlement price of Aluminium. This price is applicable prevailing as on 30 days prior to the date of delivery.

FE = Price of High Tensile Galvanized Steel Wire in Rs. per MT of appropriate size. This price is applicable prevailing as on 30 days prior to the date of delivery.

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Appendix 3. Insurance Requirements

Insurances to be Taken Out by the Contractor

In accordance with the provisions of GC Clause 34, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, such approval not to be unreasonably withheld.

(a) Cargo Insurance

Covering loss or damage occurring, while in transit from the supplier's or manufacturer's works or stores until arrival at the Site, to the Facilities (including spare parts therefore) and to the construction equipment to be provided by the Contractor or its Subcontractors.

Amount	Deductible	Parties	From	То
	limits	Insured		
140% of the (Ex-works/ CIP	NIL	Contractor	Warehouse	Warehouse
Indian Port of entry/CIP Entry		& Employer		+ 60 days
Border Point value)				1900-00 1 000

(b) Installation All Risks Insurance

Covering physical loss or damage to the Facilities at the Site, occurring prior to completion of the Facilities, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the defect liability period while the Contractor is on the Site for the purpose of

Amount	Deductible limits	Parties Insured	From	To
140% of the	NIL	Contractor/	Receipt at	Upto Defect
(Contract Price)		Sub-contractor	site	Liability period
		& Employer		

performing its obligations during the defect liability period.

(c) Third Party Liability Insurance

Covering bodily injury or death suffered by third parties (including the Employer's personnel) and loss of or damage to property (including the Employer's property and any parts of the Facilities that have been accepted by the Employer) occurring in connection with the supply and installation of the Facilities.

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Amount	Deductible limits	Parties Insured	From	То
Rs. 0.5 million per person per occasion	NIL	Contractor/ Sub-contractor	Commencement of work	Upto Defect Liability period

(d) Automobile Liability Insurance

Covering use of all vehicles used by the Contractor or its Subcontractors

(whether or not owned by them) in connection with the supply and installation of the Facilities. Comprehensive insurance in accordance with statutory requirements.

(e) Workers' Compensation

In accordance with the statutory requirements applicable in India where the facility or any part thereof is executed.

(f) Employer's Liability

In accordance with the statutory requirements applicable in India where the facility or any part thereof is executed.

The Employer shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to GC Sub-Clause 34.1, except for the Third Party Liability, Workers' Compensation and Employer's Liability Insurances, and the Contractor's Subcontractors shall be named as co-insurers under all insurance policies taken out by the Contractor pursuant to GC Sub-Clause 34.1, except for the Cargo, Workers' Compensation and Employer's Liability Insurances. All insurer's rights of subrogation against such co-insured for losses or claims arising out of the performance of the Contract shall be waived under such policies.

Insurances to Be Taken Out By The Employer - Nil.

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Appendix 4. Time Schedule

S. No.	Area/ Description of Milestone	Duration in Months	Finish month from LOA
A.	Engineering		
1.	Basic Engineering	2	2
2.	Detailed Engineering	3	6
3.	Statutory Clearance support	6	12
4.	ROW clearance	6	12
B.	Manufacturing & Supply		
1.	Bought out items Ordering completion	2	4
2.	Manufacturing	6	12
3.	Supply at of items at Site	10	15
4.			
C.	Equipment Erection & commissioning		
1.	Opening of site office & mobilization	1	2
2.	Erection and commissioning of Transmission Lines	12	24
D.	Completion of Work		
1.	All Civil and Other Miscellaneous Works	12	18
2.	DLP Period and Final Handover	As per GCC 2	7 and PCC 27









Appendix 5. List of Major Items of Plant and Installation Services and List of Approved Subcontractors

A list of major items of Plant and Installation Services is provided below.

The following Subcontractors and/or manufacturers are approved for carrying out the items of the Facilities indicated below. Where more than one Subcontractor is listed, the Contractor is free to choose between them, but it must notify the Employer of its choice in good time prior to appointing any selected Subcontractor. In accordance with GCC Sub-Clause 19.1, the Contractor is free to submit proposals for Subcontractors for additional items from time to time. No Subcontracts shall be placed with any such Subcontractors for additional items until the Subcontractors have been approved in writing by the Employer and their names have been added to this list of Approved Subcontractors.

Major Items of Plant and Installation Services	Approved Subcontractors/Manufacturers	Nationality
Conductor, OPGW and Insulators	Must be a currently approved vendor of PGCIL for this equipment	
Transmission Line Tower	Must be a currently approved vendor of PGCIL.	
Civil Works	Subcontractor must have at least 7 years of experience in 132kV or higher voltage Transmission line works and should have successfully completed one similar work costing not less than Rs.10 crores.	



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Appendix 6. Scope of Works and Supply by the Employer

The following personnel, facilities, works and supplies will be provided/supplied by the Employer, and the provisions of GCC Clauses 10, 21 and 24 shall apply as appropriate.

All personnel, facilities, works and supplies will be provided by the Employer in good time so as not to delay the performance of the Contractor, in accordance with the approved Time Schedule and Program of Performance pursuant to GCC Sub-Clause 18.2.

Unless otherwise indicated, all personnel, facilities, works and supplies will be provided free of charge to the Contractor.

Personnel

Charge to Contractor (if any)

Nil

Facilities

Charge to Contractor (if any)

Nil

Works

Charge to Contractor (if any)

Nil

Supplies

Charge to Contractor (if any)

Nil

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Appendix 7. List of Documents for Approval or Review

Pursuant to GCC Sub-Clause 20.3.1, the Contractor shall prepare, or cause its Subcontractor to prepare, and present to the Project Manager in accordance with the requirements of GCC Sub-Clause 18.2 (Program of Performance), the following documents.

List of deliverables (indicative list)

Civil a	ANSMISSION LINE nd Electrical Drawings/Documents List to be submitted by Contractor for each
Transı	mission line separately
S.NO	DRAWINGS/DOCUMENTS TITLE
	ELECTRICAL
A	DESIGN CALCULATIONS AND DOCUMENTS
1	SAG TENSION CALCULATION
2	ELECTRICAL BOQ
В	DRAWINGS
1	STRINGING CHART
2	VENDOR DRAWINGS (CONDUCTOR, OPGW, HARDWARE FITTINGS, INSULATORS etc)
3	ERECTION KEY DIAGRAM
	CIVIL
1	DESIGN BASIS REPORT
2	CHECK SURVEY REPORT
A	DESIGN CALCULATIONS AND DOCUMENTS
1	DESIGN CALCULATION OF TOWER STRUCTURE
2	DESIGN CALCULATION OF TOWER FOUNDATION
3	TOWER ABSTRACT
4	CIVIL BOQ
5	TRANSMISSION LINE SCHEDULE
В	DRAWINGS
1	TRANSMISSION LINE PLAN AND PROFILE
2	TOWER STRUCTURAL DRAWING
3	TOWER FOUNDATION DRAWING
1	TOWER FABRICATION DRAWING
C	MISCELLANEOUS DRAWINGS
1	TOWER FOUNDATION PROTECTION, BENCHING DRAWINGS
2	TOWER EARTHING DRAWING



Appendix 8. Functional Guarantees

NOT APPLICABLE FOR TRANSMISSION LINE PACKAGE – MAY BE DELETED.







SCHEDULE - 2 : Supply and Mandatory Spare Parts for Transmission Line from Hansdiha to Jasidih Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From Hansdiha to Jasidih

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

	T T							
SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
Α	Tower, Monopole and Gantry Structure							
A1	Fabrication, Galvanizing and supply of various type of tower & Tower Parts, Gantry, Tower extensions (Complete), Stubs excluding bolts & nuts, Step bolt but including hangers, D- Shackles pack washer etc.		£					
	HT Steel	MT	202	74,000	14948000.00	18.00%	2690640.00	17638640.00
ii.	Mild Steel	MT	476	71,000	33796000.00	18.00%	6083280.00	39879280.00
A2	Supply of bolts & nuts including step bolts and spring washers	MT	40	100,000	4000000.00	18.00%	720000.00	4720000.00
A3	Fabrication, Galvanizing and Supply of various type of Monopoles, Monopole extensions (Complete), with Nuts and Bolts etc.	MT	32	130,000	4160000.00	18.00%	748800.00	4908800.00
A4	Testing Charges for Special type of towers and Monopoles (Refer Note-4 for details)	No.	2	100,000	200000.00	18.00%	36000.00	236000.00
В	EARTHING OF TOWERS							
B1	Supply of Earthing of Towers		70	0.000	222054.00	10.000/	40185.72	263439.72
	Pipe Type Earthing	Nos.	79 95	2,826 7,370	223254.00 700150.00	18.00% 18.00%	126027.00	826177.00
	Counterpoise Earthing Tower Accessories	Nos.	90	1,310	700 150.00	18.00%	120021.00	020117.00
C1.	Supply of following tower accessories					18.00%		
	Danger plate with Nuts & Bolts (1 per Tower)	Nos.	174	240	41760.00	18.00%	7516.80	49276.80
	Number plate with Nuts & Bolts (1 per Tower)	Nos.	174	240	41760.00	18.00%	7516.80	49276.80
iii.	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower)	Sets	348	240	83520.00	18.00%	15033.60	98553.60
	Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets	174	240	41760.00	18.00%	7516.80	49276.80
v.	Anti Climbing Devices with Nuts & Bolts (1 no. per Tower)	Sets	174	5,528	961872.00	18.00%	173136.96	1135008.96
vi.	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets	232	467	108344.00	18.00%	19501.92	127845.92
D	Design, manufacture and Supply of following line materials							
D1	INSULATORS & HARDWARE FITTINGS (including Insulator)							
í.	Single 'I' Suspension (145 kV Silicone composite Long Rod insulator)	Sets	392	3,881	1521352.00	18.00%	273843.36	1795195.36
ii.	Single Suspension Pilot (145 kV Silicone composite Long Rod insulator)	Sets	68	3,245	220660.00	18.00%	39718.80	260378.80
iii.	Double Suspension (145 kV Silicone composite Long Rod insulator)	Sets	98	7,762	760676.00	18.00%	136921.68	897597.68
iv.	Single Tension (145 kV Silicone composite Long Rod insulator)	Sets	98	3,947	386806.00	18.00%	69625.08	456431.08
v.	Double Tension (145 kV Silicone composite Long Rod insulator)	Sets	398	8,052	3204696.00	18.00%	576845.28	3781541.28
vi.	Single 'I' Suspension (145 kV Long Rod Porcelain insulator)	Sets	166	8,196	1360536.00	18.00%	244896.48	1605432.48
	Single Suspension Pilot (145 kV Long Rod Porcelain insulator)	Sets	28	7,560	211680.00	18.00%	38102.40	249782.40
	Double Suspension (145 kV Long Rod Porcelain insulator)	Sets	40	16,392	655680.00	18.00%	118022.40	773702.40
ix.	Single Tension (145 kV Long Rod Porcelain insulator)	Sets	40	9,486	379440.00 3252100.00	18.00% 18.00%	68299.20 585378.00	447739.20 3837478.00
х.	Double Tension (145 kV Long Rod Porcelain insulator)	Sets	170	19,130				Marketin - 1940 Research
D2	ACSR Panther for 3 Phase Double Circuit Transmission Line OPGW with jointing and termination kit complete along with	km	283	155,698	44062534.00	18.00%	7931256.12	51993790.12
D3 .	necessary hardwares and accessories as per approved specification	km	47	181,329	8522463.00	18.00%	1534043.34	10056506.34
D4	ACCESSORIES FOR CONDUCTOR (Mid Span compression joint, Repair sleeve, Vibration Damper, etc. complete)	LOT	1	625,328	625328.00	18.00%	112559.04	737887.04
Е	Supply of following Aviation Requirements						1012-22	0001500
E1	Span Markers	Nos.	10	5,792	57920.00	18.00%	10425.60	68345.60
E2	Obstruction Lights (to be provided as per IS 5613)	Sets	5	97,812	489060.00	18.00% 18.00%	88030.80	577090.80
i. ii.	1 Medium Intensity + 2 Low Intensity 1 Medium Intensity + 4 Low Intensity	Sets	5	100,386	501930.00	18.00%	90347.40	592277.40
F.	MANDATORY SPARES	23.0		1,				
F1	Line Insulators (all types) (5% of total quantity to be considered)	LOT	1	243,482	243482.00	18.00%	43826.76	287308.76
F2	Conductor Hardware fittings (5% of total quantity to be considered)	LOT	1	87,823	87823.00	18.00%	15808.14	103631.14
F3	OPGW Hardware fittings (5% of total quantity to be considered)	LOT	1	39,244	39243.83	18.00%	7063.89	46307.72
F4	Tower Accessories (5% of total quantity to be considered) MANDATORY TOOLS AND TACKLES	LOT	1	28,419	28419.00	18.00%	5115.42	33534.42
G G1	Aerial Rollers suitable for Single Panther	Nos.	10	4,798	47980.00	18.00%	8636.40	56616.40
G2	Earthwire Rollers	Nos.	5	3,427	17135.00	18.00%	3084.30	20219.30
G3	Single Sheave Pullies	Nos.	5	2,285	11425.00	18.00%	2056.50	13481.50
G4	Safety Belts	Nos.	5	1,942	9710.00	18.00%	1747.80	11457.80

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SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
	1 200 000 00000000000000000000000000000				(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
G5	Helmets	Nos.	5	228	1140.00	18.00%	205.20	1345.20
G6	First Aid Kit	Nos.	2	571	1142.00	18.00%	205.56	1347.56
G7	Tool Box	Nos.	2	3,427	6854.00	18.00%	1233.72	8087.72
G8	Drum lifting Jacks for Conductor	Sets	1	62,832	62832.00	18.00%	11309.76	74141.76
G9	Turn Table for Earthwire	Sets	1	36,557	36557.00	18.00%	6580.26	43137.26
G10	Discharge rod with cable	Nos.	2	13,709	27418.00	18.00%	4935.24	32353.24
G11	Fall arrester			-		18.00%		
i.	Mobile type	Sets	2 ·	3,351	6702.00	18.00%	1206.36	7908.36
	Retractable 6m long	Sets	2	11,704	23408.00	18.00%	4213.44	27621.44
G12	Crippling tool for GSW	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G13	Crippling tool for Conductor	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G14	Earth resistivity tester	Sets	1	12,566	12566.00	18.00%	2261.88	14827.88
Н	Emergency Restoration System (ERS)	Sets	1	27,000,000	27000000.00	18.00%	4860000.00	31860000.00
	TOTAL		-		153525837.83		27634650.81	181160488.64
			Bidder Name :			R.S. INFRAP	ROJECTS PVT. L	.TD
		Ridder Signature:						

Bidder Signature:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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	SCHEDUI	LE-3 : Design Ser	vices for Transn	nission Line from	m Hansdiha to Ja	sidih		
		Sch	edule of Quanti	ty & Prices for				
		Supply, Ins	tallation, Testin	g & Commission	ning of			
	132kV Double	Circuit Single AC	SR Panther Tra	nsmission Line	From Hansdiha	to Jasidih		
	Bid Inviting Aut	thority: General M	anager, Contrac	cts & Materials,	World Bank Fund	ded Project		
			0					
SI. No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
	DESIGN ENGINEERING charges sha	ll be included in t	ne other schedul	es. Separate pay	ment shall not be	done		
	F							
				+			-	
			1	 	 			
	TOTAL		+		 			
		<u> </u>	Bidder Name	:	R.	S. INFRAPRO	JECTS PVT. LTD).
			Bidder Signat	ure:	L	My	5	

All rates and prices shall be specified in Rs. only in accordance with ITB 18
 Bidder to consider the GST rate as applicable.

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^{3.} The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

SCHEDULE-4: Installation and Other Services for Transmission Line from Hansdiha to Jasidih

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From Hansdiha to Jasidih

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

SI. No.	Item Description	Unit	Qty	Unit Price (Rs.) without GST	Total Price (Rs.) without GST		GST Amount (Rs.)	Transport and Insurance with out GST	Transport and Insurance with GST	Total Erection Price (Rs.) with GST
	100 100 100 100 100 100 100 100 100 100				(4x5)	%	(6x7)			(6+8+10)
1	2	3	4	5	6	7	8	9	10	11
Α	Survey									
A1	Check Survey and Field Investigation (Soil Investigation and Soil resistivity measurement)	km	45	9,240	415800.00	18.00%	74844.00	0.00	0.00	490644.00
В	Work Associated with Tower Foundations			-						
B1	Excavation in various types of soils		100011-200	-						
i.	Dry Soil	Cum	3781	300	1134300.00	18.00%	204174.00	0.00	0.00	1338474.00
ii.	Wet Soil	Cum	3068	300	920400.00	18.00%	165672.00	0.00	0.00	1086072.00
iii.	WBC	Cum	1674	485	811890.00	18.00%	146140.20	0.00	0.00	958030.20
iv.	Dry Fissured Rock	Cum	1560	485	756600.00	18.00%	136188.00	0.00	0.00	892788.00
V.	Wet Fissured Rock	Cum	1089	562	612018.00	18.00%	110163.24	0.00	0.00	722181.24
B2	Concreting (Including all associated works related to foundation like benching, foundation protection, etc.)			-						
i	M 25 Grade	Cum	115	9,387	1079505.00	18.00%	194310.90	0.00	0.00	1273815.90
	M 20 Grade	Cum	1280	9,033	11562240.00	18.00%	2081203.20	0.00	0.00	13643443.20
	M 10 Grade	Cum	188	7,446	1399848.00	18.00%	251972.64	0.00	0.00	1651820.64
В3	Supply and placement of reinforcement steel (Fe500) including installation of stub	МТ	116	69,531	8065596.00	18.00%	1451807.28	0.00	0.00	9517403.28
B4	Pilling work for tower in case of marshy, low bearing soils locations and/or special towers, where shallow foundation could not be adopted (No. of Tower locations) (Please refer Vol-II, Chapter - 8, Tower foundation, Erection, Stringing & Commissioning of line, Supply of towers, Accessories & Fasteners, Clause 14. Special Foundation, Table-4)	Nos.	2	100,000	200000.00	18.00%	36000.00	0.00	0.00	236000.00
С	Work Associated with Tower Erection									
C1	Erection of various type of towers, Gantry, tower parts and tower extension (Complete) with bolts and nuts, Stub including tack welding and supply and application of zinc rich primer and two coats of enamel paint									10
17	Normal Towers and Gantry	MT	718	6,930	4975740.00	18.00%	895633.20	0.00	0.00	5871373.20
C2	Erection of various type of Monopoles, Monopole extensions (Complete), with Nuts and Bolts etc.			-						
	Monopoles and Monopole Extensions	MT	32	15,400	492800.00	18.00%	88704.00	0.00	0.00	581504.00
D	Installation of Earthing of tower including Earth Resistance Measurement and report submission			-						
I.	Pipe type Earthing	Nos.	79	1,848	145992.00	18.00%	26278.56	0.00	0.00	172270.56
	Counterpoise Earthing	Nos.	95	4,620	438900.00	18.00%	79002.00	0.00	0.00	517902.00
	Installation of the following tower accessories			-				0.00	0.00	
	Danger plate with Nuts & Bolts (1 per Tower)	Nos.	174	77	13398.00	18.00%	2411.64	0.00	0.00	15809.64
ii.	Number plate with Nuts & Bolts (1 per Tower)	Nos.	174	77	13398.00	18.00%	2411.64	0.00	0.00	15809.64
III.	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower)	Sets.	348	77	26796.00	18.00%	4823.28	0.00	0.00	31619.28
iv.	Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets.	174	77	13398.00	18.00%	2411.64	0.00	0.00	15809.64
	Anti Climbing Devices with Nuts & Bolts (1 no. per Tower)	Sets.	174	2,310	401940.00	18:00%	72349.20	0.00	0.00	474289.20
	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets.	232	77	17864.00	18.00%	3215.52	0.00	0.00	21079.52
F	Installation of Line Insulator, Conductor and OPGW			-			7 .			
F1	Installation of insulator strings complete with arcing horns & necessary hardware and fittings, installing & stringing of conductor including fixing of conductor accessories	km	45	84,700	3811500.00	18.00%	686070.00	0.00	0.00	4497570.00
	Installation & stringing of OPGW with jointing and termination kit complete along with necessary hardwares and accessories as per approved specification including jointing, fixing of OPGW	km	45	30,800	1386000.00	18.00%	249480.00	0.00	0.00	1635480.00

6965266.14 R.S. INFRAPROJECTS PVT, LTD. 45661189.14

Bidder Signature:

Bidder Name:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

TOTAL

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

accessories, etc.

3. Bidder to consider the GST rate as applicable.
4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.







	SCHEDULE-5: Grand Summary for Transmission Line from	Hansdiha to Jasidih			
	Schedule of Quantity & Prices for				
	Supply, Installation, Testing & Commissioni	ng of			
	132kV Double Circuit Single ACSR Panther Transmission Line F	rom Hansdiha to Jasidih			
	Bid Inviting Authority: General Manager, Contracts & Materials, W	orld Bank Funded Project			
	0				
SI. No.	Description	Amount (in F	Rs.)		
31. 140.	Description	Total			
			NO THE STATE OF TH		
1	Total Supply Price excluding GST (Rs.)-Schedule No. 2	153,525,837.83			
2	Total Design service excluding GST (Rs.)-Schedule No. 3	0.00			
3	Total Erection, transport and insurance Price excluding GST (Rs.)-Schedule No.	38,695,923.	00		
	Grand Total	192,221,760	.83		
		Bidder Name : R.S. INFRAI LTD. Bidder Signature:	PROJECTS PVT.		

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.







SCHEDULE-6: Recommended Spare Parts from Hansdiha to Jasidih

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From Hansdiha to Jasidih

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

SI. No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GS
	0.0-4				(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
					0		0	0
					0	W. 1000 - 1000 - 1000	0	0
					0		0	0
					0		0	0
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					0		0	0
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					0		0	0
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					0		0	0
					0		0	0
					0	0.500	0	0
					0		0	0
					0		0	0
					0		0	0
				122	0		0	0
	Total				0		0	0
			Bidder Name :		R	.S. INFRAPRO	JECTS PVT. LTD	•
			I		1.1.00			

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

Bidder to consider the GST rate as applicable.
 This schedule will not be included for bid evaluation purpose.

SCHEDULE - 2 : Supply and Mandatory Spare Parts for Transmission Line from LILO of Jamtara - Madhupur at Narayanpur (LILO-1)

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From LILO of Jamtara - Madhupur at Narayanpur (LILO-1)

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

NIT No.

SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs with GST
	2	3	4	5	(4x5) 6	% 7	(6x7) 8	(6+8) 9
1 A	Tower, Monopole and Gantry Structure	-3-1	4				•	-
A1	Tower Parts, Gantry, Tower extensions (Complete), Stubs excluding bolts & nuts, Step bolt but including hangers, D-Shackles pack washer etc.							
	HT Steel	MT	73		5402000.00	18.00%	972360.00	6374360.00
ii.	Mild Steel	MT	171	71,000	12141000.00	18.00%	2185380.00	14326380.00
A2	Supply of bolts & nuts including step bolts and spring washers Fabrication, Galvanizing and Supply of various type of Monopoles,	MT	13	100,000	1300000.00	18.00%	234000.00	1534000.00
A3	Monopole extensions (Complete), with Nuts and Bolts etc.	MT	32	130,000	4160000.00	18.00%	748800.00	4908800.00
A4 B	Testing Charges for Special type of towers and Monopoles (Refer Note-4 for details) EARTHING OF TOWERS	No.	2	100,000	200000.00	18.00%	36000.00	236000.00
B1	Supply of Earthing of Towers			1				
	Pipe Type Earthing	Nos.	26	2,826	73476.00	18.00%	13225.68	86701.68
	Counterpoise Earthing	Nos.	31	7,370	228470.00	18.00%	41124.60	269594.60
C	Tower Accessories					18.00%		
C1	Supply of following tower accessories Danger plate with Nuts & Bolts (1 per Tower)	Nos.	57	240	13680.00	18.00% 18.00%	2462.40	16142.40
	Number plate with Nuts & Bolts (1 per Tower)	Nos.	57	240	13680.00	18.00%	2462.40	16142.40
	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower)	Sets	114	240	27360.00	18.00%	4924.80	32284.80
	Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets	57	240	13680.00	18.00%	2462.40	16142.40
	Anti Climbing Devices with Nuts & Bolts (1 no. per Tower)	Sets	57	5,528	315096.00	18.00%	56717.28	371813.28
vi.	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets	54	467	25218.00	18.00%	4539.24	29757.24
D	Design, manufacture and Supply of following line materials							00.50
D1	INSULATORS & HARDWARE FITTINGS (including Insulator)							
i.	Single 'I' Suspension (145 kV Silicone composite Long Rod insulator)	Sets	94	3,881	364814.00	18.00%	65666.52	430480.52
ii.	Single Suspension Pilot (145 kV Silicone composite Long Rod insulator) Double Suspension (145 kV Silicone composite Long Rod	Sets	34	3,245	110330.00	18.00%	19859.40	130189.40
lii.	insulator)	Sets	22	7,762	170764.00	18.00%	30737.52	201501.52
_	Single Tension (145 kV Silicone composite Long Rod insulator)	Sets	52	3,947	205244.00	18.00%	36943.92	242187.92
700	Double Tension (145 kV Silicone composite Long Rod insulator)	Sets	210	8,052	1690920.00	18.00%	304365.60	1995285.60
vi.	Single 'I' Suspension (145 kV Long Rod Porcelain insulator)	Sets	38	8,196	311448.00	18.00%	56060.64	367508.64
vii.	Single Suspension Pilot (145 kV Long Rod Porcelain insulator)	Sets	14	7,560	105840.00	18.00%	19051.20	124891.20
viii.	Double Suspension (145 kV Long Rod Porcelain insulator)	Sets	8	16,392	131136.00	18.00%	23604.48	154740.48
		Sets	20	9,486	189720.00	18.00%	34149.60	223869.60
х.	Double Tension (145 kV Long Rod Porcelain insulator)	Sets	90	19,130	1721700.00	18.00%	309906.00	2031606.00
D2	ACSR Panther for 3 Phase Double Circuit Transmission Line OPGW with jointing and termination kit complete along with	km	79	155,698	12300142.00	18.00%	2214025.56	14514167.56
D3	necessary hardwares and accessories as per approved specification	km	13	181,329	2357277.00	18.00%	424309.86	2781586.86
D4	ACCESSORIES FOR CONDUCTOR (Mid Span compression joint, Repair sleeve, Vibration Damper, etc. complete)	LOT	1	625,328	625328.00	18.00%	112559.04	737887.04
	Supply of following Aviation Requirements	N	40	5 700	F7000 00	40.0004	10405.00	00045.00
	Span Markers Obstruction Lights (to be provided as per IS 5613)	Nos.	10	5,792	57920.00	18.00% 18.00%	10425.60	68345.60
i.	1 Medium Intensity + 2 Low Intensity	Sets	5	97,812	489060.00	18.00%	88030.80	577090.80
ii.	1 Medium Intensity + 4 Low Intensity	Sets	5	100,386	501930.00	18.00%	90347.40	592277.40
	MANDATORY SPARES	LOT	1	242 492	243482.00	18.00%	43826.76	287308.76
F1 F2	Line Insulators (all types) (5% of total quantity to be considered) Conductor Hardware fittings (5% of total quantity to be	LOT	1	243,482 87,823	87823.00	18.00%	15808.14	103631.14
-2 -3	considered) OPGW Hardware fittings (5% of total quantity to be considered)	LOT	' 1	39,244	39243.83	18.00%	7063.89	46307.72
F4 G	Tower Accessories (5% of total quantity to be considered) MANDATORY TOOLS AND TACKLES	LOT	1	28,419	28419.00	18.00%	5115.42	33534.42
	Aerial Rollers suitable for Single Panther	Nos.	10	4,798	47980.00	18.00%	8636.40	56616.40
	Earthwire Rollers	Nos.	5	3,427	17135.00	18.00%	3084.30	20219.30
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SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
				1	(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
G3	Single Sheave Pullies	Nos.	5	2,285	11425.00	18.00%	2056.50	13481.50
G4	Safety Belts	Nos.	5	1,942	9710.00	18.00%	1747.80	11457.80
G5	Helmets	Nos.	. 5	228	1140.00	18.00%	205.20	1345.20
G6	First Aid Kit	Nos.	2	571	1142.00	18.00%	205.56	1347.56
G7	Tool Box	Nos.	2	3,427	6854.00	18.00%	1233.72	8087.72
G8	Drum lifting Jacks for Conductor	Sets	1	62,832	62832.00	18.00%	11309.76	74141.76
G9	Turn Table for Earthwire	Sets	1	36,557	36557.00	18.00%	6580.26	43137.26
G10	Discharge rod with cable	Nos.	2	13,709	27418.00	18.00%	4935.24	32353.24
G11	Fall arrester			-		18.00%		
i.	Mobile type	Sets	2	3,351	6702.00	18.00%	1206.36	7908.36
	Retractable 6m long	Sets	2	11,704	23408.00	18.00%	4213.44	27621.44
G12	Crippling tool for GSW	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G13	Crippling tool for Conductor	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G14	Earth resistivity tester	Sets	1	12,566	12566.00	18.00%	2261.88	14827.88
Н	Emergency Restoration System (ERS)	Sets	0	27,000,000	0.00	18.00%	0.00	0.00
	TOTAL				46253789.83		8325682.17	54579472.00
			Bidder Name :			R.S. INFRA	PROJECTS PVT.	LTD.
			Bidder Signati	ure:		1.6	ec.	And Area of

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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	SCHEDULE-3 : Design Service	es for Transm	ission Line fron	n LILO of Jamta	ara - Madhupur a	t Narayanpur (LILO-1)	3331 - CH ESSTADOS O EN A C.
		Sch	edule of Quanti	ty & Prices for				
		Supply, Inst	allation, Testin	g & Commission	ning of			
	132kV Double Circuit Single ACSR	R Panther Tran	smission Line	From LILO of J	amtara - Madhup	ur at Narayanı	pur (LILO-1)	
	Bid Inviting Authori	ity: General M	anager, Contra	ts & Materials,	World Bank Fund	ded Project		1.58
			NIT No).				
SI. No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
	DESIGN ENGINEERING charges shall be	included in th	ne other schedul	es. Separate pay	ment shall not be	done	1903 - E	
		V						
			ļ					
	TOTAL		4	<u>L</u>	11			
			Bidder Name	:	R.	S. INFRAPRO	JECTS PVT. LTD	•
	v.		Bidder Signat	ure:	a	the	el "	



NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. Bidder to consider the GST rate as applicable.

^{3.} The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

SCHEDULE-4: Installation and Other Services for Transmission Line from LILO of Jamtara - Madhupur at Narayanpur (LILO-1)

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From LILO of Jamtara - Madhupur at Narayanpur (LILO-1)

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

SI. No.	Item Description	Unit	Qty	Unit Price (Rs.) without GST	Total Price (Rs.) without GST		GST Amount (Rs.)	Transport and Insurance with out GST	Transport and Insurance with GST	Total Erection Price (Rs.) with GST
1000					(4x5)	%	(6x7)			(6+8+10)
1	2	3	4	5	6	7	8	9	10	11
A	Survey									
A1	Check Survey and Field Investigation (Soil Investigation and Soil resistivity measurement)	km	13	9,240	120120.00	18.00%	21621.60	0.00	0.00	141741.60
В	Work Associated with Tower Foundations			-	710/5/00/2016/17					
B1	Excavation in various types of soils								444	
i.	Dry Soil -	Cum	1424	300	427200.00	18.00%	76896.00	0.00	0.00	504096.00
ii.	Wet Soil	Cum	1109	300	332700.00	18.00%	59886.00	0.00	0.00	392586.00
	WBC	Cum	602	485	291970.00	18.00%	52554.60	0.00	0.00	344524.60
iv.	Dry Fissured Rock	Cum	620	485	300700.00	18.00%	54126.00	0.00	0.00	354826.00
٧.	Wet Fissured Rock	Cum	423	562	237726.00	18.00%	42790.68	0.00	0.00	280516.68
B2	Concreting (Including all associated works related to foundation like benching, foundation protection, etc.)			-						4070045.00
	M 25 Grade	Cum	115	9,387	1079505.00	18.00%	194310.90	0.00	0.00	1273815.90 4988383.92
	M 20 Grade	Cum	468	9,033	4227444.00	18.00%	760939.92	0.00	0.00	702902.40
iii.	M 10 Grade	Cum	80	7,446	595680.00	18.00%	107222.40	0.00	0.00	702902.40
В3	Supply and placement of reinforcement steel (Fe500) including installation of stub	MT	51	69,531	3546081.00	18.00%	638294.58	0.00	0.00	4184375.58
B4	Pilling work for tower in case of marshy, low bearing soils locations and/or special towers, where shallow foundation could not be adopted (No. of Tower locations) (Please refer Vol-II, Chapter - 8, Tower foundation, Erection, Stringing & Commissioning of line, Supply of towers, Accessories & Fasteners, Clause 14. Special Foundation, Table-4)	Nos.	2	100,000	200000.00	18.00%	36000.00	0.00	0.00	236000.00
С	Work Associated with Tower Erection									
C1	Erection of various type of towers, Gantry, tower parts and tower extension (Complete) with bolts and nuts, Stub including tack welding and supply and application of zinc rich primer and two coats of enamel paint			-				0	10	3
10000	Normal Towers and Gantry	MT	257	6,930	1781010.00	18.00%	320581.80	0.00	0.00	2101591.80
C2	Erection of various type of Monopoles, Monopole extensions (Complete), with Nuts and Bolts etc.			-						
MAN NOTES	Monopoles and Monopole Extensions	MT	32	15,400	492800.00	18.00%	88704.00	0.00	0.00	581504.00
D	Installation of Earthing of tower including Earth Resistance Measurement and report submission			-						
I.	Pipe type Earthing	Nos.	26	1,848	48048.00	18.00%	8648.64	0.00	0.00	56696.64
ii.	Counterpoise Earthing	Nos.	31	4,620	143220.00	18.00%	25779.60	0.00	0.00	168999.60
E	Installation of the following tower accessories			-				0.00	0.00	
i.	Danger plate with Nuts & Bolts (1 per Tower)	Nos.	57	77	4389.00	18.00%	790.02	0.00	0.00	5179.02
ii.	Number plate with Nuts & Bolts (1 per Tower)	Nos.	57	77	4389.00	18.00%	790.02	0.00	0.00	5179.02
Hi.	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower)	Sets.	114	77	8778.00	18.00%	1580.04	0.00	0.00	10358.04
	Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets.	57	77	4389.00	18.00%	790.02	0.00	0.00	5179.02
	Anti Climbing Devices with Nuts & Bolts (1 no. per Tower)	Sets.	57	2,310	131670.00	18.00%	23700.60	0.00	0.00	155370.60
vi.	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets.	54	77	4158.00	18.00%	748.44	0.00	0.00	4906.44
F	Installation of Line Insulator, Conductor and OPGW									
F1	Installation of insulator strings complete with arcing horns & necessary hardware and fittings, installing & stringing of conductor including fixing of conductor accessories	km	13	84,700	1101100.00	18.00%	198198.00	0.00	0.00	1299298.00
F2	Installation & stringing of OPGW with jointing and termination kit complete along with necessary hardwares and accessories as per approved specification including jointing, fixing of OPGW accessories, etc.	km	.13	30,800	400400.00	18.00%	72072.00	0.00	0.00	472472.00
			-		45400177.00		0707005.00	0.00	0.00	18270502.86
	TOTAL				15483477.00		2787025.86	0.00		102/0002.00
			Bidder Nam	e:			R.S. INFRAF	ROJECTS PV	I. LTD.	
			Bidder Sign	ature:		11	and	, 1		

NOTE

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

^{3.} Bidder to consider the GST rate as applicable.
4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.







^{1.} All rates and prices shall be specified in Rs. only in accordance with ITB 18
2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change 2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) //Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no addeduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for shall be made from the lump sum price due to such reduction of quantities.

**Note: The property of the bidder of the property of the property of the property of the property of the bidder of the property of the property of the bidder of the property of the bidder of the property of the property of the bidder of the property of the property of the property of the bidder of the property of the property of the property of the bidder of the property of the property of the bidder of the property of the property of the property of the property of the bidder of the property of the property of the property of the bidder of the property of the property of the bidder of the property of the bidder

SCHEDULE-5: Grand Summary for Transmission Line from LILO of Jamtara - Madhupur at Narayanpur (LILO-1) Schedule of Quantity & Prices for Supply, Installation, Testing & Commissioning of 132kV Double Circuit Single ACSR Panther Transmission Line From LILO of Jamtara - Madhupur at Narayanpur (LILO-1) Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project NIT No. Amount (in Rs.) SI. No. Description Total Total Supply Price excluding GST (Rs.)-Schedule No. 2 46,253,789.83 2 Total Design service excluding GST (Rs.)-Schedule No. 3 0.00 Total Erection, transport and insurance Price excluding GST (Rs.)-Schedule No. 3 15,483,477.00 61,737,266.83 **Grand Total** R.S. INFRAPROJECTS PVT. Bidder Name: LTD. Bidder Signature:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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SCHEDULE-6: Recommended Spare Parts from LILO of Jamtara - Madhupur at Narayanpur (LILO-1)

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From LILO of Jamtara - Madhupur at Narayanpur (LILO-1)

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

NIT No.

SI. No. Description	Unit 3	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST (4x5) 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	% 7	GST Amount (Rs.) (6x7) 8 0 0 0 0 0 0 0 0 0 0 0 0	Total Price (Rs.) with GST (6+8) 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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	3	4	5	0 0 0 0 0 0 0 0 0 0	7	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
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Total				0		0	0
Total		Bidder Name :			.S. INFRAPRO		

Bidder Signature:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. Bidder to consider the GST rate as applicable.

3. This schedule will not be included for bid evaluation purpose.

SCHEDULE - 2 : Supply and Mandatory Spare Parts for Transmission Line from LILO of Jamtara - Madhupur at Narayanpur (LILO-2)

Schedule of Quantity & Prices for Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From LILO of Jamtara - Madhupur at Narayanpur (LILO-2)

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

	Bid Inviting Authority: General		NIT No.					
SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
Α	Tower, Monopole and Gantry Structure							
A1	Fabrication, Galvanizing and supply of various type of tower & Tower Parts, Gantry, Tower extensions (Complete), Stubs excluding bolts & nuts, Step bolt but including hangers, D-Shackles pack washer etc.					10.000/	1005010.00	0700040.00
I.	HT Steel Mild Steel	MT MT	77 177	74,000	5698000.00 12567000.00	18.00% 18.00%	1025640.00 2262060.00	6723640.00 14829060.00
11/2						600 00000	The second secon	
A2	Supply of bolts & nuts including step bolts and spring washers	MT	13	100,000	1300000.00	18.00%	234000.00	1534000.00
А3	Fabrication, Galvanizing and Supply of various type of Monopoles, Monopole extensions (Complete), with Nuts and Bolts etc.	МТ	32	130,000	4160000.00	18.00%	748800.00	4908800.00
A4	Testing Charges for Special type of towers and Monopoles (Refer Note-4 for details)	No.	2	100,000	200000.00	18.00%	36000.00	236000.00
B	EARTHING OF TOWERS							
B1	Supply of Earthing of Towers Pipe Type Earthing	Nos.	26	2,826	73476.00	18.00%	13225.68	86701.68
	Counterpoise Earthing	Nos.	30	7,370	221100.00	18.00%	39798.00	260898.00
C	Tower Accessories	. 100.	- 50	7,570		18.00%	22.30.00	
C1	Supply of following tower accessories			The state of the s		18.00%		10 0000 W
	Danger plate with Nuts & Bolts (1 per Tower)	Nos.	_56	240	13440.00	18.00%	2419.20	15859.20
	Number plate with Nuts & Bolts (1 per Tower)	Nos.	56	240	13440.00	18.00%	2419.20	15859.20
10.	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower)	Sets	112	240,	26880.00	18.00%	4838.40	31718.40
	Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets	56	240	13440.00	18.00%	2419.20	15859.20
	Anti Climbing Devices with Nuts & Bolts (1 no. per Tower)	Sets	56	5,528	309568.00	18.00%	55722.24	365290.24
	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets	32	467	14944.00	18.00%	2689.92	17633.92
D	Design, manufacture and Supply of following line materials							
D1	INSULATORS & HARDWARE FITTINGS (including Insulator)							
i.	Single 'l' Suspension (145 kV Silicone composite Long Rod insulator)	Sets	56	3,881	217336.00	18.00%	39120.48	256456.48
II.	Single Suspension Pilot (145 kV Silicone composite Long Rod insulator)	Sets	34	3,245	110330.00	18.00%	19859.40	130189.40
ili.	Double Suspension (145 kV Silicone composite Long Rod insulator)	Sets	14	7,762	108668.00	18.00%	19560.24	128228.24
	Single Tension (145 kV Silicone composite Long Rod insulator)	Sets	68	3,947	268396.00	18.00%	48311.28	316707.28
	Double Tension (145 kV Silicone composite Long Rod insulator)	Sets	278	8,052	2238456.00	18.00%	402922.08	2641378.08
vi.	Single 'I' Suspension (145 kV Long Rod Porcelain insulator)	Sets	22	8,196	180312.00	18.00%	32456.16	212768.16
	Single Suspension Pilot (145 kV Long Rod Porcelain insulator)	Sets	14	7,560	105840.00	18.00%	19051.20	124891.20
viii.		Sets	4	16,392	65568.00	18.00%	11802.24	77370.24
	Single Tension (145 kV Long Rod Porcelain insulator)	Sets Sets	28	9,486	265608.00	18.00%	47809.44	313417.44
D2	Double Tension (145 kV Long Rod Porcelain insulator) ACSR Panther for 3 Phase Double Circuit Transmission Line	km	118 83	155,698	2257340.00 12922934.00	18.00%	406321.20 2326128.12	2663661.20 15249062.12
D3	OPGW with jointing and termination kit complete along with necessary hardwares and accessories as per approved specification	km	14	181,329	2538606.00	18.00%	456949.08	2995555.08
D4	ACCESSORIES FOR CONDUCTOR (Mid Span compression joint, Repair sleeve, Vibration Damper, etc. complete)	LOT	1	625,328	625328.00	18.00%	112559.04	737887.04
E E1	Supply of following Aviation Requirements	Nos.	10	5,792	57920.00	18.00%	10425.60	68345.60
	Span Markers Obstruction Lights (to be provided as per IS 5613)	1105.	10	3,192	31320.00	18.00%	10420.00	00040.00
i.	1 Medium Intensity + 2 Low Intensity	Sets	5	97,812	489060.00	18.00%	88030.80	577090.80
ii.	1 Medium Intensity + 4 Low Intensity	Sets	5	100,386	501930.00	18.00%	90347.40	592277.40
F	MANDATORY SPARES							007000 70
F1	Line Insulators (all types) (5% of total quantity to be considered) Conductor Hardware fittings (5% of total quantity to be	LOT	1	243,482	243482.00	18.00%	43826.76	287308.76
F2	considered)	LOT	1	87,823	87823.00	18.00%	15808.14	103631.14
	OPGW Hardware fittings (5% of total quantity to be considered)	LOT	1	39,244	39243.83	18.00%	7063.89	46307.72
F3	Tower Accessories (5% of total quantity to be considered)	LOT	1	28 /10	28419 nn I	18 00%	5115 42	33534 42
F4 G G1	Tower Accessories (5% of total quantity to be considered) MANDATORY TOOLS AND TACKLES Aerial Rollers suitable for Single Panther	LOT Nos.	10	28,419	28419.00 47980.00	18.00%	5115.42 8636.40	33534.42 56616.40

SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
		1	1		(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
G3	Single Sheave Pullies	Nos.	5	2,285	11425.00	18.00%	2056.50	13481.50
G4	Safety Belts	Nos.	5	1,942	9710.00	18.00%	1747.80	11457.80
G5	Helmets	Nos.	5	228	1140.00	18.00%	205.20	1345.20
G6	First Aid Kit	Nos.	2	571	1142.00	18.00%	205.56	1347.56
G7	Tool Box	Nos.	2	3,427	6854.00	18.00%	1233.72	8087.72
G8	Drum lifting Jacks for Conductor	Sets	1	62,832	62832.00	18.00%	11309.76	74141.76
G9	Turn Table for Earthwire	Sets	1	36,557	36557.00	18.00%	6580.26	43137.26
G10	Discharge rod with cable	Nos.	2	13,709	27418.00	18.00%	4935.24	32353.24
G11	Fall arrester	1		-		18.00%		
i.	Mobile type	Sets	2	3,351	6702.00	18.00%	1206.36	7908.36
	Retractable 6m long	Sets	2	11,704	23408.00	18.00%	4213.44	. 27621.44
G12	Crippling tool for GSW	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G13	Crippling tool for Conductor	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G14	Earth resistivity tester	Sets	1	12,566	12566.00	18.00%	2261.88	14827.88
Н	Emergency Restoration System (ERS)	Sets	0	27,000,000	0.00	18.00%	0.00	0.00
	TOTAL	+			48571476.83		8742865.83	57314342.66
			Bidder Name :	- to		R.S. INFRA	PROJECTS PVT.	LTD.
			Bidder Signatu	ire:	1	less	ds:	

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

	SCHEDULE-3 : Design Se	rvices for Transn	nission Line fror	n LILO of Jamta	ara - Madhupur a	t Narayanpur	(LILO-2)	
		Scl	nedule of Quant	ity & Prices for				
		Supply, Ins	tallation, Testin	g & Commission	ning of			-14
	132kV Double Circuit Single A	CSR Panther Tra	nsmission Line	From LILO of J	amtara - Madhup	ur at Narayan	pur (LILO-2)	
	Bid Inviting Au	thority: General N	lanager, Contra	cts & Materials,	World Bank Fun	ded Project	- 	
			NIT No	э.				
SI. No.	Description	Unit	Qty.	Unit Price	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
D	ESIGN ENGINEERING charges sha	ll be included in t	he other schedul	les. Separate pay	ment shall not be	e done		
								-
	TOTAL						-	
	TOTAL	Management of the	Did to No.			C INFRARRO	JECTS PVT. LTD	
			Bidder Name		, R	.5. INFRAPRO	JECIS PVI. LIL	<i>,</i> .
			Bidder Signat	ture:	4	June	3	
NOTE								
	prices shall be specified in Rs. only in	accordance with	ITB 18					-
Bidder to co	nsider the GST rate as applicable.						20	

3. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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SCHEDULE-4: Installation and Other Services for Transmission Line from LILO of Jamtara - Madhupur at Narayanpur (LILO-2)

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From LILO of Jamtara - Madhupur at Narayanpur (LILO-2)

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

				NIT No.						,
SI. No.	Item Description	Unit	Qty	Unit Price (Rs.) without GST	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Transport and Insurance with out GST	Transport and Insurance with GST	Total Erection Pric (Rs.) with GST
					(4x5)	%	(6x7)			(6+8+10)
1	2	3	4	5	6	7	8	9	10	11
Α	Survey									
	Check Survey and Field Investigation (Soil Investigation and	km	13	0.040	120120.00	18.00%	21621.60	0.00	0.00	141741.60
A1	Soil resistivity measurement)	Km	13	9,240	120120.00	18.00%	21021.00	0.00	0.00	141741.00
	Work Associated with Tower Foundations			-						
	Excavation in various types of soils			-						
	Dry Soil	Cum	1520	300	456000.00	18.00%	82080.00	0.00	0.00	538080.00
	Wet Soil	Cum	1207	300	362100.00	18.00%	65178.00	0.00	0.00	427278.00
	WBC	Cum	653	485	316705.00	18.00%	57006.90	0.00	0.00	373711.90
	Dry Fissured Rock	Cum	714	485	346290.00	18.00%	62332.20	0.00	0.00	408622.20
٧.	Wet Fissured Rock	Cum	480	562	269760.00	18.00%	48556.80	0.00	0.00	318316.80
B2	Concreting (Including all associated works related to foundation			-	•	l i				
	like benching, foundation protection, etc.)	0	115	9,387	1079505.00	18.00%	194310.90	0.00	0.00	1273815.90
	M 25 Grade M 20 Grade	Cum	115 511	9,387	4615863.00	18.00%	830855.34	0.00	0.00	5446718.34
	M 10 Grade	Cum	86	7,446	640356.00	18.00%	115264.08	0.00	0.00	755620.08
	Supply and placement of reinforcement steel (Fe500) including				Contract of the Contract of th					
В3	installation of stub	MT	54	69,531	3754674.00	18.00%	675841.32	0.00	0.00	4430515.32
В4	Pilling work for tower in case of marshy, low bearing soils locations and/or special towers, where shallow foundation could not be adopted (No. of Tower locations) (Please refer Vol-II, Chapter - 8, Tower foundation, Erection, Stringing & Commissioning of line, Supply of towers, Accessories & Fasteners, Clause 14. Special Foundation, Table-4)	Nos.	2	100,000	200000.00	18.00%	36000.00	0.00	0.00	236000.00
С	Work Associated with Tower Erection		1	-						
C1	Erection of various type of towers, Gantry, tower parts and tower extension (Complete) with bolts and nuts, Stub including tack welding and supply and application of zinc rich primer and two coats of enamel paint			-						
	Normal Towers and Gantry	MT	267	6,930	1850310.00	18.00%	333055.80	0.00	0.00	2183365.80
C2	Erection of various type of Monopoles, Monopole extensions (Complete), with Nuts and Bolts etc.			-						
10000	Monopoles and Monopole Extensions	MT	32	15,400	492800.00	18.00%	88704.00	0.00	0.00	581504.00
	Installation of Earthing of tower including Earth Resistance Measurement and report submission	11		-						
	Pipe type Earthing	Nos.	26	1,848	48048.00	18.00%	8648.64	0.00	0.00	56696.64
	Counterpoise Earthing	Nos.	30	4,620	138600.00	18.00%	24948.00	0.00	0.00	163548.00
	Installation of the following tower accessories			-				0.00	0.00	
	Danger plate with Nuts & Bolts (1 per Tower)	Nos.	56	77	4312.00	18.00%	776.16	0.00	0.00	5088.16
ii.	Number plate with Nuts & Bolts (1 per Tower)	Nos.	56	77	4312.00	18.00%	776.16	0.00	0.00	5088.16
	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower)	Sets.	112	77	8624.00	18.00%	1552.32	0.00	0.00	10176.32
	Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets.	56	77	4312.00	18.00%	776.16	0.00	0.00	5088.16
	Anti Climbing Devices with Nuts & Bolts (1 no. per Tower)	Sets.	56	2,310	129360.00	18.00%	23284.80	0.00	0.00	152644.80
vi.	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets.	32	77	2464.00	18.00%	443.52	0.00	0.00	2907.52
F	Installation of Line Insulator, Conductor and OPGW			-					10	
F1	Installation of insulator strings complete with arcing horns & necessary hardware and fittings, installing & stringing of conductor including fixing of conductor accessories	km	13	84,700	1101100.00	18.00%	198198.00	0.00	0.00	1299298.00
F2	Installation & stringing of OPGW with jointing and termination kit complete along with necessary hardwares and accessories as per approved specification including jointing, fixing of OPGW accessories, etc.	km	13	30,800	400400.00	18.00%	72072.00	0.00	0.00	472472.00
										1000000
(10-0010) Seria	TOTAL				16346015.00		2942282.70	0.00	0.00	19288297.70
			Bidder Name	:			R.S. INFRAP	ROJECTS PVT	. LTD.	
							, ,			
			Bidder Signa	ture:		Lla	in a			

NOTE

^{3.} Bidder to consider the GST rate as applicable.
4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.







^{1.} All rates and prices shall be specified in Rs. only in accordance with ITB 18
2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or between the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

SCHEDULE-5: Grand Summary for Transmission Line from LILO of Jamtara - Madhupur at Narayanpur (LILO-2) Schedule of Quantity & Prices for Supply, Installation, Testing & Commissioning of 132kV Double Circuit Single ACSR Panther Transmission Line From LILO of Jamtara - Madhupur at Narayanpur (LILO-2) Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project NIT No. Amount (in Rs.) SI. No. Description Total Total Supply Price excluding GST (Rs.)-Schedule No. 2 48,571,476.83 1 2 Total Design service excluding GST (Rs.)-Schedule No. 3 0.00 Total Erection, transport and insurance Price excluding GST (Rs.)-Schedule No. 3 16,346,015.00 **Grand Total** 64,917,491.83 Bidder Name : R.S. INFRAPROJECTS PVT. I TD Bidder Signature:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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SCHEDULE-6: Recommended Spare Parts from LILO of Jamtara - Madhupur at Narayanpur (LILO-2)

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From LILO of Jamtara - Madhupur at Narayanpur (LILO-2)

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

NIT No.

SI. No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GS
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
•					0		0	0
******				-	0		0	0
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					0		0	0
					0			
	Total			1	1 ()		0	0

Bidder Signature:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18
2. Bidder to consider the GST rate as applicable.
3. This schedule will not be included for bid evaluation purpose.

SCHEDULE - 2 : Supply and Mandatory Spare Parts for Transmission Line from S/C LILO of Lalmatia-Dumka Tr. Line at Hansdiha Schedule of Quantity & Prices for Supply, Installation, Testing & Commissioning of 132kV Double Circuit Single ACSR Panther Transmission Line From S/C LILO of Lalmatia-Dumka Tr. Line at Hansdiha

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

NIT No.

SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
Α	Tower, Monopole and Gantry Structure			-				
A1	Fabrication, Galvanizing and supply of various type of tower & Tower Parts, Gantry, Tower extensions (Complete), Stubs excluding bolts & nuts, Step bolt but including hangers, D-Shackles pack washer etc.							-
	HT Steel	MT	36	74,000		18.00%	479520.00	3143520.00
11.	Mild Steel	MT	86	71,000	6106000.00	18.00%	1099080.00	7205080.00
A2	Supply of bolts & nuts including step bolts and spring washers	MT	6	100,000	600000.00	18.00%	108000.00	708000.00
А3	Fabrication, Galvanizing and Supply of various type of Monopoles, Monopole extensions (Complete), with Nuts and Bolts etc.	МТ	0	130,000	0.00	18.00%	0.00	0.00
A4	Testing Charges for Special type of towers and Monopoles (Refer Note-4 for details)	No.	2	100,000	200000.00	18.00%	36000.00	236000.00
B	EARTHING OF TOWERS			+				
B1 i	Supply of Earthing of Towers Pipe Type Earthing	Nos.	10	2,826	28260.00	18.00%	5086.80	33346.80
	Counterpoise Earthing	Nos.	11	7,370	81070.00	18.00%	14592.60	95662.60
С	Tower Accessories					18.00%		
C1	Supply of following tower accessories			0:2	5040.00	18.00%	007.00	5047.00
	Danger plate with Nuts & Bolts (1 per Tower)	Nos.	21	240	5040.00	18.00%	907.20 907.20	5947.20 5947.20
777	Number plate with Nuts & Bolts (1 per Tower)	Nos.	21 42	240	5040.00 10080.00	18.00% 18.00%	1814.40	11894.40
	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower) Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets Sets	21	240	5040.00	18.00%	907.20	5947.20
	Anti Climbing Devices with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets	21	5,528	116088.00	18.00%	20895.84	136983.84
	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets	8	467	3736.00	18.00%	672.48	4408.48
D	Design, manufacture and Supply of following line materials							
D1	INSULATORS & HARDWARE FITTINGS (including Insulator)							•
i.	Single 'l' Suspension (145 kV Silicone composite Long Rod insulator)	Sets	14	3,881	54334.00	18.00%	9780.12	64114.12
ii.	Single Suspension Pilot (145 kV Silicone composite Long Rod insulator)	Sets	52	3,245	168740.00	18.00%	30373.20	199113.20
iii.	Double Suspension (145 kV Silicone composite Long Rod insulator)	Sets	6	7,762	46572.00	18.00%	8382.96	54954.96
iv.	Single Tension (145 kV Silicone composite Long Rod insulator)	Sets	30	3,947	118410.00	18.00%	21313.80	139723.80
	Double Tension (145 kV Silicone composite Long Rod insulator)	Sets Sets	122	8,052 8,196	982344.00 32784.00	18.00% 18.00%	176821.92 5901.12	1159165.92 38685.12
	Single 'I' Suspension (145 kV Long Rod Porcelain insulator)						100	
0.000	Single Suspension Pilot (145 kV Long Rod Porcelain insulator)	Sets	20	7,560	151200.00	18.00%	27216.00	178416.00
	Double Suspension (145 kV Long Rod Porcelain insulator)	Sets	0	16,392	0.00	18.00%	0.00	0.00 134321.76
	Single Tension (145 kV Long Rod Porcelain insulator) Double Tension (145 kV Long Rod Porcelain insulator)	Sets Sets	12 52	9,486 19,130	113832.00 994760.00	18.00% 18.00%	20489.76 179056.80	1173816.80
D2	ACSR Panther for 3 Phase Double Circuit Transmission Line	km	22	155,698		18.00%	616564.08	4041920.08
D3	OPGW with jointing and termination kit complete along with necessary hardwares and accessories as per approved specification	km	4	181,329	725316.00	18.00%	130556.88	855872.88
D4	ACCESSORIES FOR CONDUCTOR (Mid Span compression joint, Repair sleeve, Vibration Damper, etc. complete)	LOT	1	625,328	625328.00	18.00%	112559.04	737887.04
E	Supply of following Aviation Requirements							
E1	Span Markers	Nos.	10	5,792	57920.00	18.00%	10425.60	68345.60
E2	Obstruction Lights (to be provided as per IS 5613) 1 Medium Intensity + 2 Low Intensity	Solo	5	97,812	489060.00	18.00% 18.00%	88030.80	577090.80
i. ii.	1 Medium Intensity + 2 Low Intensity 1 Medium Intensity + 4 Low Intensity	Sets Sets	5	100,386	501930.00	18.00%	90347.40	592277.40
	MANDATORY SPARES			,				
F1	Line Insulators (all types) (5% of total quantity to be considered)	LOT	1	243,482	243482.00	18.00%	43826.76	287308.76
F2	Conductor Hardware fittings (5% of total quantity to be considered)	LOT	1	87,823	87823.00	18.00%	15808.14	103631.14
F3	OPGW Hardware fittings (5% of total quantity to be considered)	LOT	1	39,244	39243.83	18.00%	7063.89	46307.72
F4 G	Tower Accessories (5% of total quantity to be considered) MANDATORY TOOLS AND TACKLES	LOT	1	28,419	28419.00	18.00%	5115.42	33534.42
G1	Aerial Rollers suitable for Single Panther	Nos.	10	4,798	47980.00	18.00%	8636.40	56616.40
	Earthwire Rollers	Nos.	5	3,427	17135.00	18.00%	3084.30	20219.30

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SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
G3	Single Sheave Pullies	Nos.	5	2,285	11425.00	18.00%	2056.50	13481.50
G4	Safety Belts	Nos.	5	1,942	9710.00	18.00%	1747.80	11457.80
G5	Helmets	Nos.	5	228	1140.00	18.00%	205.20	1345.20
G6	First Aid Kit	Nos.	2	571	1142.00	18.00%	205.56	1347.56
G7	Tool Box	Nos.	2	3,427	6854.00	18.00%	1233.72	8087.72
G8	Drum lifting Jacks for Conductor	Sets	1	62,832	62832.00	18.00%	11309.76	74141.76
G9	Turn Table for Earthwire	Sets	1	36,557	36557.00	18.00%	6580.26	43137.26
G10	Discharge rod with cable	Nos.	2	13,709	27418.00	18.00%	4935.24	32353.24
G11	Fall arrester			-		18.00%		
i.	Mobile type	Sets	2	3,351	6702.00	18.00%	1206.36	7908.36
ji.	Retractable 6m long	Sets	2	11,704	23408.00	18.00%	4213.44	27621.44
G12	Crippling tool for GSW	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G13	Crippling tool for Conductor	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G14	Earth resistivity tester	Sets	1	12,566	12566.00	18.00%	2261.88	14827.88
Н	Emergency Restoration System (ERS)	Sets	0	27,000,000	0.00	18.00%	0.00	0.00
<u> </u>	TOTAL				19318796.83		3477383.43	22796180.26
			Bidder Name	•		R.S. INFRAF	PROJECTS PVT. I	_TD.
				ure:	thin d			

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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	SCHEDULE-3 : Design \$	Services for Trans	mission Line fro	om S/C LILO of	Lalmatia-Dumka	Tr. Line at Har	nsdiha	
		Scl	nedule of Quant	ity & Prices for				
			tallation, Testin					
	132kV Double Circuit Single	ACSR Panther Tr	ansmission Line	e From S/C LILC	of Lalmatia-Dui	nka Tr. Line at	t Hansdiha	
	Bid Inviting Au	thority: General N	lanager, Contra	cts & Materials,	World Bank Fun	ded Project		
			NIT No	э.				
SI. No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	. 2	3	4	5	6	7	8	9
	DESIGN ENGINEERING charges sha	all be included in t	he other schedul	es. Separate pay	ment shall not be	done		contracting as assessed
				_			-	
	TOTAL			-			 	
	TOTAL		Bidder Name			C INEDADDO	JECTS PVT. LTD	,
			bidder Name	•	"	.S. INFRAPRO	JECIS PVI. LIL	
			Bidder Signat	ture:	l	John	15:	
NOTE						AND DESCRIPTION OF THE PARTY OF		
	and prices shall be specified in Rs. only in	accordance with	ITB 18					
Bidder to	consider the GST rate as applicable.							

3. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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SCHEDULE-4: Installation and Other Services for Transmission Line from S/C LILO of Lalmatia-Dumka Tr. Line at Hansdiha

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From S/C LILO of Lalmatia-Dumka Tr. Line at Hansdiha

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

-000				NIT No.						
SI. No.	Item Description	Unit	Qty	Unit Price (Rs.) without GST	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Transport and Insurance with out GST	Transport and Insurance with GST	Total Erection Price (Rs.) with GST
			0.00 00.00		(4x5)	%	(6x7)			(6+8+10)
1	2	3	4	5	6	7	8	9	10	11
Α	Survey						1.			
A1	Check Survey and Field Investigation (Soil Investigation and Soil resistivity measurement)	km	3	9,240	27720.00	18.00%	4989.60	0.00	0.00	32709.60
В	Work Associated with Tower Foundations			1 -						
	Excavation in various types of soils		1000	-						
	Dry Soil	Cum	669	300	200700.00	18.00%	36126.00	0.00	0.00	236826.00
	Wet Soil	Cum	582	300	174600.00	18.00%	31428.00	0.00	0.00	206028.00
	WBC	Cum	306	485	148410.00	18.00%	26713.80	0.00	0.00	175123.80
	Dry Fissured Rock	Cum	368	485	178480.00	18.00%	32126.40	0.00	0.00	210606.40
V.	Wet Fissured Rock	Cum	241	562	135442.00	18.00%	24379.56	0.00	0.00	159821.56
B2	Concreting (Including all associated works related to foundation like benching, foundation protection, etc.)			-						
	M 25 Grade	Cum	0	9,387	0.00	18.00%	0.00	0.00	0.00	0.00
	M 20 Grade	Cum	250	9,033		18.00%	406485.00	0.00	0.00	2664735.00
ili.	M 10 Grade	Cum	34	7,446	253164.00	18.00%	45569.52	0.00	0.00	298733.52
	Supply and placement of reinforcement steel (Fe500) including installation of stub	MT	20	69,531	1390620.00	18.00%	250311.60	0.00	0.00	1640931.60
B4	Pilling work for tower in case of marshy, low bearing soils locations and/or special towers, where shallow foundation could not be adopted (No. of Tower locations) (Please refer Vol-II, Chapter - 8, Tower foundation, Erection, Stringing & Commissioning of line, Supply of towers, Accessories & Fasteners, Clause 14. Special Foundation, Table-4)	Nos.	2	100,000	200000.00	18.00%	36000.00	0.00	0.00	236000.00
	Work Associated with Tower Erection			-						
	Erection of various type of towers, Gantry, tower parts and tower extension (Complete) with bolts and nuts, Stub including tack welding and supply and application of zinc rich primer and two coats of enamel paint			-						
	Normal Towers and Gantry	MT	129	6,930	893970.00	18.00%	160914.60	0.00	0.00	1054884.60
C2	Erection of various type of Monopoles, Monopole extensions (Complete), with Nuts and Bolts etc.			-			*			
	Monopoles and Monopole Extensions	MT	0	15,400	0.00	18.00%	0.00	0.00	0.00	0.00
D ·	Installation of Earthing of tower including Earth Resistance Measurement and report submission			-						
i.	Pipe type Earthing	Nos.	10	1,848	18480.00	18.00%	3326.40	0.00	0.00	21806.40
	Counterpoise Earthing	Nos.	11	4,620	50820.00	18.00%	9147.60	0.00	0.00	59967.60
E	Installation of the following tower accessories			-				0.00	0.00	
i.	Danger plate with Nuts & Bolts (1 per Tower)	Nos.	21	77	1617.00	18.00%	291.06	0.00	0.00	1908.06
ii.	Number plate with Nuts & Bolts (1 per Tower)	Nos.	21	77	1617.00	18.00%	291.06	0.00	0.00	1908.06
A	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower)	Sets.	42	77	3234.00	18.00%	582.12	0.00	0.00	3816.12
	Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets.	21	77	1617.00	18.00%	291.06	0.00	0.00	1908.06
	Anti Climbing Devices with Nuts & Bolts (1 no. per Tower)	Sets.	21	2,310	48510.00	18.00%	8731.80	0.00	0.00	57241.80
	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower) Installation of Line Insulator, Conductor and OPGW	Sets.	8	77	616.00	18.00%	110.88	0.00	0.00	726.88
F1	Installation of insulator strings complete with arcing horns & necessary hardware and fittings, installing & stringing of conductor including fixing of conductor accessories	km	3	84,700	254100.00	18.00%	45738.00	0.00	0.00	299838.00
F2	Installation & stringing of OPGW with jointing and termination kit complete along with necessary hardwares and accessories as per approved specification including jointing, fixing of OPGW accessories, etc.	km	3	30,800	92400.00	18.00%	16632.00	0.00	0.00	109032.00
	TOTAL				6334367.00		1140186.06	0.00	0.00	7474553.06
	TOTAL		Bidder Name):	0334307.00			ROJECTS PVT		7474555.00
			Bidder Signa			4	wel	, •	· · · · · · · · · · · · · · · · · · ·	

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.
4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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SCHEDULE-5: Grand Summary for Transmission Line from S/C LILO of Lalmatia-Dumka Tr. Line at Hansdiha Schedule of Quantity & Prices for Supply, Installation, Testing & Commissioning of 132kV Double Circuit Single ACSR Panther Transmission Line From S/C LILO of Lalmatia-Dumka Tr. Line at Hansdiha Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project NIT No. Amount (in Rs.) SI. No. Description Total Total Supply Price excluding GST (Rs.)-Schedule No. 2 19,318,796.83 1 Total Design service excluding GST (Rs.)-Schedule No. 3 2 0.00 Total Erection, transport and insurance Price excluding GST (Rs.)-Schedule No. 3 6,334,367.00 25,653,163.83 **Grand Total** R.S. INFRAPROJECTS PVT. Bidder Name : LTD. Bidder Signature:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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SCHEDULE-6: Recommended Spare Parts from S/C LILO of Lalmatia-Dumka Tr. Line at Hansdiha

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From S/C LILO of Lalmatia-Dumka Tr. Line at Hansdiha

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

NIT No.

SI. No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
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								10 DALINE DE
	Total				0	19	0	0
			Bidder Name :	•	R	S INFRAPRO	JECTS PVT. LTD	

Bidder Signature:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18
2. Bidder to consider the GST rate as applicable.
3. This schedule will not be included for bid evaluation purpose.

SCHEDULE - 2 : Supply and Mandatory Spare Parts for Transmission Line from Sarath to Chitra Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From Sarath to Chitra

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

NIT No.	
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SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
Α	Tower, Monopole and Gantry Structure Fabrication, Galvanizing and supply of various type of tower &			_				
A1	Tower Parts, Gantry, Tower extensions (Complete), Stubs excluding bolts & nuts, Step bolt but including hangers, D-Shackles pack washer etc.		, o					
	HT Steel	MT	97	74,000	7178000.00	18.00%	1292040.00	8470040.00
	Mild Steel	MT	226	71,000	16046000.00	18.00%	2888280.00	18934280.00
A2	Supply of bolts & nuts including step bolts and spring washers	MT	18	100,000	1800000.00	18.00%	324000.00	2124000.00
А3	Fabrication, Galvanizing and Supply of various type of Monopoles, Monopole extensions (Complete), with Nuts and Bolts etc.	МТ	32	130,000	4160000.00	18.00%	748800.00	4908800.00
A4	Testing Charges for Special type of towers and Monopoles (Refer Note-4 for details)	No.	2	100,000	200000.00	18.00%	36000.00	236000.00
B	EARTHING OF TOWERS							
B1 i	Supply of Earthing of Towers Pipe Type Earthing	Nos.	34	2,826	96084.00	18.00%	17295.12	113379.12
	Counterpoise Earthing	Nos.	41	7,370	302170.00	18.00%	54390.60	356560.60
С	Tower Accessories					18.00%		
C1	Supply of following tower accessories	No.		1 212	10000 00	18.00%	0046.55	040 / 2 22
<u> </u>	Danger plate with Nuts & Bolts (1 per Tower) Number plate with Nuts & Bolts (1 per Tower)	Nos.	75 75	240	18000.00 18000.00	18.00% 18.00%	3240.00 3240.00	21240.00 21240.00
	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower)	Sets	150	240	36000.00	18.00%	6480.00	42480.00
	Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets	75	240	18000.00	18.00%	3240.00	21240.00
	Anti Climbing Devices with Nuts & Bolts (1 no. per Tower)	Sets	75	5,528	414600.00	18.00%	74628.00	489228.00
vi.	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets	64	467	29888.00	18.00%	5379.84	35267.84
D	Design, manufacture and Supply of following line materials							
D1	INSULATORS & HARDWARE FITTINGS (including Insulator)							
i.	Single 'I' Suspension (145 kV Silicone composite Long Rod insulator)	Sets	110	3,881	426910.00	18.00%	76843.80	503753.80
ii.	Single Suspension Pilot (145 kV Silicone composite Long Rod insulator)	Sets	60	3,245	194700.00	18.00%	35046.00	229746.00
iii.	Double Suspension (145 kV Silicone composite Long Rod insulator)	Sets	26	7,762	201812.00	18.00%	36326.16	238138.16
iv.	Single Tension (145 kV Silicone composite Long Rod insulator)	Sets	74	3,947	292078.00	18.00%	52574.04	344652.04
	Double Tension (145 kV Silicone composite Long Rod insulator)	Sets	298	8,052	2399496.00	18.00%	431909.28	2831405.28
vi.	Single 'I' Suspension (145 kV Long Rod Porcelain insulator)	Sets	46	8,196	377016.00	18.00%	67862.88	444878.88
vii.	Single Suspension Pilot (145 kV Long Rod Porcelain insulator)	Sets	24	7,560	181440.00	18.00%	32659.20	214099.20
viii.	Double Suspension (145 kV Long Rod Porcelain insulator)	Sets	10	16,392	163920.00	18.00%	29505.60	193425.60
ix.	Single Tension (145 kV Long Rod Porcelain insulator)	Sets	30	9,486	284580.00	18.00%	51224.40	335804.40
X.	Double Tension (145 kV Long Rod Porcelain insulator)	Sets	126	19,130	2410380.00	18.00%	433868.40	2844248.40
D2	ACSR Panther for 3 Phase Double Circuit Transmission Line	km	95	155,698	14791310.00	18.00%	2662435.80	17453745.80
D3	OPGW with jointing and termination kit complete along with necessary hardwares and accessories as per approved specification	km	16	181,329	2901264.00	18.00%	522227.52	3423491.52
D4	ACCESSORIES FOR CONDUCTOR (Mid Span compression joint, Repair sleeve, Vibration Damper, etc. complete)	LOT	1	625,328	625328.00	18.00%	112559.04	737887.04
Е	Supply of following Aviation Requirements							
E1 E2	Span Markers Obstruction Lights (to be provided as per IS 5612)	Nos.	10	5,792	57920.00	18.00%	10425.60	68345.60
i.	Obstruction Lights (to be provided as per IS 5613) 1 Medium Intensity + 2 Low Intensity	Sets	5	97,812	489060.00	18.00% 18.00%	88030.80	577090.80
ii.	1 Medium Intensity + 4 Low Intensity	Sets	5	100,386	501930.00	18.00%	90347.40	592277.40
	MANDATORY SPARES							
F1 F2	Line Insulators (all types) (5% of total quantity to be considered) Conductor Hardware fittings (5% of total quantity to be	LOT	1	243,482	243482.00	18.00%	43826.76	287308.76
F2	considered)	LOT	1	87,823	87823.00	18.00%	15808.14	103631.14
	OPGW Hardware fittings (5% of total quantity to be considered)	LOT	1	39,244	39243.83	18.00%	7063.89	46307.72
F4 G	Tower Accessories (5% of total quantity to be considered) MANDATORY TOOLS AND TACKLES	LOT	1	28,419	28419.00	18.00%	5115.42	33534.42
G1	Aerial Rollers suitable for Single Panther	Nos.	10	4,798	47980.00	18.00%	8636.40	56616.40
G2	Earthwire Rollers	Nos.	5	3,427	17135.00	18.00%	3084.30	20219.30

3,427 17135.00 A



SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
G3	Single Sheave Pullies	Nos.	5	2,285	11425.00	18.00%	2056.50	13481.50
G4	Safety Belts	Nos.	5	1,942	9710.00	18.00%	1747.80	11457.80
G5	Helmets	Nos.	5	228	1140.00	18.00%	205.20	1345.20
G6	First Aid Kit	Nos.	2	571	1142.00	18.00%	205.56	1347.56
G7	Tool Box	Nos.	2	3,427	6854.00	18.00%	1233.72	8087.72
G8	Drum lifting Jacks for Conductor	Sets	1	62,832	62832.00	18.00%	11309.76	74141.76
G9	Turn Table for Earthwire	Sets	1	36,557	36557.00	18.00%	6580.26	43137.26
G10	Discharge rod with cable	Nos.	2	13,709	27418.00	18.00%	4935.24	32353.24
G11	Fall arrester			-		18.00%		
i.	Mobile type	Sets	2	3,351	6702.00	18.00%	1206.36	7908.36
ii.	Retractable 6m long	Sets	2	11,704	23408.00	18.00%	4213.44	27621.44
G12	Crippling tool for GSW	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G13	Crippling tool for Conductor	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G14	Earth resistivity tester	Sets	1	12,566	12566.00	18.00%	2261.88	14827.88
Н	Emergency Restoration System (ERS)	Sets	0	27,000,000	0.00	18.00%	0.00	0.00
	TOTAL			 	57622442.83		10372039.71	67994482.54
			Bidder Name			R.S. INFRAF	ROJECTS PVT. I	_TD.
				Signature:			4 .	

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction for quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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	SCHE	DULE-3 : Design S	ervices for Tran	smission Line f	rom Sarath to Ch	itra		
Ý		Sch	edule of Quanti	ty & Prices for				
		Supply, Ins	tallation, Testin	g & Commission	ning of			
	132kV Dou	ıble Circuit Single	ACSR Panther T	ransmission Li	ne From Sarath to	Chitra		
	Bid Inviting A	uthority: General M	lanager, Contrac	cts & Materials,	World Bank Fund	ded Project		
			NIT No).				
SI. No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
DES	SIGN ENGINEERING charges sh	all be included in t	he other schedul	es. Separate pay	ment shall not be	done		
						-		
	* *							
	707.1				-		-	
	TOTAL		- N	<u> </u>	1	C INFRADRO	IFOTO DICT. LTD	
			Bidder Name	•	K.	S. INFRAPRO	JECTS PVT. LTD	<i>).</i>
					-	^		
			Bidder Signat	ure:	Calo	hes	<u>ن</u>	
NOTE	WALL CONTROL OF THE C		<u> </u>		garana.			
	prices shall be specified in Rs. only	in accordance with I	TB 18					
2. Bidder to cons	sider the GST rate as applicable.						8	

3. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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SCHEDULE-4: Installation and Other Services for Transmission Line from Sarath to Chitra

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From Sarath to Chitra

				NIT No.						
SI. No.	Item Description	Unit	Qty	Unit Price (Rs.) without GST	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Transport and Insurance with out GST	Transport and Insurance with GST	Total Erection Price (Rs.) with GST
					(4x5)	%	(6x7)			(6+8+10)
1	2	3	4	5	6	7	8	9	10	11
Α	Survey									
A1	Check Survey and Field Investigation (Soil Investigation and Soil resistivity measurement)	km	15	9,240	138600.00	18.00%	24948.00	0.00	0.00	163548.00
В	Work Associated with Tower Foundations			-						
B1	Excavation in various types of soils	1 10		-						artaentra de Car
i.	Dry Soil	Cum	2076	300	622800.00	18.00%	112104.00	0.00	0.00	734904.00
	Wet Soil	Cum	1500	300	450000.00	18.00%	81000.00	0.00	0.00	531000.00
	WBC	Cum	808	485	391880.00	18.00%	70538.40	0.00	0.00	462418.40
iv.	Dry Fissured Rock	Cum	854	485	414190.00	18.00%	74554.20	0.00	0.00	488744.20
٧.	Wet Fissured Rock	Cum	578	562	324836.00	18.00%	58470.48	0.00	0.00	383306.48
B2	Concreting (Including all associated works related to foundation like benching, foundation protection, etc.)			-						
i.	M 25 Grade	Cum	115	9,387	1079505.00	18.00%	194310.90	0.00	0.00	1273815.90
	M 20 Grade	Cum	653	9.033	5898549.00	18.00%	1061738.82	0.00	0.00	6960287.82
	M 10 Grade	Cum	105	7,446	781830.00	18.00%	140729.40	0.00	0.00	922559.40
	Supply and placement of reinforcement steel (Fe500) including		§							
В3	installation of stub Pilling work for tower in case of marshy, low bearing soils	МТ	67	69,531	4658577.00	18.00%	838543.86	0.00	0.00	5497120.86
В4	locations and/or special towers, where shallow foundation could not be adopted (No. of Tower locations) (Please refer Vol-II, Chapter - 8, Tower foundation, Erection, Stringing & Commissioning of line, Supply of towers, Accessories & Fasteners, Clause 14. Special Foundation, Table-4)	Nos.	2	100,000	200000.00	18.00%	36000.00	0.00	0.00	236000.00
С	Work Associated with Tower Erection			-						
C1	Erection of various type of towers, Gantry, tower parts and tower extension (Complete) with bolts and nuts, Stub including tack welding and supply and application of zinc rich primer and two coats of enamel paint			-						
	Normal Towers and Gantry	MT	341	6,930	2363130.00	18.00%	425363.40	0.00	0.00	2788493.40
C2	Erection of various type of Monopoles, Monopole extensions (Complete), with Nuts and Bolts etc.			-		10.0070	120000110	0.00	0.00	
	Monopoles and Monopole Extensions	MT	32	15,400	492800.00	18.00%	88704.00	0.00	0.00	581504.00
	Installation of Earthing of tower including Earth Resistance	IVII	32	15,400	492000.00	10.00%	00704.00	0.00	0.00	361304.00
D	Measurement and report submission			-						
	Pipe type Earthing	Nos.	34	1,848	62832.00	18.00%	11309.76	0.00	0.00	74141.76
	Counterpoise Earthing	Nos.	41	4,620	189420.00	18.00%	34095.60	0.00	0.00	223515.60
	Installation of the following tower accessories	-		-	1.51			0.00	0.00	
	Danger plate with Nuts & Bolts (1 per Tower)	Nos.	75	77	5775.00	18.00%	1039.50	0.00	0.00	6814.50
ii.	Number plate with Nuts & Bolts (1 per Tower)	Nos.	75	77	5775.00	18.00%	1039.50	0.00	0.00	6814.50
iii.	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower)	Sets.	150	77	11550.00	18.00%	2079.00	0.00	0.00	13629.00
	Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets.	75	77	5775.00	18.00%	1039.50	0.00	0.00	6814.50
	Anti Climbing Devices with Nuts & Bolts (1 no. per Tower)	Sets.	75	2,310	173250.00	18.00%	31185.00	0.00	0.00	204435.00
vi.	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets.	64	77	4928.00	18.00%	887.04	0.00	0.00	5815.04
F	Installation of Line Insulator, Conductor and OPGW	es.		-						
F1	Installation of insulator strings complete with arcing horns & necessary hardware and fittings, installing & stringing of conductor including fixing of conductor accessories	km	15	84,700	1270500.00	18.00%	228690.00	0.00	0.00	1499190.00
F2	Installation & stringing of OPGW with jointing and termination kit complete along with necessary hardwares and accessories as per approved specification including jointing, fixing of OPGW accessories, etc.	km	15	30,800	462000.00	18.00%	83160.00	0.00	0.00	545160.00
	TOTAL				20008502.00		3601530.36	0.00	0.00	23610032.36

NOTE

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

Bidder Signature:

^{3.} Bidder to consider the GST rate as applicable.
4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.







^{1.} All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) (Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

SCHEDULE-5: Grand Summary for Transmission Line from Sarath to Chitra Schedule of Quantity & Prices for Supply, Installation, Testing & Commissioning of 132kV Double Circuit Single ACSR Panther Transmission Line From Sarath to Chitra Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project NIT No. Amount (in Rs.) SI. No. Description Total 57,622,442.83 Total Supply Price excluding GST (Rs.)-Schedule No. 2 1 Total Design service excluding GST (Rs.)-Schedule No. 3 0.00 2 Total Erection, transport and insurance Price excluding GST (Rs.)-Schedule No. 20,008,502.00 3 77,630,944.83 **Grand Total** R.S. INFRAPROJECTS PVT. Bidder Name: LTD. Bidder Signature:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.







SCHEDULE-6: Recommended Spare Parts from Sarath to Chitra

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From Sarath to Chitra

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

NIT No.

SI. No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
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					0		0	0
					0		0	0
			<u> </u>		0		0	0
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					0		0	0
	100 To				0		0	0
					0		0	0
							0	0
	Total		Bidder Name		0	S INFRAPRO	JECTS PVT. LTI	

Bidder Name :

R.S. INFRAPROJECTS PVT. LTD.

Bidder Signature:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

Bidder to consider the GST rate as applicable.
 This schedule will not be included for bid evaluation purpose.

SCHEDULE - 2 : Supply and Mandatory Spare Parts for Transmission Line from Sarath to Palojori Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From Sarath to Palojori

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

NI	TA	Jo.

St. No. Description				1411 140.				r	
A Tower, Monopole and Gardry Structure	SI. No.	Description	Unit	Qty	The second of th	(Rs.) without	GST Rate	A management of the commentation	Total Price (Rs.) with GST
A Tower, Monopole and Gardry Structure						(4x5)	%	(6x7)	(6+8)
A flower, Monopole and Gardary Structure - Fabrication, Contenting and Supply of Various type of flower & Fabrication, Complete), Shabe Sh	1	2	3	4	5				
Fateriation, Galoniuming and auply of versions type of lowest & Tower Parts, Carry, Tower destroints (Complete), Shinds would not be a control of the cont			-						**
An Tower Parts, Carrary, Tower extensions (Comprised), Studies excluding block in Australian Davin Including hangure, D- proceedings parts weathware ret. MT 911 174,000 821400,000 18,00% 1478500,00 2218500,000 218000,00 328000,00 22185000,00 218000,00 328000,00 22185000,00 3218500,00 22185000,00 3218500,00					†				
In His Shell	A1	Tower Parts, Gantry, Tower extensions (Complete), Stubs excluding bolts & nuts, Step bolt but including hangers, D-							
A	i.		MT	111	74,000	8214000.00	18.00%	1478520.00	9692520.00
## Patriciation, Galvanizing and Supply of various type of Monopoles, MrT 32 130,000 4160000,00 18,00% 748800,00 4008800,00 Monopole extensions (Complete), with Nuts and Botts etc. ## Testing Charges for Spead type of towers and Monopoles (Refer No. 2 100,000 200000,00 18,00% 36000,00 28600,00 No. 4 100,004 600,004 600,004 700,000 18,00% 36000,00 28600,00 No. 4 10,004 7370 381150 07 1800 75 1800,00 18,00% 420,000 75 1800,00 18,00			MT	260	71,000	18460000.00	18.00%	3322800.00	21782800.00
Monopole extensions (Complete), with Nuts and Botts etc. MI 32 150,000 150,000 150,000 32,000,0	A2	Supply of bolts & nuts including step bolts and spring washers	МТ	21	100,000	2100000.00	18.00%	378000.00	2478000.00
Note of the details	А3		МТ	32	130,000	4160000.00	18.00%	748800.00	4908800.00
Bit	A4		No.	2	100,000	200000.00	18.00%	36000.00	236000.00
Pipe Type Earthring	В	EARTHING OF TOWERS						30.00	
E. Courrierpoise Earthing									
C Tower Accessories									
Color Colo			Nos.	49	7,370	361130.00		65003.40	426133.40
1. Danger plate with Nuts & Bobts (1 per Tower) Nos. 90 240 21600 00 18 00% 3888 00 25488 00 25488 00 18 Number plate with Nuts & Bobts (1 per Tower) Nos. 90 240 21600 00 18 00% 3888 00 25488 00 3888									
B. Number plate with Nuts & Both's (1 per Tower)					1	04000		0000.55	05100.00
III Phase plate with Nuts & Botts (Set of 3) (Z no. per IDC Tower) Sets 100 240 4200 00 18.00% 7776.00 50976.00 10.00% 10.00% 20.00% 10.00% 20.00% 10.00% 20.00% 10.00% 20.00%									
V Circuit Pisto with Nuts & Boils (See of 2) (1 nc, per Tower) Sets 90 240 21600.00 18.00% 3888.00 25488.00 3.00	2000		97.5			200 CO	The second secon		
V. Anti Climbing Devices with Nuts & Bolts (1 no. per Tower) Sets 90 5.528 49750.00 18.00% 89653.80 587072.60 18.00% 89237.88 54003.88 587072.60 18.00% 8237.88 54003.88 587072.60 18.00% 8237.88 54003.88 587072.60 18.00% 8237.88 54003.88 587072.60 18.00% 8237.88 54003.88 587072.60 18.00% 8237.88 54003.88 587072.60 18.00%	00000		100000000000000000000000000000000000000	T00200000	7.0000	1000 0753 0553 0553		ACCUSATION CO.	
D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of following line materials D Design, manufacture and Supply of Supplemental Pict D Design, manufacture and Supply of Suppl									
Design									
Single Suspension (145 kV Silicone composite Long Rod Insulator) Sets 164 3,881 636484.00 18.00% 114567.12 751051.12 1	vi.	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets	98	467	45766.00	18.00%	8237.88	54003.88
Single T Suspension (145 kV Silicone composite Long Rod Sets 164 3,881 636484.00 18,00% 114567.12 751051.12 insulator) Single Suspension Pilot (145 kV Silicone composite Long Rod Insulator) Sets 68 3,245 220660.00 18,00% 39718.80 260378.80 2603	D	Design, manufacture and Supply of following line materials							
Insulator)	D1								
Insulator)	i.	insulator)	Sets	164	3,881	636484.00	18.00%	114567.12	751051.12
iii. Insulator) iv. Single Tension (145 kV Silicone composite Long Rod insulator) sets 70 3,947 276290.00 18.00% 49732.20 326022.20 v. Double Tension (145 kV Silicone composite Long Rod insulator) sets 284 8.052 2286768.00 18.00% 411618.24 2696386.24 vi. Single Suspension (145 kV Long Rod Porcelain insulator) sets 70 8.198 573720.00 18.00% 130369.60 676989.60 vii. Single Suspension Pilot (145 kV Long Rod Porcelain insulator) sets 28 7,560 211880.00 18.00% 38102.40 249782.40 viii. Double Suspension (145 kV Long Rod Porcelain insulator) sets 18 16,392 295056.00 18.00% 53110.08 348166.08 ix. Single Tension (145 kV Long Rod Porcelain insulator) sets 28 9,486 256508.00 18.00% 431308.00 2708808.00 DZ ACSR Panther for 3 Phase Double Circuit Transmission Line km 125 155,698 19462250.00 18.00% 431308.00 2708808.00 DZ ACSR Panther for 3 Phase Double Circuit Transmission Line km 125 155,698 19462250.00 18.00% 3503205.00 22965455.00 DG With jointing and termination kit complete along with necessary hardwares and accessories as per approved km 21 181,329 3807909.00 18.00% 685423.62 4493332.62 ACCESSORIES FOR CONDUCTOR (Mild Span compression play for following Aviation Requirements E1 Supply of following Aviation Requirements E2 Obstruction Lights (to be provided as per IS 5613) 1 1 Medium Intensity + 2 Low Intensity Sets 5 100,386 501930.00 18.00% 88030.80 577090.80 iii. 1 Medium Intensity + 2 Low Intensity Sets 5 100,386 501930.00 18.00% 43826.76 287308.76 FM MANDATORY SPARES F1 Line Insulators (all types) (5% of total quantity to be considered) LOT 1 87,823 87823.00 18.00% 5115.42 33534.42 F4 Tower Accessories (5% of total quantity to be considered) LOT 1 87,823 87823.00 18.00% 5115.42 33534.42 G MANDATORY TOOLS AND TACKLES G MANDATORY TOOLS AND TACKLES G MANDATORY TOOLS AND TACKLES	ii.	insulator)	Sets	68	3,245	220660.00	18.00%	39718.80	260378.80
V. Double Tension (145 kV Silicone composite Long Rod insulator) Sets 284 8.052 2286768.00 18.00% 411618.24 2698386.24		insulator)	Sets		1				
vi. Single I* Suspension (145 kV Long Rod Porcelain insulator) Sets 70 8.196 573720.00 18.00% 103269.60 676989.60 vii. Single Suspension (145 kV Long Rod Porcelain insulator) Sets 28 7,560 211680.00 18.00% 38102.40 249782.40 viii Double Suspension (145 kV Long Rod Porcelain insulator) Sets 18 16,392 295056.00 18.00% 53110.08 348166.08 ix. Single Tension (145 kV Long Rod Porcelain insulator) Sets 28 9,486 285608.00 18.00% 53110.08 348166.08 x. Double Tension (145 kV Long Rod Porcelain insulator) Sets 28 9,486 285608.00 18.00% 47809.44 313117.44 x. Double Tension (145 kV Long Rod Porcelain insulator) Sets 28 9,486 285608.00 18.00% 47809.44 331417.44 x. Double Tension (145 kV Long Rod Porcelain insulator) Sets 28 9,486 285608.00 18.00% 43208.00 20 27808.00 331417.44 21 3181 3181 34816.00 34816.00 <th< td=""><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></th<>					-				
vii. Single Suspension Pilot (145 kV Long Rod Porcelain insulator) Sets 28 7,560 211680.00 18.00% 38102.40 249782.40 viii Double Suspension (145 kV Long Rod Porcelain insulator) Sets 18 16,392 295056.00 18.00% 53110.08 348166.08 ix. Single Tension (145 kV Long Rod Porcelain insulator) Sets 28 9,486 265608.00 18.00% 47809.44 313417.44 x. Double Tension (145 kV Long Rod Porcelain insulator) Sets 120 19,130 2295609.00 18.00% 47809.44 313417.44 x. Double Tension (145 kV Long Rod Porcelain insulator) Sets 120 19,130 2295609.00 18.00% 47809.44 313417.44 x. Double Tension (145 kV Long Rod Porcelain insulator) Sets 120 19,130 2295609.00 18.00% 47809.44 313417.44 x. Double Tension (145 kV Long Rod Porcelain insulator) Sets 120 19,130 2295600.00 18.00% 3630205.00 22965455.00 Double Substance Accessori									
viii Double Suspension (145 kV Long Rod Porcelain insulator) Sets 18 16,392 295056.00 18.00% 53110.08 348166.08 ix. Single Tension (145 kV Long Rod Porcelain insulator) Sets 28 9,486 265608.00 18.00% 47809.44 313417.44 x. Double Tension (145 kV Long Rod Porcelain insulator) Sets 120 19,130 2295600.00 18.00% 47809.44 313417.44 x. Double Tension (145 kV Long Rod Porcelain insulator) Sets 120 19,130 2295600.00 18.00% 413208.00 2708808.00 D2 ACSR Panther for 3 Phase Double Circuit Transmission Line km 125 155,698 19462250.00 18.00% 3503205.00 22965455.00 D3 ACCESSORIES For Conduction in Requirements km 21 181,329 3807909.00 18.00% 468423.62 4493332.62 E Supply of following Aviation Damper, etc. complete) LOT 1 625,328 625328.00 18.00% 10425.60 68345.60 E1 Supply of following Aviation Requirements Nos. 10 5,792 </td <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			1						
Ix. Single Tension (145 kV Long Rod Porcelain insulator) Sets 28 9,486 265608.00 18.00% 47809.44 313417.44 x. Double Tension (145 kV Long Rod Porcelain insulator) Sets 120 19.130 2295600.00 18.00% 413208.00 2708808.00 D2 ACSR Panther for 3 Phase Double Circuit Transmission Line km 125 155,698 19462250.00 18.00% 3503205.00 22965455.00 D3 D3 D3 D3 D3 D3 D3				1					
X. Double Tension (145 kV Long Rod Porcelain insulator) Sets 120 19,130 2295600.00 18.00% 413208.00 2708808.00									
D2 ACSR Panther for 3 Phase Double Circuit Transmission Line km 125 155,698 19462250.00 18.00% 3503205.00 22965455.00									
D3 necessary hardwares and accessories as per approved specification Specification			11 (1995)	V-1000000000000000000000000000000000000					
D4 joint, Repair sleeve, Vibration Damper, etc. complete) LOT 1 625,328 625328.00 18.00% 112559.04 737887.04	D3	necessary hardwares and accessories as per approved	km	21	181,329	3807909.00	18.00%	685423.62	4493332.62
Span Markers	D4	ACCESSORIES FOR CONDUCTOR (Mid Span compression	LOT	1	625,328	625328.00	18.00%	112559.04	737887.04
Span Markers	E"	Supply of following Aviation Requirements							
i. 1 Medium Intensity + 2 Low Intensity Sets 5 97,812 489060.00 18.00% 88030.80 577090.80 ii. 1 Medium Intensity + 4 Low Intensity Sets 5 100,386 501930.00 18.00% 90347.40 592277.40 F MANDATORY SPARES Intention Insulators (all types) (5% of total quantity to be considered) LOT 1 243,482 243482.00 18.00% 43826.76 287308.76 F2 Conductor Hardware fittings (5% of total quantity to be considered) LOT 1 87,823 87823.00 18.00% 15808.14 103631.14 F3 OPGW Hardware fittings (5% of total quantity to be considered) LOT 1 39,244 39243.83 18.00% 7063.89 46307.72 F4 Tower Accessories (5% of total quantity to be considered) LOT 1 28,419 28419.00 18.00% 5115.42 33534.42 G MANDATORY TOOLS AND TACKLES 6 Aerial Rollers suitable for Single Panther Nos. 10 4,798 47980.00 18.00% 8636.40 56616.40 <td>E1</td> <td>Span Markers</td> <td>Nos.</td> <td>10</td> <td>5,792</td> <td>57920.00</td> <td></td> <td>10425.60</td> <td>68345.60</td>	E1	Span Markers	Nos.	10	5,792	57920.00		10425.60	68345.60
ii. 1 Medium Intensity + 4 Low Intensity Sets 5 100,386 501930.00 18.00% 90347.40 592277.40 F MANDATORY SPARES Intention Insulators (all types) (5% of total quantity to be considered) LOT 1 243,482 243482.00 18.00% 43826.76 287308.76 F2 Conductor Hardware fittings (5% of total quantity to be considered) LOT 1 87,823 87823.00 18.00% 15808.14 103631.14 F3 OPGW Hardware fittings (5% of total quantity to be considered) LOT 1 39,244 39243.83 18.00% 7063.89 46307.72 F4 Tower Accessories (5% of total quantity to be considered) LOT 1 28,419 28419.00 18.00% 5115.42 33534.42 G MANDATORY TOOLS AND TACKLES Intention of the property of t									
F MANDATORY SPARES Line Insulators (all types) (5% of total quantity to be considered) LOT 1 243,482 243482.00 18.00% 43826.76 287308.76 F2 Conductor Hardware fittings (5% of total quantity to be considered) LOT 1 87,823 87823.00 18.00% 15808.14 103631.14 F3 OPGW Hardware fittings (5% of total quantity to be considered) LOT 1 39,244 39243.83 18.00% 7063.89 46307.72 F4 Tower Accessories (5% of total quantity to be considered) LOT 1 28,419 28419.00 18.00% 5115.42 33534.42 G MANDATORY TOOLS AND TACKLES Insulation of the properties of the prope									
F1 Line Insulators (all types) (5% of total quantity to be considered) LOT 1 243,482 243482.00 18.00% 43826.76 287308.76 F2 Conductor Hardware fittings (5% of total quantity to be considered) LOT 1 87,823 87823.00 18.00% 15808.14 103631.14 F3 OPGW Hardware fittings (5% of total quantity to be considered) LOT 1 39,244 39243.83 18.00% 7063.89 46307.72 F4 Tower Accessories (5% of total quantity to be considered) LOT 1 28,419 28419.00 18.00% 5115.42 33534.42 G MANDATORY TOOLS AND TACKLES 6 MANDATORY TOOLS AND TACKLES 8636.40 56616.40			Sets	5	100,386	501930.00	18.00%	90347.40	592277.40
F2 Conductor Hardware fittings (5% of total quantity to be considered) LOT 1 87,823 87823.00 18.00% 15808.14 103631.14 F3 OPGW Hardware fittings (5% of total quantity to be considered) LOT 1 39,244 39243.83 18.00% 7063.89 46307.72 F4 Tower Accessories (5% of total quantity to be considered) LOT 1 28,419 28419.00 18.00% 5115.42 33534.42 G MANDATORY TOOLS AND TACKLES Image: April of the considered of the consi		The second secon	LOT	1	243,482	243482.00	18.00%	43826.76	287308.76
F3 OPGW Hardware fittings (5% of total quantity to be considered) LOT 1 39,244 39243.83 18.00% 7063.89 46307.72 F4 Tower Accessories (5% of total quantity to be considered) LOT 1 28,419 28419.00 18.00% 5115.42 33534.42 G MANDATORY TOOLS AND TACKLES 5 5 6 18.00% 8636.40 56616.40 G1 Aerial Rollers suitable for Single Panther Nos. 10 4,798 47980.00 18.00% 8636.40 56616.40	F2	Conductor Hardware fittings (5% of total quantity to be			-			VII. 1904 1900 0000	
G MANDATORY TOOLS AND TACKLES Incompanie of the control of the contro			LOT	1	39,244	39243.83	18.00%	7063.89	46307.72
G MANDATORY TOOLS AND TACKLES Incompanie of the control of the contro	F4	Tower Accessories (5% of total quantity to be considered)	LOT	1	28,419	28419.00	18.00%	5115.42	33534.42
		MANDATORY TOOLS AND TACKLES							

unes.



SI. No.	Description	Unit	Qty	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
G3	Single Sheave Pullies	Nos.	5	2,285	11425.00	18.00%	2056.50	13481.50
G4	Safety Belts	Nos.	5	1,942	9710.00	18.00%	1747.80	11457.80
G5	Helmets	Nos.	5	228	1140.00	18.00%	205.20	1345.20
G6	First Aid Kit	Nos.	2	571	1142.00	18.00%	205.56	1347.56
G7	Tool Box	Nos.	2	3,427	6854.00	18.00%	1233.72	8087.72
G8	Drum lifting Jacks for Conductor	Sets	1	62,832	62832.00	18.00%	11309.76	74141.76
G9	Turn Table for Earthwire	Sets	1	36,557	36557.00	18.00%	6580.26	43137.26
G10	Discharge rod with cable	Nos.	2	13,709	27418.00	18.00%	4935.24	32353.24
G11	Fall arrester			-	AND TO SECURE THE POWER OF	18.00%		
i,	Mobile type	Sets	2	3,351	6702.00	18.00%	1206.36	7908.36
ii.	Retractable 6m long	Sets	2	11,704	23408.00	18.00%	4213.44	27621.44
G12	Crippling tool for GSW	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G13	Crippling tool for Conductor	Sets	1	171,360	171360.00	18.00%	30844.80	202204.80
G14	Earth resistivity tester	Sets	. 1	12,566	12566.00	18.00%	2261.88	14827.88
Н	Emergency Restoration System (ERS)	Sets	0	27,000,000	0.00	18.00%	0.00	0.00
TOTAL				67601105.83		12168199.05	79769304.88	
			Bidder Name :	•	•	R.S. INFRAF	ROJECTS PVT. I	TD.
			Bidder Signatu	re:	hala di			

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items or which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

Ju t Me

T	SCHEDULE-	3 : Design Ser	vices for Transr	nission Line fro	om Sarath to Pale	ojori		
		Sche	edule of Quantit	y & Prices for				
11127 2012		Supply, Insta	allation, Testing	& Commission	ning of			
	132kV Double Ci	rcuit Single AC	SR Panther Tra	nsmission Line	From Sarath to	Palojori		
	Bid Inviting Authori	ity: General Ma	nager, Contract	ts & Materials,	World Bank Fund	ded Project		
			NIT No.					
SI. No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GST
					(4x5)	%	(6x7)	(6+8)
1	2	3	4	5	6	7	8	9
	DESIGN ENGINEERING charges shall be	included in the	e other schedule	s. Separate pay	ment shall not be	done		
8841								
						Control of the Contro		
						2007 200		
	TOTAL							
			Bidder Name : R.S. INFRAPRO		S. INFRAPRO.	DJECTS PVT. LTD.		
			Bidder Signatu	idder Signature:				
NOTE								

All rates and prices shall be specified in Rs. only in accordance with ITB 18
 Bidder to consider the GST rate as applicable.

^{3.} The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

SCHEDULE-4: Installation and Other Services for Transmission Line from Sarath to Palojori

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From Sarath to Palojori

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

SI. No.	Item Description	Unit	Qty	Unit Price (Rs.) without GST	Total Price (Rs.) without GST		GST Amount (Rs.)	Transport and Insurance with out GST	Transport and Insurance with GST	Total Erection Price (Rs.) with GST
		_			(4x5)	%	(6x7)			(6+8+10)
1 A	2 Survey	3	4	5	6	7	8	9	10	11
58 36	Check Survey and Field Investigation (Soil Investigation and	-	 						V	
A1	Soil resistivity measurement)	km	20	9,240	184800.00	18.00%	33264.00	0.00	0.00	218064.00
В	Work Associated with Tower Foundations			-						
B1	Excavation in various types of soils	Ks.		-						
	Dry Soil	Cum		300	657600.00	18.00%	118368.00	0.00	0.00	775968.00
	Wet Soil	Cum		300	530700.00	18.00%	95526.00	0.00	0.00	626226.00
	WBC Dry Fissured Rock	Cum	950 972	485 485	460750.00	18.00%	82935.00	0.00	0.00	543685.00
	Wet Fissured Rock	Cum	662	562	471420.00 372044.00	18.00% 18.00%	84855.60 66967.92	0.00	0.00	556275.60 439011.92
	Concreting (Including all associated works related to foundation	Cum	002		372044.00	10.0076	00307.32	0.00	0.00	439011.92
B2	like benching, foundation protection, etc.)			-						
	M 25 Grade	Cum	115	9,387	1079505.00	18.00%	194310.90	0.00	0.00	1273815.90
	M 20 Grade	Cum	741	9,033	6693453.00	18.00%	1204821.54	0.00	0.00	7898274.54
iii.	M 10 Grade	Cum	117	7,446	871182.00	18.00%	156812.76	0.00	0.00	1027994.76
В3	Supply and placement of reinforcement steel (Fe500) including installation of stub	МТ	74	69,531	5145294.00	18.00%	926152.92	0.00	0.00	6071446.92
В4	Pilling work for tower in case of marshy, low bearing soils locations and/or special towers, where shallow foundation could not be adopted (No. of Tower locations) (Please refer Vol-II, Chapter - 8, Tower foundation, Erection, Stringing & Commissioning of line, Supply of towers, Accessories & Fasteners, Clause 14. Special Foundation, Table-4)	Nos.	2	100,000	200000.00	18.00%	36000.00	0.00	0.00	236000.00
С	Work Associated with Tower Erection			-						
C1	Erection of various type of towers, Gantry, tower parts and tower extension (Complete) with bolts and nuts, Stub including tack welding and supply and application of zinc rich primer and two coats of enamel paint									
	Normal Towers and Gantry	MT	392	6,930	2716560.00	18.00%	488980.80	0.00	0.00	3205540.80
C2	Erection of various type of Monopoles, Monopole extensions (Complete), with Nuts and Bolts etc.								******	
	Monopoles and Monopole Extensions	MT	32	15,400	492800.00	18.00%	88704.00	0.00	0.00	581504.00
	Installation of Earthing of tower including Earth Resistance Measurement and report submission			-					23(0) 30(0) 30 10 10 10	
	Pipe type Earthing	Nos.	41	1,848	75768.00	18.00%	13638.24	0.00	0.00	89406.24
	Counterpoise Earthing	Nos.	49	4,620	226380.00	18.00%	40748.40	0.00	0.00	267128.40
	Installation of the following tower accessories							0.00	0.00	
	Danger plate with Nuts & Bolts (1 per Tower)	Nos.	90	77	6930.00	18.00%	1247.40	0.00	0.00	8177.40
ji.	Number plate with Nuts & Bolts (1 per Tower)	Nos.	90	77	6930.00	18.00%	1247.40	0.00	0.00	8177.40
iii.	Phase plate with Nuts & Bolts (Set of 3) (2 no. per D/C Tower)	Sets.	180	77	13860.00	18.00%	2494.80	0.00	0.00	16354.80
iv.	Circuit Plate with Nuts & Bolts (Set of 2) (1 no. per Tower)	Sets.	90	77	6930.00	18.00%	1247.40	0.00	0.00	8177.40
	Anti Climbing Devices with Nuts & Bolts (1 no. per Tower)	Sets.	90	2,310	207900.00	18.00%	37422.00	0.00	0.00	245322.00
vi.	Bird Guard with Nuts & Bolts (Set of 3) (2 no. per Tower)	Sets.	98	77	7546.00	18.00%	1358.28	0.00	0.00	8904.28
F	nstallation of Line Insulator, Conductor and OPGW			-				,		
F1	nstallation of insulator strings complete with arcing horns & necessary hardware and fittings, installing & stringing of conductor including fixing of conductor accessories	km	20	84,700	1694000.00	18.00%	304920.00	0.00	0.00	1998920.00
2	nstallation & stringing of OPGW with jointing and termination kit complete along with necessary hardwares and accessories as per approved specification including jointing, fixing of OPGW accessories, etc.	km	20	30,800	616000.00	18.00%	110880.00	0.00	0.00	726880.00
	TOTAL				22738352.00	-	4092903.36	0.00	0.00	26831255.36
			Bidder Name		R.S. INFRAPROJECTS PVT. LTD.					20031233.30
re			Bidder Signa	ture:	4 MCCES					

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

^{3.} Bidder to consider the GST rate as applicable.
4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.







^{2.} a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

SCHEDULE-5: Grand Summary for Transmission Line from Sarath to Palojori Schedule of Quantity & Prices for Supply, Installation, Testing & Commissioning of 132kV Double Circuit Single ACSR Panther Transmission Line From Sarath to Palojori Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project NIT No. Amount (in Rs.) SI. No. Description Total 67,601,105.83 1 Total Supply Price excluding GST (Rs.)-Schedule No. 2 2 Total Design service excluding GST (Rs.)-Schedule No. 3 0.00 Total Erection, transport and insurance Price excluding GST (Rs.)-Schedule No. 3 22,738,352.00 **Grand Total** 90,339,457.83 R.S. INFRAPROJECTS PVT. Bidder Name: LTD. Bidder Signature:

NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

2. a). The bid price for (i) the items for which quantities have been indicated as lump sum or lot or set and/or (ii) where the quantities are to be estimated by the Bidder shall remain constant unless there is change made in the Scope of Work by Employer and / or for price variation relating to price adjustment provisions. The quantities and unit prices (i) subsequently arrived while approving the Bill of Quantities (BOQ) /Billing breakup of lump sum quantities/lot/Set and/or (ii) estimated by the bidder shall be for on account payment purpose only. In case additional quantities, over and above the quantities BOQ/billing breakup and /or estimated by the bidder, are required for successful completion of the scope of work as per Technical Specification, the Bidder shall execute additional quantities of these items for which no additional payment shall be made over and above the lump sum bid price. In case quantities of these items supplied at site are in excess of that required for successful completion of scope of work, such additional quantities shall be the property of the bidders and they shall be allowed to take back the same from the site for which no deduction from the lump sum bid price shall be made. Further, in case actual requirement of quantities for successful completion of scope of work is less than the quantities identified in the approved BOQ /billing breakup and/or estimated by the bidder, the lump sum bid price shall remain unchanged and no deduction shall be made from the lump sum price due to such reduction of quantities.

b) Items for which no rate or price has been entered in, will not be paid for by the employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities.

3. Bidder to consider the GST rate as applicable.

4. The details of standard towers and foundation will be provided by JUSNL to successful Bidder for execution purpose. Incase of special type of tower, special tower foundation, pile foundation, Monopole, Monopole foundation, Contractor shall design and get it approved from JUSNL. Incase of designed structures, tower testing and inspection shall be in Contractor's scope. Include Price schedule for testing. During bid evaluation, testing charges will be considered.

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SCHEDULE-6: Recommended Spare Parts from Sarath to Palojori

Schedule of Quantity & Prices for

Supply, Installation, Testing & Commissioning of

132kV Double Circuit Single ACSR Panther Transmission Line From Sarath to Palojori

Bid Inviting Authority: General Manager, Contracts & Materials, World Bank Funded Project

NIT No.

			NIIN	10.				
SI. No.	Description	Unit	Qty.	Unit Price (Rs.)	Total Price (Rs.) without GST	GST Rate	GST Amount (Rs.)	Total Price (Rs.) with GS
					(4x5)	%	(6x7)	(6+8)
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NOTE

1. All rates and prices shall be specified in Rs. only in accordance with ITB 18

Bidder to consider the GST rate as applicable.
 This schedule will not be included for bid evaluation purpose.