

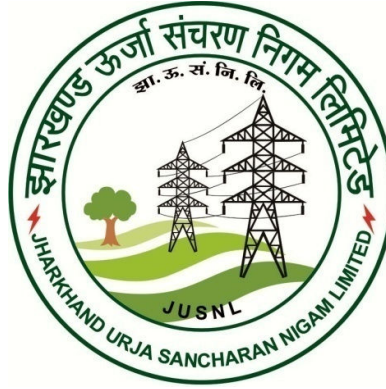
JHARKHAND URJA SANCHARAN NIGAM LIMITED

Transmission Circle Ranchi

**TECHNICAL SPECIFICATION AND GENERAL
CONDITION FOR**

**THE SUPPLY OF MICROPROCESSOR BASED HIGH PERFORMANCE HAND HELD
BATTERY OPERATED THERMAL IMAGER INCORPORATING IR FUSION
TECHNOLOGY.**

N.I.T. NO. 101/ PR/ JUSNL/ 2015 – 16



**LAST DATE & TIME OF
RECEIPT OF TENDER**

: Upto 13.30 Hrs. on 18/08/2015

DATE OF OPENING OF TENDER

: At 15.30 Hrs. on 18/08/2015

SOLD TO M/S

**COST = Rs5000/-
NON-REFUNDABLE**



JHARKHAND URJA SANCHARAN NIGAM LTD

CIN -U40108JH2013-SGC001704

Transmission Circle, Kusai colony, Ranchi 834002

email. esetcranchi.jusnl@gmail.com

NOTICE INVITING TENDER

NIT NO.101/ PR/ IUSNL/ 2015-16

Sealed tender in two parts each in duplicate i.e. Techno & Commercial (Part-I) and price offer(Part-II) are invited from manufacturers/Authorized dealers having sound financial status for Design, Manufacturing, testing, Training and supply of following material as per specification of NIT:

S. No.	Description of materials	Quantity in Nos.
1	THE SUPPLY OF MICROPROCESSOR BASED HIGH PERFORMANCE HAND HELD BATTERY OPERATED THERMAL IMAGER INCORPORATING IR FUSION TECHNOLOGY	01No.
Earnest Money deposit in Rupees Rs 31200/- (Rupees Thirty One Thousand Two Hundred Only)		
Cost of Tender specification Document Rs 5000/- (Rs. Five Thousands Only)		
Date of Submission of Tender Up to 13.30 hrs of 18/08/2015		
Date of opening of tender(Part-I) 18/08/2015 .at 03.30 PM		

Terms and Conditions:

The Bidder should have the following Qualifying Requirements (QR):

- I. The tenderer should be a manufacturer/Authorized dealer.
- II. The bidders should have to submit past experience of successful execution of similar material under Govt./ Semi Govt. / CPSU/SPSU/ SEB's/Reputed IPPs.
- III. The average annual financial turnover of bidder during the last 03 (three) financial years, ending 31st March of the previous financial year should be at least Rs. 1.0 Crore.
- IV. The bidder should have experience of having successfully completed similar orders during last five years ending last day of month previous to the one in which applications are invited.
- V. The bidder should have financial credibility /capacity of at least estimated cost. Bidder may submit Bank Solvency Certificate of any Indian Nationalized / Scheduled Commercial Bank in support of their financial credibility /capacity.



- VI. The tender document can be purchased from the office of Electrical Superintending Engineer Transmission Circle, Ranchi on payment of cost of tender Documents in shape of DD or may be downloaded from the office website www.juvnl.org.in. The cost of tender document shall be deposited at the time of submission of tender paper in the shape of Bank Draft issued by any Nationalized/Scheduled Bank in favour of “ **Accounts officer, Transmission Circle, Ranchi**”, payable at Ranchi. Tender shall not be considered without cost of tender document. Any type of tempering/alteration with tender document shall not be allowed and offer, if submitted so, will be summarily rejected.
- VII. Tender without Earnest Money shall not be considered. Offers shall be accompanied with the cost of tender document and earnest money deposit (EMD) of requisite value as specified above in a separate envelope ‘A’ failing which offers are liable for rejection. EMD may be furnished in form of Demand Draft/ Bank Guarantee from any Indian Nationalized Bank/ Schedule Commercial Bank in favour of “**Accounts officer, Transmission Circle**”, payable at Ranchi. The Bank Guarantee should remain valid for guarantee period 24 months from date of commissioning or 30 months from date of receipt whichever earlier.
- VIII. The Earnest Money will be forfeited on revocation of tender before expiry of validity of the tender or on refusal to enter into the contract after the award is made by JUSNL to the bidder.
- IX. Any Corrigendum/Addendum/Extension of bid opening date and cancellation of NIT will be published through our website www.juvnl.org.in only and through newspaper. The bidders are requested to visit our website regularly for any addendum/corrigendum/extension till opening of NIT.
- X. The due date of bid opening as mentioned in the tender will remain firm. However, in case of unforeseen circumstances or due to administrative reasons the bids are not opened on the due date, the same shall be opened on the next working day at the same time. In case the last date of submission of bids is declared as holiday, the bids received up to the time of closing of bids on the next working day shall be considered for opening.
- XI. The undersigned reserves the right to reject any or all tenders or to distribute the job among the bidders without assigning any reason thereof.
- XII. For any clarification please contact Mobile No. 9431707301.

Sd/-

Electrical Superintending Engineer
Transmission Circle, Ranchi

Memo No...../Ranchi

Dated.....

Copy forwarded to DGM(Public Relation), JUVNL, Ranchi for publication in Local and National daily newspapers for wide circulation of this notice and uploading on the JUVNL website www.juvnl.org.in.

Electrical Superintending Engineer
Transmission Circle, Ranchi

Memo No...../Ranchi

Dated.....

Copy forwarded to Accounts officer, Transmission Circle, Ranchi for information and necessary action.

Electrical Superintending Engineer
Transmission Circle, Ranchi



JHARKHAND URJA SANCHARAN NIGAM LTD

CIN -U40108JH2013-SGC001704

Transmission Circle, Kusai colony, Ranchi 834002

email. esetcranchi.jusnl@gmail.com

NIT No. 101/JUSNL/PR/15-16

Due Date of opening of part-I 18/08/2015

General Terms and Conditions for Submission of Tender for

THE SUPPLY OF MICROPROCESSOR BASED HIGH PERFORMANCE HAND HELD BATTERY OPERATED THERMAL IMAGER INCORPORATING IR FUSION TECHNOLOGY.

INSTRUCTIONS TO TENDERERS

1.1 PREPARATION OF TENDER

- 1.1.1 Before submission of the Tender, the Tenderers are required to make themselves fully conversant with the Technical specification, Special Instructions to Tenderer, Instruction to Tender, General requirement of specification including schedules and General conditions of the contract of Form A/B as may be applicable so that no ambiguity arises at a later date in this respect.
- 1.1.2 Any inconsistency or ambiguity in the offers made by the Tenderer shall be interpreted to the maximum advantage of JUSNL and disadvantage to the Tenderer. The Tenderer shall have no right to question the interpretation of the Purchaser in all such cases and the same shall be binding on the Tenderer.
- 1.1.3 The tender should be prepared and submitted strictly in accordance with the instructions contained in these specifications. The tender shall be complete in all respects. Tender must be submitted in the manner specified on the attached prescribed schedules and/or copies thereof. To complete the proposal, the Tenderer must fill the tender form, declaration, all schedules and data sheets, annexed with the specification item by item in accordance with the instructions and notes supplementary thereto. The interpolations, insertions, cutting and corrections made in the tender offers should be duly initialed by the Tenderer.
- 1.1.4 Each Tenderer shall supply the data required in sheets annexed with the specification by typing at appropriate places against each item to facilitate preparation of comparative statements. These sheets must be properly signed by authorized representative of the Tenderer/ manufacturer testifying the data submitted. All schedules must be duly filled in and shall be enclosed with each copy of the tender. In case the Tenderer does not supply any of the required information at the time of tender, necessary loading may be made while evaluating the prices of his offer without giving him any further opportunity to supply or clarify the same. The Tenderers are notified that in case the required information are not furnished in the specified Performa/schedules attached with the specification, the Purchaser shall not be responsible for any error in the evaluation of their tenders on this account. Further the failure to comply with this requirement may result in the rejection of the tender at the discretion of the Purchaser.



1.1.5 A set of technical, descriptive and illustrative literature alongwith drawings must accompany each copy of the tender so that a clear understanding of the equipment offered is obtained. The tender sent by post must be posted by registered Post A/D sufficiently in advance so as to reach the Purchaser by the schedule date and time of submission of tender. Any tender received after the date and time of submission even on account of postal delay shall not be opened. The Tenderers are, therefore, requested to ensure in their own interest that the tenders are delivered in time.

TELEGRAPHIC TENDERS SHALL NOT BE CONSIDERED UNDER ANY CIRCUMTANCES

PREQUALIFYING CONDITIONS:

Tenders meeting following conditions only will be considered-

1.2.1 QUALIFICATION OF TENDERER

a) The Tenderers shall either themselves be manufacturers of the equipments offered or accredited representatives or authorised dealer of such manufacturers. Offers of experienced and working Contractors of JUSNL may also be considered provided proof of previous experience is furnished.

2.1 TESTING FACILITIES

The Tenderer must have all necessary facilities at their works for carrying out such routine and acceptance test as prescribed in the relevant IS and any other routine and acceptance test as specified in the specification. Documentary evidence of existence of such facilities will be filed alongwith the tender.

2.2 The offered equipment must have been fully type tested as per relevant IS. Photo copy of such type test reports/certificates must be submitted along with tender bid. The test certificates of proto type manufactured and tested by foreign collaborators of the Tenderer at their works shall not be acceptable for indigenously manufactured equipments.

3. DATE OF CONSIDERATION

The above cited experience shall be counted as on the date of opening of the tender.

All statements and claims should be duly supported by authenticated copies of documents without which the tender is liable to be rejected summarily.

4.0 SUBMISSION OF TENDER

4.1 Tender shall be received in two separate parts, each part shall be kept in double covers inner one being sealed :

i) Tender Bid Part-I:

(a) Shall contain Earnest Money and pre-qualifying details of tender. The sealed cover for this part of the bid shall be super scribed "Tender Bid – Part I"(Earnest Money)

II) Tender Bid Part-II.

This part shall contain prices and other technical and commercial particulars and cover containing this part shall be super scribed "Tender Bid Part-II" (Prices).



The envelopes of both the parts shall be kept in another envelope which shall also be sealed and super scribed on top as under “Tender for supply.....against NIT No...../PR/JUSNL/2015-16. Due date for opening

4.1.1 TENDER BID PART-I(EARNEST MONEY AND PRE QUALIFYING DETAIL ETC)

4.1.2 Tenderer is required to deposit earnest money as specified.

4.1.3 Offers without earnest money shall not be considered under any circumstances.

4.1.4 Besides the Earnest Money, other relevant information's and the following documents duly filled in must also accompany the tender bid part-1.

1. Schedule A : Tender Form
2. Schedule B : Documents regarding pre-qualifying details of the Tenderer.
3. Schedule C : Declaration
4. Schedule D : General Particulars
5. Schedule E : Experience Details

6. Complete technical details, specification and literature of the equipment offered.

7. Income Tax Clearance/PAN No.

4.2.1 TENDER BID PART II (PRICES)

1. Schedule F : Schedule of Quantity and Prices.

On the date of tender opening at appointed time, part-I of the tender shall be opened publicly in the presence of authorized representative of the bidders.

Tender Part-II of only those tenders who have deposited required Earnest Money in desired form shall be opened subsequently after technical evaluation & demonstration at site.

4.2.2 Any action on the part of the Tenderers to revise the prices and/or change the structure of price(s) at his own instance after the opening of the tender may result in rejection of the tender and/or debaring the Tenderer for participation in purchase by the Board for one year in first instance.

5.1 VALIDITY:

The tenders shall be valid for a period of six (6) calendar months from the date of opening of the tender or any extended date of opening. Tenders with lesser validity are liable to be rejected.

6.0 PRICE :1.The Tenderer must quote unit F.O.R. Destination FIRM prices of all the items (alongwith F.O.R. work prices) for despatch to destination Railway station/stores of JUSNL. The unit F.O.R. destination prices shall comprise of the following components.

- (a) Ex-work price
- (b) Packing and forwarding charges



- (c) Railway freight (d) Transit Insurance charges and 45 days storage after receipt of equipment at destination stores/
Substation against all risks.

The Tenderers must clearly specify these components individually besides the F.O.R. Destination prices.

f) Insurance for 45 days storage after receipt of equipment at destination station @ 0.5%

6.1.1 TAXES & DUTIES

The prices quoted should be exclusive of all taxes, duties, octroi charges etc which will be paid at actual on production of relevant original vouchers. Excise Duty will be livable on Ex-works prices only. However, the Tenderer must indicate the rate of various taxes/duties livable as on the date of tender opening. Form C/D will be obtained by the Contractor from the concerned consignees. In no case, Form C/D will be demanded through Bank.

7.0 EVALUATION OF TENDER :

7.1.1 In comparing tenders and in making awards, the purchaser may consider such factors as, compliance with specifications, relative quality and adaptability of suppliers or services, experiences, record of integrity in dealing, ability to furnish repairs and maintenance service, the time of delivery, capability to perform, and available facilities such as adequate shops, plant, equipment, technical organization etc.

7.1.2 In case prices of some items are given in lump sum where unit prices are required, purchaser reserves the right to evaluate unit prices on the basis of the quoted lump sum prices.

7.1.3 In case where a Tenderer does not quote F.O.R. destination price asked for their quoted unit prices shall be loaded by appropriate additional factors on ex-works prices as below :-

a)Packing @ (b) Forwarding
charge 0.75% charges @ 0.25%

c)Freight for Ist 500Kms @ 2% (d) Freight for every next 250Km

or part thereof 0.5%thereof.

(For this purpose distance shall be taken from supplier's station to Ranchi and in case the distance is less than 500Km loading shall be done for a minimum distance of 500 Km)

e) Transit Insurance @ 0.5%

7.1.4 No payment prior to despatch of materials shall be made by the Nigam under any circumstances. Tenderers are advised not to ask any such advance payment. Tenderers asking for advance payment are liable to be rejected.

7.1.5 Any rebate/discount linked with quantity terms of payments, any condition shall not be considered for the purpose evaluation and comparison of such offers vis & vis others. However, the same may be availed while placing order with successful Tenderers.



7.1.6 If the Tenderers fails to quote prices for any of the item/component as asked for or confirm its supply free of cost, the highest prices as quoted by other Tenderer for the same, shall be added to arrive at F.O.R. destination computed prices of such Tenderer for comparison purpose only.

7.1.7 The prices shall be compared inclusive of excise duty & Sales Tax/Trade Tax.

7.1.8 Loading on any account as may be deemed necessary in the opinion of the Purchaser to bring the various offers at par to each other for comparison purpose, may be done at the discretion of the Purchaser.

7.1.9 After downloading the Tender documents from our Web site www.juvnl.org.in the same may be submitted duly filled in with the required tender fee on the schedule date.

7.2 SPLITTING OF ORDER :

The purchaser reserves the right to split the order among various Tenderers in any manner he chooses without assigning any reason.

8.0 AWARD OF CONTRACT

8.1.1 The purchaser is not bound to accept the lowest or any tender and may reject any or all the tenders, without assigning any reason.

8.1.2 Successful tenderers, if required to do so, may have to enter into a contract agreement with the purchaser as per General conditions of form A/B and other special conditions attached with the tender specification.

8.1.3 For signing the contract a duly authorized representative of the successful Tenderer shall be required to sign and accept the contract at Ranchi at a reasonable notice.

8.1.4 Lowest evaluated tender shall be considered for award of tender.

8.1.5 Tenderers shall ensure to put initials on each and every page of the tender. Last page of each document forming part of the tender shall bear full signature under official seal fully disclosing the name, designation and relationship with the firm of the signatory. In case of partnership concern the tender may be signed by all the partners of the firm or by one of them holding power of autonomy (copy to be furnished along with the offer). In case of Nigam/ Companies tender may be signed either by the President or Secretary or any other person authorized to tender in the legal name of Nigam/ company (copy of such authority to be furnished along with the offer).

Besides the tenderers shall also furnish the following information :-

- i. Name, designation, profession with postal addresses of all the partners/ directors and others persons authorized to conduct business in respect of this tender.
- ii. Postal addresses of firm's works Regd. Head Office, Sales Office & Local office etc.
- iii. Names and postal address of their authorized local representative/Liaison officers.

8.2 INCOME TAX AND SALES TAX CLEARANCE CERTIFICATE

The Tenderer shall furnish with the tender, PAN No. ,Income Tax and Sales Tax Clearance Certificate of current, as well as of the preceding year, from the competent authority



alternatively. The Tenderer shall give valid reasons, for his inability to furnish such a certificate. The Purchaser reserves the right to reject any tender, if income tax/sales tax clearance certificates/PAN No. are not furnished or the reasons for the tenderers liability to furnish such certificates are not given in the tender.

9.0 CANVASSING :

No Tenderer shall canvass any Nigam's Official or the Engineer, with respect to his own or other tender contravention of this condition will result in rejection of the tender. This clauses shall not be deemed to prevent the Tenderer from supplying to the Engineer any further information/clarification asked for by the Engineer.

10.0 COURT OF COMPETENT JURISDICTION :

All disputes arising out of and touching or relating to the subject matter of agreement shall be subject to the jurisdiction of Local Courts of Ranchi and High Court of Judicature at Allahabad only.

11.0 ARBITRATION CLAUSE 31 OF FORM 'B'

The following is deemed to be added at the end of Part-1 in the Arbitration clause 31 of Form 'B'

"In case of refusal/neglect by such nominee, Chairman Cum Managing director UPPPCL may nominate another person in his place"

SPECIAL NOTE :

- 1.No modification in price reduction clause No. 27 of contract form B, shall be accepted i.e. broadly a price reduction of ½% per week subject to a maximum of 10% shall be applicable for delayed supply.
- 2.The payments beyond schedule delivery period will be made after reduction of the price considering the provision of price reduction clause depending on the delay. It would be possible to consider offers only if both the above conditions are acceptable.

Electrical Superintending Engineer



SECTION-II

GENERAL REQUIREMENTS OF SPECIFICATIONS

1.0 Scope :

This specification covers design, manufacture, performance, testing, inspection packing and delivery of the equipments with accessories and auxiliary equipment required for O&M work of 220KV and 132KV Transmission lines and Substations under Trans. Zone, Ranchi.

- 1.1. Equipments shall be offered complete with all parts are necessary of usual for their efficient operation. Such parts shall be deemed to be within Contractor's scope whether specifically mentioned or not. Equipments in all respects shall

incorporate the highest quality of modern engineering design and workmanship.

- 1.2. The General Conditions of Contract Form A/B copies of which are attached hereto. form an integral part of this specification. The contractor shall supply all material in strict accordance therewith in the event of conflict between and General Conditions of Contract and this specification, the later shall prevail.
- 1.3. The General requirement of specifications comprise of this chapter and detailed technical specification. These are supplementary to each other and essential for complete interpretation of the Purchaser's requirement.

2.0 STANDARDS :

- 2.1 Except as modified by this tender specification, all material and equipment shall conform to the requirement of the latest editions of relevant IS.

2.2 Should the Tenderer wish to depart from the provisions of the specifications, either on account of manufacturing practices or for any other reason, he shall clearly mention the departure and submit complete justification supported by information, drawings etc as will enable to access the suitability of equipments offered.

In the event of the tender's specifications, drawings, forms and tables etc. being found to disagree with the requirement of this specification at any stage, these specification shall be binding, unless the departures have been duly approved in writing by the purchaser.

3.0 TESTING INSPECTION

3.1 TESTING

Purchaser shall have the right to witness any type, routine and acceptance test on the equipment offered.

Witnessing of test or their approval would not relieve the contractor of his responsibility to supply the equipment as per his specification.

4.0 QUALITY ASSURANCE PROGRAMME

- 4.1 The Contractor shall ensure strict quality assurance over all the manufacturing, testing, processing and other activities, whether at his works or his sub-contractor's work, including the suppliers of the raw materials etc.



Detailed Quality Assurance Program(QAP) will be submitted with the tender, giving step by step checks and counter checks, tests, sampling procedures etc to ensure quality of the equipment to meet the requirements. This shall also include the test details for type, routine and acceptance test required. Such QAP shall be approved by the purchaser before implementation.

5. INSPECTION :

- 5.1 The Purchaser reserves the right to inspect any machinery and materials to ensure that approved QAP is being strictly implemented by the Contractor or his Sub contractor/ supplier under this contract, and to reject any item found defective in workmanship or design, or otherwise unsuitable for the use and purpose intended or which is not in accordance with the intent of this contract. The contractor should, on demand by the purchase, rectify or replace such defective or unsuitable equipment, or the purchaser may, at the contractor's expense, rectify or replace such defective or unsuitable equipment, whether before or after supply.
- 5.2 The Purchaser's Inspecting Engineers shall at all times have access to all part of shops where the equipment is being manufactured and also shall be provided with all reasonable inspection facilities by the contractor and/or his such contractors.

No equipment to be furnished or used in connection with this contract shall be dispatched until inspection acceptance tests are carried out satisfactorily. Such pre- dispatch inspection of the equipment or approval of acceptance tests shall not however, relieve, the contractor for full responsibility for supplying equipments

confirming to the requirements of this contract, not prejudice or any claim, right or privilege which the purchaser may have because of the use of defective or unsatisfactory equipment Should purchaser waive the right to inspect any equipment, such waiver shall not relieve the contractor any way from obligation under this contract.

6 PACKING & DESPATCH OF EQUIPMENT

- 6.1 All equipment/material shall be suitably packed for transport, carriage at site and outdoor storage during transit. The Contractor shall be responsible for any damages to the equipment during transit due to improper and inadequate packing. Any material found short inside the packing cases shall be supplied by the contractor without any extra cost. Tenderer shall ascertain, prior to shipment from concerned authorities, the transport limitations, like weight and maximum allowable package size of transportations. All packing cases and packing material shall become the property of the Purchaser.
- 6.1.1 The equipment/material shall be dispatched to the consignee. The detailed dispatch instructions will be intimated to the successful tenderer. The contractor shall intimate, at least ten days in advance to the consignee(s) as well as to the Engineer, telegraphic intimation shall also be given to the consignee(s) immediately after the dispatch of equipment mentioning the specification number and approximate weight of each package to enable him to take the delivery and unload the material in case the dispatch documents are not received by him in time.
- 6.1.2 A list in duplicate containing details of equipment for verification at site shall also be placed inside each package and shall correspond with the advice note and approved bill of materials.



6.1.3 Bill(s) duly pre-receipted in triplicate in accordance with approved terms of payment and together with all necessary dispatch documents, shall be sent to consignee(s) under registered cover with intimation to Engineer of the Contract.

6.1.4 Any demurrage/wharfage or other charge payable due to non implementation of any of the above instructions shall be to contractor's account.

7.0 REJECTION

7.1 Purchaser reserves the right to reject any equipment if, during the tests at works or site, the test value achieved, do not comply with the respective standard/ specification and exceeds the tolerable limits.

7.2 Contractor shall replace a rejected equipment with a new equipment, complying with the guaranteed values as promptly as possible and at no extra cost to the

purchaser. Purchaser reserves the right to retain any rejected equipment and take it into service until the contractor supplies the new equipment.

8.0 MODE OF DESPATCH

8.1. The equipment are to be dispatched from Contractor's work to specified destination as per the dispatch instructions given by the Engineer(Consignees).

9.0 INSURANCE

9.1. The contractor shall arrange, secure maintain insurance as may be necessary to protect his own interests and the interests of the JUSNL against all risks. The risks that are to be covered under the insurance shall include, but not be limited to the loss or damage in transit, theft, pilferage/riot, civil commotion, weather conditions, accidents, or all kinds of fire, war risks during ocean transportation only etc

9.1 Insurance is to be taken FOR destination value of the equipment for transit from the manufacturers warehouse to the Purchaser's warehouse plus 45 days storage thereafter.

9.2 All damages and shortages of the equipment after its delivery to destination railway station and transportation to stores and storage thereafter shall be notified by the consignee, by registered post to contractor or his authorized representative, within 30 days for making good the damage of loss by way of replacement or the equipment damage or lost.

9.2.1 The contractor shall take up the matter with insurance company for finalisation of claims and Purchaser shall provide required information. All further action in connection with making and settling of claims, if any will be carried out by the contractor for which no extra payment will be made.

9.2.2 The contractor shall be responsible to make good the damage or loss by way of repairs and/or replacement or equipment free of cost irrespective of the fact whether claims is accepted by the insurance Co. or not, without waiting for claims settlement.

9.2.3 The scope of such insurance shall cover the entire value of the contract from time to time.



9 TERMS OF PAYMENT

- 9.1** 100% payment will be made by Accounts Officer, Transmission Circle, Ranchi JUSNL, Ranchi on submission of 10% Bank Guarantee from any Nationalized Bank of ordered value on non-judicial stamp Rs. 100/- (Rupees One Hundred) only valid for Guarantee period and on receipt of SRV duly signed by the concerned consignee after receipt of the materials in good condition at site, installation, commissioning and Training and on presentation of
- i) Supplier Invoice showing LOA reference, goods description, quality, unit price and total amount
 - ii) Proof of excise payment as per excise rules, if applicable.
 - iii) Delivery Challan iv) Lorry/ Goods/ Courier doc.
 - v) Factory Test reports vi) Prior submission of CPG as per contract provisions.
 - vii) Transit Insurance certificate
 - viii) Acceptance Certificate/ taking over Certificate by respective consignee. along with approved routine test certificate, and duly filled check list for payment .
- 9.2.** No advance payment shall be admissible under any circumstances whatsoever.
- 9.3.** Signing of LOA, submission of CPG(Contract Performance Guarantee) and signing of Contract Agreement shall be a prerequisite for release of payment. CPG shall be submitted to JUSNL within 30 days of the placement of LOA.
- 9.4** Bills shall be submitted to the respective consignees for verification and forwarding of the same to the paying authority.
- 9.5** Tenderers may note that terms of payment through letter of credit are not acceptable.

10 DELIVERY

- 10.1** The material shall have to be supplied within 90 days which shall be counted from the date of issue of letter of intent or detailed order as the case may be.
- 10.2** Date of dispatch documents (R/R) shall be counted as the date of delivery. In case of dispatch by road transport the date of receipt of goods at site/JUSNL store shall be treated as date of delivery.
- 10.3** Delivery should be quoted specifically and explicitly and should be guaranteed under price reduction clause of form A/B.

11 DEVIATION FROM SPECIFICATION

This specification is mainly for guidance of the Tenderer/manufacturer. These requirement of necessity include some specific elements of construction and materials, but are not intended to preclude ingenuity or design or improvement.

If the Tenderer proposes any deviations/ from this specification these will be considered provided they are necessary either to improve the utility, performance and efficiency or to secure overall economy. This will be clearly and explicitly explained in the tender such deviations shall also be brought out clause by clause in the prescribed schedule.

12 PERFORMANCE GUARANTEE

The tenderer shall have to deposit a performance bank guarantee amounting to 10% of the contract value, valid for 12 month from actual date of commissioning of equipment or 18



months from the date of receipt of equipment at site, as guarantee towards the actual and faithful performance of the equipment being supplied under this specification.

13 QUANTITY

The quantities mentioned in this specification are subject to increase or decrease as per actual requirement of the purchaser at the unit prices mentioned in price schedule. This increase or decrease shall be limited to ±20%.

Electrical Superintending Engineer



SCHEDULE -A TENDER FORM

This should be typed on the printed letter head of the Tenderer

The address given hereby shall be the address for all future correspondence.

From,

M/s.....

.....

.....

Tel. No. :

Fax No. :

To, The Electrical Superintending Engineer , Transmission Circle, Ranchi , JUSNL, Kusai, Ranchi-834002, Jharkhand

Sir,

With reference to your invitation to tender no....., for.....I/we hereby offer the Electrical Superintending Engineer , Transmission Circle, Ranchi , JUSNL, Kusai, Ranchi-834002, Jharkhand the items in the schedule of prices and delivery annexed or such portion thereof as you determine in strict accordance with the annexed condition of Contract form of 'A'/'B' specification and schedules of rates to the satisfaction of the purchaser or in default thereof to forfeit and pay to the Electrical Superintending Engineer , Transmission Circle, Ranchi , JUSNL, Kusai, Ranchi-834002, Jharkhand the same money mentioned in the said conditions.

The rates quoted are inclusive prorata and in full satisfaction of all claims.

I/We agree to abide by the terms of this tender for the period of Six months from the date of opening the same.

A sum of Rs.....in the form of CDR/FDR as Earnest Money duly pledged in favour of Accounts Officer, Transmission Circle, Ranchi, Ranchi is being submitted to you, the full amount of which shall be retained by the Electrical Superintending Engineer , Transmission Circle, Ranchi , JUSNL, Kusai, Ranchi-834002, Jharkhand against Security Deposit specified in Clause 3 of the said condition of the Contract Form 'A' & 'B'.

I/We hereby undertake and agree to execute a contract in the form annexed in accordance with the condition of Contract.

Yours faithfully

Signature of Tenderer

Date.....day of2015

Witness.....

Address.....

Occupation.....



SCHEDULE 'C'

(To be executed on a non judicial stamp paper of Rs.10/- with a revenue stamp of Re.1/- affixed)

Tender
invited
by

Tender
for

Name of
Tenderer.....

NIT No. /PR/JUSNL/2015-16 and date of Opening

IN CONSIDERATION of the JUSNL Having treated the Tenderer to be an eligible person whose tender may be considered, the Tenderer hereby agrees to the condition that the proposal in response to the above invitation shall not be withdrawn within six months (or any extension thereof) from the date of opening of the tender, also to the condition that if thereafter the Tenderer does withdraw his proposal within the said period, the Earnest Money deposited by him may be forfeited to the JUSNL And at the discretion of the Purchaser, the purchaser may be debar the Tenderer from tendering for a minimum period of one year reckoned from the date of opening of the tender.

Signed this.....day of.....2015.

Place.....

signed by.....

Witness.....



<u>SCHEDULE OF GENERAL PARTICULAR</u>		
1.	Name of Tenderer/manufacturer	.....
2.	Address of Tenderer/Manufacturer	.....
3.	Telephonic address	.....
4.	Name & address of officer to the Tenderer/manufacturer to whom all references shall be made for expediting technical correspondence.	..... .....
5.	Place of manufacturer	.....
6.	Current S.T. Registration No. with DG&SI	.....
7.	Service facilities available	.....
8.	Availability of spare parts	.....
9.	Tender proposal No. & Date	.....
10.	Proposed Validity period	.....
11.	Earnest Money as desired and in the form mentioned in clause of instructions submitted or not	.....
12.	Amount of Earnest Money	.....
13.	No. & Date of Bank Guarantee	.....
14.	Bank Guarantee valid up to	.....
15.	Terms of Payment as laid down in general conditions of contract acceptable.	Yes/NO
16.	Penalty for delay in delivery acceptable	Yes/NO
17.	All technical particulars called for in schedule and prices	Yes/NO
18.	Have deviation, if any been pointed out specially and separately.	Yes/NO
19.	Tenderer is agreeable to supply the required items in case of deviation stipulated by him are not acceptable to the JUSNL.	Yes/NO
20.	Have you enclosed Income Tax clearance Certificate/PAN No.	Yes/NO

SIGNATURE OF TENDERER



SCHEDULE - E

EXPERIENCE DETAILS

Sl. No.	Name & Address of Department/Unit	Order No.& Date	Amount	Details of supply	Whether order copy enclosed

SIGNATURE OF TENDERER



TECHNICAL SPECIFICATION FOR SUPPLY OF MICROPROCESSOR BASED HIGH PERFORMANCE HAND DELD BATTERY OPERATED THERMAL IMAGER INCORPORATING IR FUSION TECHNOLOGY (320X240 PIXELS)

Sr. No.	DESCRIPTION	TENDER SPECIFICATIONS
1	Function & Scope	<p>The infrared Thermal imaging and temperature measurement camera should be fully automated and shall be useful for thermo-vision scanning, having capability to identify hot spots and loose connections in sub-stations and transmission lines up to 400/765 kV. The camera shall have the laser pointing facility and shall have built in high resolution colour screen (LCD/TFT min.4" size).</p> <p>The instrument shall be agronomic, portable and battery operated. The infrared thermal imaging and measurement system should be based on un-cooled focal plane array (UFPA) technology. It shall also have a built in digital colour visual camera of minimum 3 Mega pixels, thus creating a colour visual image of corresponding thermal image. It should be possible to store the thermal and visual image together. (Thermal fusion-merging visual and thermal images).</p>
2	Thermal Imaging Performance	<p>The thermal detector of the Thermo-vision camera should be based on the Focal Plane Array, un-cooled micro-bolometer technology with minimum 600 x 450 pixels.</p> <p>It should have minimum Thermal sensitivity of the order of 0.05° at 30° Centigrade or better.</p> <p>The Image Frequency should be such that the buffering effect shall not come on display.</p> <p>The Spectral Range should be of the order of 7.5 to 14 μm or better. The Thermo-vision camera shall be supplied with the standard lens and an additional telephoto lens.</p> <p>The minimum focus distance of the camera for standard lens and telephoto lens shall be such that it does not affect measurement in switchyard & transmission lines.</p> <p>The Thermo-vision camera shall have Automatic /smart as well as manual focus. It should also have electronic/ digital zoom for IR function of 4X or better.</p>
	a. Spatial Resolution (IFOV)	<p>Standard Lens: 1.75 mrad or less.</p> <p>Telephoto Lens: 0.65 mrad or less.</p>



Sr. No.	DESCRIPTION	TENDER SPECIFICATIONS
	b. Lens (Horizontal FOV):	Standard Lens: 24° or more. Telephoto Lens: 11° or less.
3	Temperature measurement range & accuracy	0 to 350°C or more with accuracy of ± 2% of reading or ± 2°C.
4	Emissivity Correction	The camera shall have automatic temperature correction facility for emissivity (emissivity range 0.1 to 1).
5	LCD and Indicators	The system shall have a tilt-able (min. 90°) touch based LCD display or tiltable lens. Display shall be properly visible in sunlight. Camera shall also have status indications to view the status of battery, power mode indication etc.
6	Physical Characteristics	The system should be lightweight, hand-held with on-board rechargeable, field replaceable battery. The thermo vision camera shall also operate on 230 V AC supply ± 10 % and camera battery shall also get charged with this while the camera is in operation. Separate battery charger and spare battery shall also be provided. The equipment shall be well balanced for one hand operation. Hand/ Neck straps should be provided for safety of Camera while using in field. The total weight of the thermo vision camera including battery, memory card, LCD display, laser pointer, and Standard as well as Tele- lens shall not exceed 1.75 kg.
7	Battery operation time	Camera battery (preferably Li-Ion) shall have sufficient power for 4 hours of continuous operation with LCD display ON.
8	Output	The camera shall have video output CCIR/PAL composite video/ S-video.
9	Voice Recording / Text annotation	The system shall have the voice annotation (voice recording) facility for not less than 30 seconds per image and voice recording shall be tagged to particular image or the system shall have provision to attach pre-defined text on each image file. Infrared image along with corresponding visual image and voice recording or text annotation shall be linked together.
10	Image storage capacity	The system shall be supplied with minimum of 2 GB flash memory card (internal / external).



Sr. No.	DESCRIPTION	TENDER SPECIFICATIONS
11	Image storage facilities	The camera should store (in selectable built in flash memory or flash memory card in selectable directory) the image in full radiometric JPEG format, with date and time stampings along with all technical parameters and atmospheric conditions corresponding to image, in addition to visual image, voice/ text annotation. If required, operator shall have the facility to recall, analyze, save, and delete the images in the field including the replay and edit of its voice/text annotation. It shall be possible for operator to view the live images/ recalled image details. Camera shall have the facility to freeze/ hold the image and store a single image or multiple of images either continuously or periodically. While saving the image, the camera shall automatically prompt for saving of voice or text annotation and visual image. It shall also be possible to store only IR images with or without voice/text annotation or IR image.
12	Measurement function	The thermo vision camera shall measure absolute temperature of hotspots and have auto spot function (auto placement of cursor at min or max temperature). It shall be possible to create movable cross-hairs/ spots in the live/freeze image. The temperature of each cross-hair/ spot shall be displayed in the screen itself. It shall be possible to create different areas with continuously adjustable dimensions and position in an image with their selectable max., min., and average temperature display. All the area shall be movable and shall give maximum and minimum temperature value and its position within the area. It shall be possible to manually adjust emissivity (preferably with an online help table), reflected temperature, distance for individual spot as well as for individual area. The laser locator shall be active in IR mode with push button. The camera should have all the required standard palettes/ colour schemes (minimum 8 palettes).
13	Software	The analyzing software (to be provided along with the Camera) shall be windows based, simple to operate, compatible to IR and visual camera images and capable of providing comprehensive report generation facility in addition to image analysis and post processing. It should also be possible to insert a visual image (photo) as well as text object in the report. The software should include professional and advanced tools for extensive image analysis & reporting.
14	Accessories	All the required accessories like PC/ video inter phase cables, Power supply cables, Sun shield, Batteries, Battery Charger (in addition to the AC adopter), Standby battery set, Operating Manual, Original CD and software, Application CD, Hard carrying case etc. should be provided.
15	Operating conditions (with all accessories)	Shall operate at Temperature 0 to 50°C, Relative Humidity: 10 to 90% non- condensing.



Sr. No.	DESCRIPTION	TENDER SPECIFICATIONS
16	Safety Standards	Thermo vision camera shall have minimum protection grade of IP-54. The unit shall meet all EMC emission, immunity standards as per IEC/ EN 61000-4-4, IEC/ EN 61000-4-2 and IEC/ EN 61000-4-8 respectively with CE marking to work in EHV areas without any interference. Copy of relevant certificates shall be furnished along with the bid
17	Demonstration	The acceptance of the Instrument shall be subject to the successful demonstration by supplier to the satisfaction of JUSNL at prescribed site. During the demonstration, if the instrument is found not up to the mark/ not meeting working requirements of JUSNL, the same shall be summarily rejected and repeated attempts shall not be permitted.
18	Warranty	Camera shall be guaranteed for minimum 2 year.
19	After Sales Support	The OEM should have their own / authorised service set-up in India to provide full repair services locally. A declaration containing all information regarding such establishment (address of service centre, contact person, telephone & fax number) has to be submitted along with bid. If the OEM does not have any service facility in India, all to & fro transportation charges for the camera for each time sending to OEM's service centre has to be borne by the bidder till end of the camera life. A declaration agreeing such condition has to be submitted along with the bid.
20	AMC	<p>Supplier will have to execute comprehensive AMC for Three years for smooth and reliable operation of the camera even after the completion of Warranty period. If the Camera needs to be shifted to supplier's works for repairs, supplier will have to bear the cost of transportation, transit insurance (to & fro) spares etc for repair at works. Camera shall be returned after repairs within thirty (30) days from date of despatch from JUSNL.</p> <p>The rates shall be quoted along with the bid and same shall be taken into consideration during evaluation of bids. The AMC shall cover as much as visits for repairs to site along with spares parts for required rectification/ replacement of parts/components.</p> <p>All the expenses for maintaining supplied instrument in "Healthy and working condition" are to be borne by successful bidder during the AMC period if 3 years within the charges of AMC as per LOA.</p>
21	Training	Supplier shall have to ensure the camera is made user friendly for the JUSNL engineers in addition to the detailed demonstrations at site. Apart from this, the supplier shall also provide all the "technical know-how" to the JUSNL Engineers as and when required, during the tenure of guarantee as well as AMC period.



Sr. No.	DESCRIPTION	TENDER SPECIFICATIONS
22	Commissioning, Handing Over of the Instrument	Successful Bidder will have to commission the instrument to the satisfaction of JUSNL. The instrument failed during the demo shall be rejected and no repairs are allowed.
23	Calibration	Supplier shall have adequate calibration facility in India by its own or tied up with any NABL. A declaration regarding such calibration facility in India has to be submitted along with the Bid.

ELECTRICAL SUPERINTENDING ENGINEER



ITEMS/ACCESSORIES TO BE SUPPLIED FOR EACH MICROPROCESSOR BASED HIGH PERFORMANCE HAND HELD BATTERY OPERATED THERMAL IMAGER INCORPORATING IR FUSION TECHNOLOGY

S.No.	Description	Quantity per Thermal Imager Camera
1	IR imager basic unit of thermal imager	01 no.
2	Hard transport carrying case	01 no.
3	Standard lens with cap	01 no.
4	Telescopic lens with cap	01 no.
5	Software with free software upgrades for 5 years or more original license software c.d. should be supplied. complete free software for multiple user	01 no.
6	Removable memory/Flash card	01 no.
7	USB cable or RS232 compatible cable	01 no.
8	Power cord with universal AC mains adapter	01 no.
9	Battery	02 no.
10	Battery charger	01 no.
11	Hand strap	01 no.
12	Operating Manual (English)	02 no.
13	Warranty Certificate	02 years
14	Calibration Certificate	01 no.
15	Laptop with carrying case compatible with the offered camera-Intel i7 2.4 GHZ, 4 GB ram, 500 GB HDD, DVD writer, 15.6" screen	01 no.
	Details of model offered	

SPECIAL TERMS AND CONDITIONS

- 1.Product should be guaranteed/warranted for a minimum of two year from manufacturing defect.
- 2.Product to be procured from the authorised dealer/manufacturer only.
- 3.Supplier must submit manufacturer test and calibration certificate.
- 4.Bidder must provide training to our engineers from Level I certified Thermographer. Bidder to submit certificate of Level I Certified Thermographer alongwith technical bid. Demonstration & Training shall be imparted atleast at 04 designated zonewise centre.
- 5.Atleast 5 cameras single order, either similar or better than offered model and make should be operational in electricity Nigam or power grid within India.
- 6.Should have its own authorised service centre, preferably with Black Body. OEM certificate should be enclosed.
- 7.The make & model no. of Thermal Imager should be mentioned in the column above.

ELECTRICAL SUPERINTENDING ENGINEER



SCHEDULE OF QUANTITIES & PRICES
NIT No...../PR/JUSNL/2015-16

Sl, No.	Item	Qty.	Ex-works	Packing & Forwarding Freight	Transit Cum 45 days Storage Insurance	Total For Destination Prices.
1.	Microprocessor based High Performance Hand Held Battery Operated Thermal Imager Incorporating IR-Fusion Technology.	01No.				
Total ₹.						

(₹.)

Terms & Conditions :-

- 1- PRICES
- 2- DELIVERY PERIOD
- 3- VAT/CST
- 4- PAYMENT
- 5- VALIDITY
- 6- EXCISE DUTY

SIGNATURE WITH SEAL OF FIRM



Format for BG

GUARANTEE BOND TOWARDS Earnest Money Deposit

B G No:
Date:
Valid Up To:
Amount:

In Favor of,

THIS DEED OF GUARANTEE IS MADE THIS

Constitution with detailed address including its head office) (hereinafter called the bank which expression shall, where the context so admits include its successor and permitted assign) of the one part and the Jharkhand Urja Sancharan Nigam Ltd. being the Nigam constituted under section 131, 133 and other applicable provisions of the Electricity Act, 2003 having its Corporate office at Engineering Building, Dhurwa, ranchi-824 004 (hereinafter called “the Nigam” which expression shall, where the context so admits include its successor and permitted assign) of the other part.

1. Whereas _____ being a company registered under the Indian Companies Act having a registered office at _____ (hereinafter called “ The said contractor (s) entered into an Purchase Order No. dated for the Nigam Purchase order”

2. Whereas, in a accordance with clause of Terms & conditions of the said purchase order, the Nigam has agreed to make a payment to the said contractor (s) of Rs. being cost of equipment/project to 10% percent of value of contract under the said agreement/ the said purchase order on presentation by the said contractors(s) of the bank Guarantee duly approved by the Nigam for Rs. (Rupees) only being 10% percent of the value of the contract,

And Where as, in accordance with clause of Terms & conditions of the said purchase order, the Bank has at request of the said contractor (s) agreed to give their guarantee and the Nigam has agreed to accept the said Bank Guarantee for the aforesaid sum.

Now THESE PERESENT WITNESETH AS FOLLOWS: In consideration of the Nigam having agreed to make a payment to the said contractor (s) of Rs..... as per terms and conditions mentioned in the said purchase order, on presentation of Bank guarantee for Rs. (Rupees) only, we do hereby undertake to pay to the Nigam an amount not exceeding s Rs.- against any damage or non payment or Suffered or would be caused to be suffered by



the reason of any breach by the said contractor (s) of the terms and conditions contained in the said purchase order.

3. We bank to hereby undertake to pay the amount due and payable under this guarantee without any demur, merely on demand, from the Nigam stating that amount claimed is due to way of loss or damage caused to or would be closed to or suffered by the Nigam stating by reason of any breach of the said contractor (s) of any of the terms and condition

contained in the said agreement / the said purchase order or by reason of the said contractors' (s) failure to perform the said purchase order. Any such demand on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However our liability under this guarantee shall be restricted to an amount not exceeding Rs.

4. We. Bank further agree that the guarantee herein contained remain in full force and effect during the period that would be taken for the performance of the said Purchase order and that it shall continue to be enforceable till all the dues of the Nigam under or by virtue of the said purchase order has been fully paid and its claims satisfied or discharged or till the Nigam certifies that the terms and conditions of the said purchase order fully and properly carried out by the said contractor(s) and accordingly discharges the guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before validity we shall be discharged from all liability under this guarantee thereafter.

5. we, Bank further agree with Nigam that the Nigam shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any to the terms and conditions of the said agreement/ the said work order or to extent time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time , any or the powers exercisable by the Nigam against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement the said purchase order and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any forbearance act of commission on the part of the Nigam or any indulgence by the Nigam to the said contractor(s) the said purchase order or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

6. We, Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Nigam in writing.

Date: