

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	16-07-2024 16:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	16-07-2024 16:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	80 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Heavy Industries And Public Enterprises
Department Name/विभाग का नाम	Department Of Heavy Industry
Organisation Name/संगठन का नाम	Bharat Heavy Electricals Limited (bhel)
Office Name/कार्यालय का नाम	10210015-pser
Total Quantity/कुल मात्रा	1
Item Category/मद केटेगरी	DRONE - Unmanned Aerial Vehicle & Payload Systems for Surveillance
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट	No
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Experience Criteria,Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	Yes
RA Qualification Rule	H1-Highest Priced Bid Elimination
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	2 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No

Bid Details/बिड विवरण	
Payment Timelines	Payments shall be made to the Seller within 90 days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation

EMD Detail/ईएमडी विवरण

Required/आवश्यकता	No
-------------------	----

ePBG Detail/ईपीबीजी विवरण

Required/आवश्यकता	No
-------------------	----

Splitting/विभाजन

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
--	-----

MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
---	-----

1. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023. [OM No.1_4_2021_PPD_dated_18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

2. Purchase preference will be given to MSEs having valid Udyam Registration and whose credentials are

validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service and Buyer will decide eligibility for purchase preference based on documentary evidence submitted, while evaluating the bid. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM No. F.1/4/2021-PPD dated 18.05.2023 [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

3. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- If number of technically qualified bidders are only 2 or 3.
- If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

DRONE - Unmanned Aerial Vehicle & Payload Systems For Surveillance (1 set)

(Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively/क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक)

Technical Specifications/तकनीकी विशिष्टियाँ

Buyer Specification Document/क्रेता विशिष्टि दस्तावेज़	Download
---	--------------------------

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Quantity/मात्रा	Delivery Days/डिलीवरी के दिन
1	Rajeev Kumar	496440,BHEL site office, 2X800 MW NTPC LARA Thermal Project Site, LARA , Pussore, Chhapora, Lohakhan, Chhattisgarh 496440	1	15

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Scope of Supply

Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators and providing Statutory Clearances required (if any)

2. Generic

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

3. Generic

Installation, Commissioning, Testing, Configuration, Training (if any - which ever is applicable as per scope of supply) is to be carried out by OEM / OEM Certified resource or OEM authorised Reseller.

4. Generic

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

5. Generic

Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:

- i) The Seller fails to comply with any material term of the Contract.
- ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
- iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
- iv) The Seller becomes bankrupt or goes into liquidation.
- v) The Seller makes a general assignment for the benefit of creditors.
- vi) A receiver is appointed for any substantial property owned by the Seller.
- vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.

6. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

PRE-QUALIFYING CRITERIA

JOB	SUPPLY OF 01 NO DRONE - Unmanned Aerial Vehicle & Payload Systems for Surveillance for 2X800MW Lara Super Thermal Power Station, Stage-II
-----	---

SL NO	CRITERIA
-------	----------

1.0	FINANCIAL CRITERIA :
	<p>A) BIDDER SHOULD HAVE AVERAGE MINIMUM ANNUAL FINANCIAL TURNOVER OF Rs. 1.80 LACS DURING THREE CONSECUTIVE FINANCIAL YEARS 2020-21, 2021-22 & 2022-23 AND SHOULD SUBMIT THEIR AUDITED BALANCE SHEET AND PROFIT & LOSS ACCOUNT IN SUPPORT OF THE SAME.</p> <p>B) IN CASE AUDITED BALANCE SHEET AND PROFIT & LOSS ACCOUNT HAS NOT BEEN SUBMITTED FOR THAT THREE CONSECUTIVE YEARS INDICATED ABOVE, THEN THE APPLICABLE FINANCIAL AUDITED STATEMENTS SUBMITTED BY THE BIDDERS AGAINST THE REQUISITE YEARS WILL BE AVERAGED FOR THREE YEARS.</p> <p>C) IF FINANCIAL STATEMENTS ARE NOT REQUIRED TO BE AUDITED STATUTORILY, THEN INSTEAD OF AUDITED FINANCIAL STATEMENTS, FINANCIAL STATEMENTS ARE REQUIRED TO BE CERTIFIED BY CHARTERED ACCOUNTANT.</p>
2.0	TECHNICAL CRITERIA:
2.1	<p>THE BIDDER SHOULD HAVE PREVIOUS EXPERIENCE OF SUPPLYING DRONE AS PER TECHNICAL SPECIFICATION ATTACHED TO GOVT / PSU/ REPUTED ORGANISATIONS IN LAST THREE YEARS AS ON LAST DATE OF BIDS SUBMISSION.</p> <p>RELEVANT DOCUMENTS IN SUPPORT OF THE ABOVE SHALL BE SUBMITTED.</p>
2.2	<p>THE BIDDER SHOULD HAVE VALID LICENSE FOR MANUFACTURING OF DRONE OR AUTHORIZED RESELLER OF DRONE. RELEVANT DOCUMENTS NEED TO BE SUBMITTED IN SUPPORT OF ABOVE. FOR RESELLER VENDOR NEEDS TO SUBMIT NECESSARY OEM AUTHORIZATION ALONG WITH LICENSE AND DOCUMENT FOR RESALE RIGHT (AS APPLICABLE)</p>

NOTES

A	AFTER SATISFACTORY FULFILMENT OF ABOVE CRITERIA, OFFER SHALL BE CONSIDERED FOR FURTHER EVALUATION AND PARTICIPATION AS PER NIT AND ALL OTHER TERMS OF TENDER.
B	BIDDER SHOULD SUBMIT VALID PAN OF INDIA.

1. SCOPE OF WORK:

- a. SUPPLY, COMMISSIONING & TRAINING FOR 01 NO DRONE - UNMANNED AERIAL VEHICLE FOR 2X800MW LARA SUPER THERMAL POWER STATION, STAGE-II
- b. DEMONSTRATION TO HANDLING 10 MAN DAYS.

2. TAXES AND DUTIES:

2.1 Bidder's quoted/ accepted rates/ price shall be inclusive of all taxes including GST, Charges, Royalties, any State or Central Levy and other taxes for materials if any obtained for the work and for execution of the contract.

Any increase of above at any stage during execution of contract, including extension of the contract, shall have to be borne by successful bidder contractor. However, any increase of GST subsequent to due date of offer submission as per NIT & TCN, by statutory authority during contract period (including extension, if the same is not attributable to you), shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL.

Benefit of any decrease of taxes including GST, Charges, Royalties, any State or Central Levy and other taxes for materials if any obtained for the work and for execution of the contract; subsequent to due date of offer submission as per NIT & TCN, by statutory authority shall be passed on to BHEL.

2.2 Successful bidder shall furnish proof of GST registration with GSTN Portal covering the services under this contract.

Registration should also bear endorsement for the premises from where the billing shall be done by successful bidder on BHEL for this project / work.

2.3 Since GST on output will be paid by BHEL as enumerated above, bidder's quoted rates / price should be after considering the Input Credit under GST law at bidder's end.

2.4 TDS under Income Tax Act shall be deducted as per prevailing IT rules from the bills.

2.5 TDS under GST shall be deducted as per prevailing GST rules from the bills.

2.6.1 You may collect TCS under section 206C(1H) of Income Tax Act, 1961 if applicable.

2.6.2 In case, you collect TCS under section 206C(1H) of Income Tax Act, 1961, following compliance is required.

2.6.2.1 TAN and PAN of vendor should appear in all invoices/claims. Copy of TAN /TCS registration is to be submitted.

2.6.2.2 Amount of TCS and Assessable value on which TCS has been calculated should be specified clearly in the invoice.

2.6.2.3 You shall be required to submit certificate of TCS in Form no. 27D within 15 days from the due date for furnishing the statement of tax collected at the source.

2.6.3 In case, you do not collect TCS under section 206C(1H) of Income Tax Act, 1961,

following declaration is to be submitted along with each invoice: -

"I/We hereby declare that I/We are not required to collect TCS under section 206C(1H) of Income Tax Act, 1961, on this bill.

2.6.4 In event of failure to comply with the provisions of the Act, or proper certificate not issued, or if tax collected but not remitted to the Government, or for any other reason and thereby causing loss to BHEL, the same shall be recoverable from the vendor with applicable interest.

2.6.5 You shall comply with all statutory amendment/notifications in this respect.

2.7 Bidder shall note that GST Tax Invoice complying with GST Invoice Rules (Section 31 of GST Act & Rules referred thereunder) wherein the 'Bill To' details shall encompass following.

BHEL GSTN - 22AAACB4146P1ZP.

Name - BHARAT HEAVY ELECTRICALS LIMITED Address - General Manager Project, BHEL SITE OF FICE, 2X800MW Lara Super Thermal Power Station, Stage-II, PO-Pussore, Village-Chhapora, Dist. - Raigarh, Chhattisgarh-496440.

Specific details of BHEL GSTN, Name and Address as stated above, have been specified elsewhere in the tender

2.8 Successful bidder to intimate immediately on the day of removal of goods (in case of any supply of goods) to BHEL along with all relevant details and send a scanned copy of Tax Invoice to BHEL through following communication mode for enabling BHEL to meet its GST related compliances.

Portal address and Email address - Shall be intimated later.

Specific details of above shall be intimated to successful bidder by BHEL at appropriate juncture.

2.9 In case of delay in submission of above-mentioned documents on the date of dispatch, BHEL may incur penalty/ interest for not adhering to Invoicing Rules under GST Law. The same will be liable to be recovered from successful bidder, in case such delay is not attributable to BHEL.

2.10 In case of raising any Supplementary Tax Invoice (Debit / Credit Note), successful bidder shall issue the same containing all the details as referred to in Section 34 read with Section 31 of GST Act & Rules referred there under.

2.11 Successful bidder shall comply with the Time Limit prescribed under the GST Law and rules thereof for raising of the Tax Invoice. If any supply of goods is applicable, successful bidder shall also ensure prompt delivery of goods after dispatch.

2.12 Bidder shall note that in case GST credit is delayed / denied to BHEL due to delayed / non-receipt of goods and / or Tax Invoice or expiry of the timeline prescribed in GST Law for availing such ITC, or any other reasons, not attributable to BHEL, GST amount shall be recoverable from successful bidder along with interest levied/ leviable on BHEL, as the case may be.

2.13 Successful bidder shall upload the invoices raised on BHEL in IFF/GSTR-1 within the prescribed time as given in the GST Act, and the same should be available to BHEL in FORM GSTR-2B electronically through the common portal; and confirmation of payment of such GST to the Government through filing of GSTR-3B of corresponding month/quarter.

Bidder shall note that in case of delay in declaring such invoice in your return and GST credit availed by BHEL is denied or reversed subsequently as per GST Law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from the successful bidder along with interest levied / leviable on BHEL.

2.14 Successful bidder to arrange for e-waybill for any movement of goods for the execution of the contract. Successful bidder has to make their own arrangement at their cost for completing the formalities, if required, with Issuing Authorities, for bringing materials, plants & machinery at site for execution of the works under this contract, Road Permit / Way Bill, if required, shall be arranged by successful bidder and BHEL will not supply any Road Permit/ Way Bill for this purpose.

2.15 Any new taxes & duties, if imposed subsequent to due date of offer submission as per NIT & TCN, by statutory authority during contract period (including extension, if the same is not attributable to you), shall be reimbursed by BHEL on production of relevant supporting document to the satisfaction of BHEL. However, you shall obtain prior approval from BHEL before depositing new taxes and duties.

2.16 Benefits and / or abolition of all existing taxes must be passed on to BHEL against new taxes, if any, proposed to be introduced at a later date.

3. MODE OF DISPATCH & ROAD PERMIT:

Mode of dispatch: Mixed

E-way bill / road permit (if applicable) to be arranged by supplier.

4. **EVALUATION CRITERIA:** "All Inclusive Total F.O.R Destination Price including GST & BOCW Cess for SUPPLY, COMMISSIONING and DEMONSTRATION" i.e. [(Total Basic Price for supply + Freight + Transit Insurance, including GST) + (Total Commissioning & Demonstration Charges including GST & BOCW Cess)]"

5. PAYMENT TERMS:

- (a) 80% of Supply value excluding GST & BOCW Cess shall be payable within 90 days (45 days for MSE, 60 days for Medium Enterprises) from the date of receipt of Tax Invoice along with Accessories, Calibration Certificate, Warranty/ Guarantee certificate, Consignment Note (if applicable), LR copy (if applicable), Endorsed Way Bill (if applicable), Receipt of Delivery Chalan, Type certificate, MDCC (if applicable), O&M Manual, Certificate of Newness, Circuit Diagram etc. certified by BHEL, as applicable.
- (b) Balance 20% of Supply value after successful completion of training of 10-man days excluding GST & BOCW Cess, as applicable shall be payable on submission of Commissioning certificate issued by BHEL.
- (c) GST portion of invoice shall be released only upon -
 - (i) You declaring such Invoice in your IFF/GSTR-1; and the same should be available to BHEL in FORM GSTR-2B electronically through the common portal, and
 - (ii) Receipt of Goods / services and Tax Invoice by BHEL, and
 - (iii) Confirmation of payment of GST thereon by you on GSTN Portal; and confirmation of payment of such GST to the Government through filing of GSTR-3B of corresponding month/quarter.
 - (iv) Above is subject to receipt of goods (Material Receipt Certificate-MRC) / service (Engineering Protocol) and tax invoice by BHEL thereof along with vendor declaring invoice in his return and paying GST within timeline prescribed for availing ITC by BHEL. GST along with any Interest if levied thereon for reasons elaborated in Tax clause of the tender which is not attributable to BHEL will be recovered from the Final Payment / Retention.
 - No advance shall be paid.
 - Payment shall be paid in INR only.
 - Payment shall be through RTGS only.
 - Paying Authority: RAO, BHEL-LARA SITE.

6. DOCUMENTS REQUIRED ALONG WITH DISPATCH OF MATERIAL (Billing Documents):

The following documents are required with dispatch:

- i. Original Tax Invoice.
- ii. Copy of LR.
- iii. Type Certificate (DGCA).

7. CONSIGNEE DETAILS:

RAJEEV KUMAR,
BHEL site office, 2X800 MW NTPC LARA Thermal Project Site, LARA, Pussore, Chhapora, Lohakh
an, Chhattisgarh 496440

8. Liquidated Damages/Penalty:

Subject to force majeure, If vendor fails to complete the job as per aforesaid supply/commissioning period, BHEL shall have the right to recover as penalty as below. Penalty on delay in supply and/or commissioning will be applicable to the delays attributed to vendor. Penalty will be considered separately for Supply & commissioning:

- a) The rate of penalty for delayed Supply shall be @0.5% per week of delay of total PO value (Supply + Commissioning & Demonstration) excluding GST & BOCW Cess as applicable in Supply subject to maximum of 10% of total PO value (Supply + Commissioning & Demonstration) excluding GST & BOCW Cess.
- b) The rate of penalty for delayed Commissioning & Demonstration shall be @0.5% per week of delay of total PO value (Supply + Commissioning & Demonstration) excluding GST & BOCW Cess as applicable in commissioning subject to maximum of 10% of total PO value (Supply + Commissioning & Demonstration) excluding GST & BOCW Cess.
- c) Maximum penalty for delay in Supply, Commissioning & Demonstration together shall be limited to 10% of total PO value (Supply, Commissioning & Demonstration) excluding GST & BOCW Cess as applicable.

For purpose of penalty for delay in Supply of the equipment, the duration will be reckoned from the date of PO by BHEL.

For purpose of penalty for delay in Commissioning & Demonstration of the equipment, the duration will be reckoned from the date of intimation by BHEL to vendor for readiness of site/equipment.

9. Delivery address:

General Manager Project,
BHEL SITE OFFICE,
2X800MW Lara Super Thermal Power Station, Stage-II,
PO-Pussore, Village-Chhapora,

Dist. – Raigarh, Chhattisgarh-496440

10. **Transit Insurance:** In Vendor Scope

11. **Warranty / Guarantee:** 02 Years Warranty / Guarantee directly from OEM, from the date of commissioning.

12. **Delivery Period:**

a. **Supply:** Within 15 Days from the date of P.O.

b. **Commissioning & Demonstration:** Within 07 Days from receipt of material at site.

13. **PVC:** Not applicable

14. **ORDER OF PRECEDENCE:**

In case of contradiction / conflict, the order of precedence shall be in the order as per below;

- a) Buyer specific ADDITIONAL TERMS AND CONDITIONS against GeM Bid issued
- b) GeM Bid
- c) General Terms and Conditions on GeM.

SI No	DESCRIPTION	Chapter
Volume-I A	Part-I: Contract specific details	
1	Project Information	Chapter-I
2	Scope of Works and Technical Specifications & Tentative Technical Details	Chapter-II

TECHNICAL CONDITIONS OF CONTRACT (T CC)

Chapter – I: Project Information

Page 1/4

Sl. No.	Description	Details
1	Project Title	2X800MW Lara Super Thermal Power Station, Stage-II
2	Customer	National Thermal Power Corporation Limited (NTPC Limited)

3	Location	The project is located in Raigarh district of Chhattisgarh State. The project is located south-east of Raigarh town near village Lara, bounded by villages Lara, Chhapora & Lohakhan and on the western side of Odisha State boundary.
4	Nearest Railway Station	The project site is approachable from N H-200 (Raigarh-Sarangarh) via Kondatara through State PWD Road.
5	Nearest Airport	The nearest commercial airport, Jarsuguda is about 90 kms from the project site.
6	Access By Road/Major Cities	The project site is approachable from N H-200 (Raigarh-Sarangarh) via Kondatara through State PWD Road..
7	Temperature	Mean of daily minimum temperature = 13.2°C Mean of daily maximum temperature = 41.8°C
8	Seismic Zone	The project site lies in zone III as defined in IS: 1893.
9	Wind Speed	Design wind speed is 6-9 m/sec as per IS: 875 Part III. – or 28 KMPH Approx .
10	Address	Construction Manager, BHEL Site Office 2X800 MW NTPC Lara Super Thermal Power Station PO-Pussore, Village-Chhapora Dist – Raigarh, Chhattisgarh-496440

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-II : Scope of Works and Technical Specifications & Tentative Technical Details

Page 2/4

2.0 SCOPE OF WORK.

The work under these specifications broadly covers the complete work of supply, transportation, assembly, testing, commissioning and demonstration to handling and **handing over of 01 NO DRONE - Unmanned Aerial Vehicle**, as per following brief scope;

Brief description of scope:

1. Quantity of DRONE- 01 No. including as below mentioned technical specification:

Drone - Unmanned Aerial Vehicle & Payload Systems for Surveillance. HIGHLIGHTED POINTS ARE		Compliance
01	Drone-based safety monitoring shall be done during the day to monitor critical works at a close range. The images/ Video feed from the drone shall have sufficient resolution to identify the work under progress	
02	Drone should support 1 Mtr position accuracy.	
03	The Drone must have 4K or better resolution camera for high quality pictures & video taking	
04	It must have 2 nos. of chargers & minimum Four (4) sets of batteries Drone should be supplied with a handheld Remote-Control module. Should have pluggable storage or physical data transfer mechanism . Sufficient storage for capturing complete flight period 4K video.	

05	Drone should support Self deployment and landing	
06	Drones should support auto takeoff and landing . The user shall be able to define the path of flight through the Mobile/Drone control terminal (Android/iO's supported) , The drone should complete the path survey & return to its place of origin	
07	The following features must be supported by Drone Geofencing, return home, GPS redundancy, return home on communication failure, and return to home on low battery	
08	Drone has to be Industrial grade, Durable, corrosion resistant and weatherproof	
09	Continuous flight time should be minimum 40 minutes. Range 3 KM or more	
10	Drone must have universal ports	
11	IP rating of Drone should be IP 43 or better	
12	Operating Frequency Should be 2.4 -2.483 GHz or 5.725-5.85 GHz	
13	Payload for Drone + cameras must support up to 2 KGs. (AUW - All up weight should not exceed 2Kgs.)	
14	The drone should be DGCA-type certified,	
15	The drone should take screenshots from GCS (ground control system)	
16	Bidder to provide training from qualified personnel for Drone operation to NTPC personnel. Training man days shall be 10 nos (on site)	
17	Drone (UAV) should be purchased on the name of the employer & necessary ID (shall be intimated later) as mandated by GOI must be taken. Bidder has to arrange / support to get necessary statutory clearance (if any) for use of the same for Drone-based surveillance within Plant premise.	

18	The drone should have with hard transportation box, Transportation damage protection with vendor scope, All kind of damage protection (including demonstration) etc are with vendor scope till completion of handing over.	
19	Monitor critical work at close range and the live feed should be available to 2/3 geo location . Necessary cloud storage (10GB) with access license at lease 3 nos concurrent viewer licenses should be available for viewing live feed. Vendor to provide necessary portal/feed for the same. (capacity average 2 flight per day) Apart from cloud – mechanism for local storage should be present (memory stick) . for transferring of data to physical server.	

1. Transportation of material to Lara Project Site.(transportation
2. Assembly, testing, commissioning.
3. Demonstration to Handling.
4. Bidder to strictly follow all the necessary guidelines issued by Customer.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-II : Scope of Works and Technical Specifications & Tentative Technical Details

Data sheet for Drone

Parameters	Specifications	C o m p l i a n c e
(Type Certification)	DGCA	
Application	Surveillance	
Endurance	45 Minutes approx (>40 Minutes)	
Max AUW	<=2kg	

Range	Up to 3km or more	
Wind Resistance	Max 8m/s (approx)	
Max Launch Altitude	4500 m AMSL (+/- 500)	
Max Operating Altitude	500 m AGL I 120 m AGL (As per D GCA) (approx)	
Max Cruise Speed	Maximum 6-9 m/s	
Nomimal Cruise Speed	6 m/s	
Communication Link	Digital Duplex	
Propulsion System	Electric Propulsion	
Launch and Recovery Area	5m x 5m	
Operational Terperature	(-)10 to + 50 Deg C	
Flight Modes	Position Mode - RPV Autonomous Mode - Waypoint Navigation	
Failsafe Modes	RTL on Comm failsafe	
	RTL on Low Battery	
Setup Time	< 5 min	
Payload	i) 4K Camera	
Payload Features	i) 6x Digital Zoom	

	ii) Video feed to GCG	
Payload Stabilization and Freedom	i) 3 Axis Stabilized	
	ii) Pitch (-) 135 to +45 deg.	
	iii) Yaw (-) 160 to +160 deg	
	iv) Roll (-) 30 to + 30 deg	

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---