



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2024/B/5660592
Dated/दिनांक : 28-11-2024

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	19-12-2024 21:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	19-12-2024 21:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	180 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Mines
Department Name/विभाग का नाम	Na
Organisation Name/संगठन का नाम	Jawaharlal Nehru Aluminium Research Development And Design Centre (jnarddc)
Office Name/कार्यालय का नाम	West
Total Quantity/कुल मात्रा	1
Item Category/मद केटेगरी	Handheld XRF
GeMARPTS में खोजी गई स्ट्रिंग / Searched Strings used in GeMARPTS	Handheld XRF
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Aluminium Cup for XRF Instrument, Handheld Digital Infrared Thermometer, Digital Handheld Transceiver Set (HANDHELD RADIO), Spare / Add On Battery Packs For Transceiver - Handheld, Handheld Forensic Magnifiers, Explosives / Narcotics Trace Detector, Analog Transceiver - Handheld, Water Quality Meters / Analyzers, Handheld Electric Blower, hand held metal detector - security metal detector
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none">• 300mA X - Ray Machine (V2)• 500 mA X - Ray Machine (V2)• X Ray Machine (200 mA)
Minimum Average Annual Turnover of the bidder (For 3 Years)/बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का)	13 Lakh (s)
OEM Average Turnover (Last 3 Years)/मूल उपकरण निर्माता का औसत टर्नओवर (गत 3 वर्षों का)	100 Lakh (s)
Years of Past Experience Required for same/similar service/उन्हीं/समान सेवाओं के लिए अपेक्षित विगत अनुभव के वर्ष	3 Year (s)

Bid Details/बिड विवरण	
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,Past Performance,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,OEM Annual Turnover,Additional Doc 1 (Requested in ATC),Compliance of BoQ specification and supporting document *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
Do you want to show documents uploaded by bidders to all bidders participated in bid?/	No
Past Performance/विगत प्रदर्शन	80 %
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
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	3 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation
Arbitration Clause	No
Mediation Clause	No

EMD Detail/ईएमडी विवरण

Advisory Bank/एडवाइजरी बैंक	IDBI Bank
EMD Amount/ईएमडी राशि	75000

ePBG Detail/ईपीबीजी विवरण

Advisory Bank/एडवाइजरी बैंक	IDBI Bank
ePBG Percentage(%) / ईपीबीजी प्रतिशत (%)	5.00
Duration of ePBG required (Months) / ईपीबीजी की अपेक्षित अवधि (महीने).	14

(a). EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy./जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने है। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।

(b). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable./ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए।

Beneficiary/लाभार्थी :

Senior Administrative Officer

West, NA, Jawaharlal Nehru Aluminium Research Development and Design Centre (JNARDDC), Ministry of Mines (R Srinivasan)

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	Yes
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
3. OEM Turn Over Criteria: The minimum average annual financial turnover of the OEM of the offered product during the last three years, ending on 31st March of the previous financial year, should be as indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the OEM is less than 3 year old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
4. 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.

5. 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.

6. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 80% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

Handheld XRF (1 pieces)

(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
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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	Lalit Mohan	440023,Opp Wadi Police Station Amarawati Road	1	90

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

1. **Generic**

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. **Generic**

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address

JNARDDC
Opposite Wadi Police Station
Amravati Road
Wadi
Nagpur - 440023

3. **Generic**

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to the maximum of quoted GST %.

4. **Generic**

Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.

5. **Generic**

End User Certificate: Wherever Bidders are insisting for End User Certificate from the Buyer, same shall be provided in Buyer's standard format only.

6. **Generic**

Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.

7. **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.

8. **Generic**

Manufacturer Authorization:Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

9. **Generic**

Scope of supply includes Training: Number of employees to be trained

2

, Place for Training
JNARDDC, Nagpur
and Duration of training

2
days.

10. **Generic**

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

11. **Generic**

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

12. **Inspection**

Nominated Inspection Agency: On behalf of the Buyer organization, any one of the following Inspection Agency would be conducting inspection of stores before acceptance:
Pre-dispatch Inspection at Seller Premises (applicable only if pre-dispatch inspection clause has been selected in ATC):

Not Required

Post Receipt Inspection at consignee site before acceptance of stores:
After Installation & Configuration

13. **Forms of EMD and PBG**

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

JNARDDC
payable at
Nagpur

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

14. **Forms of EMD and PBG**

Bidders can also submit the EMD with Banker's Cheque in favour of

JNARDDC
payable at
Nagpur

Bidder has to upload scanned copy / proof of the BC along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

15. **Forms of EMD and PBG**

Bidders can also submit the EMD with Payment online through RTGS / internet banking in Beneficiary name

JNARDDC
Account No.
041104000192392
IFSC Code
IBKL0000041
Bank Name
IDBI Bank
Branch address
Gupta House, Rabindranath Tagore Road, Civil Lines, Nagpur - 440001

Bidder to indicate bid number and name of bidding entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer along with bid.

16. Forms of EMD and PBG

Successful Bidder can submit the Performance Security in the form of Account Payee Demand Draft also (besides PBG which is allowed as per GeM GTC). DD should be made in favour of

JNARDDC
payable at
Nagpur

. After award of contract, Successful Bidder can upload scanned copy of the DD in place of PBG and has to ensure delivery of hard copy to the original DD to the Buyer within 15 days of award of contract.

17. Forms of EMD and PBG

Successful Bidder can submit the Performance Security in the form of Payment online through RTGS / internet banking also (besides PBG which is allowed as per GeM GTC). On-line payment shall be in Beneficiary name

JNARDDC
Account No.
041104000192392
IFSC Code
IBKL0000041
Bank Name
IDBI Bank
Branch address

Gupta House, Rabindranath Tagore Road, Civil Lines, Nagpur - 440001

. Successful Bidder to indicate Contract number and name of Seller entity in the transaction details field at the time of on-line transfer. Bidder has to upload scanned copy / proof of the Online Payment Transfer in place of PBG within 15 days of award of contract.

18. Warranty

Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

19. Scope of Supply

Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

20. Service & Support

Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

21. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

1. Catalogue of the offered product must be submitted with bid documents for technical evaluation. Catalogue and offered model submitted with this bid must be available at OEM website. Fabricated /customized catalogue will not be accepted.

2. If any deviation in offered model with JNARDDC technical specifications, same to be mentioned in technical compliance sheet.

3. Demonstration of offered model will be the part of technical evaluation. JNARDDC reserve the rights to ask any bidder to arrange demonstrate the offered model.

4. In technical specification, Part A, Generation specification (Point no A9), Three year comprehensive warranty 03 years after commissioning mentioned. Same may be ignored and read as minimum 01 year stand ard warranty after the date of installation. Bidder may quote the price with 01 year warranty period which includes detector damage also.

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 कार्यवाई का आधार होगा।

---Thank You/धन्यवाद---

Specifications for Handheld XRF

Jawaharlal Nehru Aluminium Research Development and Design Centre, Nagpur

Particulars		Page no
Part – A	General Specification	02
Part – B	Handheld XRF specification	03
Part – C	PC Software suit	05
Part – D	Manufacturer/supplier's credentials	05

Part – A: General Specification

	Parameter/ Specification	YES	NO
A1.	The scope includes metal-base handheld XRF, software, calibration, supply, testing & commissioning, training with all accessories, certified test blocks etc.		
A2.	Certified brochure of quoted handheld XRF to be provided with technical bid without it bid will be disqualified.		
A3.	Handheld XRF shall be factory calibrated and shall also have provision for onsite calibrations		
A4.	All original calibration and test certificates shall be provided, wherever applicable.		
A5.	Printed as well as soft copy of operational manual and maintenance or service manual shall be provided.		
A6.	Compliance with International standards/ directives on safety for the personnel and the equipment. Provide certificates for which quoted model complies.		
A7.	Quoted model of Handheld XRF should not have been launched before 5 years, and currently in production model only shall be quoted (Required in OEM's letterhead) .		
A8.	Guaranteed service support (including spares) for not less than 7 years for the quoted Handheld XRF after the discontinuation of the quoted/ supplied model. (Required in OEM's letterhead) .		
A9.	Three-year comprehensive warranty after commissioning. In case of detector physical damage, the company shall replace the detector free of cost .		
A10.	Service requests are to be attended within a week's time		
A11.	Demonstration of the quoted equipment will be part of technical evaluation process		
A12.	Firm should have facility to carry out onsite calibration, if required.		
A13.	Details of the accredited (NABL/ other international) testing infrastructure/ facilities available with supplier/ OEM to be furnished with bid.		

Part – B: Handheld XRF specification

	Parameter/ Specification	YES	NO
B1.	Metal-base portable Handheld XRF is intended to be used for Positive material identification (PMI), onsite sorting of scrap and shall have calibrations for minimum following elements or better Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Se, Zr, Nb, Rh, Pd, Ag, Cd, In, Sn, Sb, Ta, W, Pt, Au, Pb, Bi, Al, Si, S, P, Mg, Ca, Na, Sr, Ga		
B2.	Detector of equipment shall be a graphene window Silicon Drift Detector (SDD) for high sensitivity and high resolution (<145 eV).		
B3.	Equipment shall have a detector shield to protect the detector from getting damaged—lifetime protection to be guaranteed against any damage to detectors.		
B4.	Continuous analysis in the field without detector cooling or any other problem		
B5.	5-position filter for enhanced spectral range coverage or better		
B6.	Measurement time shall be 2-20 sec and shall not take more than 20 sec to analyze lighter elements accurately.		
B7.	In the case of high-purity light alloy samples, the measurement results should give distinguished values among light elements (like Al, Mg, Si etc.,) and not as a combined result of light elements (LE).		
B8.	Software should have Fundamental and Empirical calibration inbuilt		
B9.	The weight of equipment should be less than 2.5 kg (lightweight for ease of operation)		
B10.	Equipment shall have an X-ray tube with Rh target, 6-50kV, 5-200 μ A, 4 W or better		
B11.	Equipment shall be capable of data transfer with WiFi, Bluetooth, USB memory stick		
B12.	Spot size for detection shall be 5 mm or better		
B13.	Equipment shall be capable of operation from -10°C to +50°C temperature and 10% to 90% relative humidity. Equipment shall also be capable of analysing samples up to 350°C temperature for intermittent use.		
B14.	CRM blocks shall be provided for at least one each for steel, aluminium, copper, lead and zinc-based alloys		
B15.	Integrated camera for recording and locating measurement points and GPS for identifying location of testing		
B16.	A protective window, a docking station and a portable attachable small sample chamber are to be provided.		
B17.	Large Touchscreen LCD with daylight visible & good resolution for the result display.		

B18.	Internal Data storage for 10000 readings or better		
B19.	The data library should be vast, and the software shall be able to add more than 1000 new grades of steel, aluminium, copper, lead and zinc etc. OEM/ supplier will mention the number of grades existing with the data library of equipment for ferrous and non-ferrous alloys. Default alloy libraries shall be based on SAE, AISI, ASTM, JIS, EN, ANSI/AA, BIS, DIN, GB standards. Users may create, clone and edit libraries		
B20.	Waterproof and shockproof protective case for equipment.		
B21.	Equipment shall comply with IP54 protection rating or better		
B22.	Equipment shall comply with CE, RoHS, FCC, Safety to IEC 61010-1:2010. It shall comply to MIL-STD- 810G for vibration, drop and shock		
B23.	IR Proximity sensor for system safety		
B24.	Equipment shall have error diagnostic and troubleshooting features		

Part – C: PC Software suit			
	Parameter/ Specification	YES	NO
C1.	Analytical software shall include results display and export to various formats.		
C2.	Software package for PC (Windows 10) for report generation and spectrum viewing, Instrument control, measurements and communications including automatic diagnostic system of key functions, and troubleshooting system		
C3.	Free upgradation of the PC software for at least 5 years, whenever a new version is released		
C4.	Free upgradation of equipment firmware for at least 5 years, whenever a new version is released		

Part – D: Manufacturer/supplier's credentials			
	Parameter/ Specification	YES	NO
D1.	Internationally reputed manufacture with track record of supply of Handheld XRF to renowned global R&D/ Industries		
D2.	Service Support must be available within India and number of OEM trained service engineers exclusively dedicated to Handheld XRF shall not be less than 02		
D3.	In addition to past experience of Govt order as per gem tender terms and conditions, testimonials (minimum 3 Nos, Govt /Pvt) for the quoted instrument from reputed Indian users including academic institutes (IITs, NITs), R&D organizations, and Private Industries to be provided with users latest contact details		
D4.	Minimum 10 years of manufacturing experience for handheld XRF . It should be provided on letter head of OEM		

Bidder have to submit bid with catalogue for technical evaluation.

If any deviation in technical specification, same to be provided in deviation table .