

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
VIKRAM SARABHAI SPACE CENTRE (VSSC)
THIRUVANANTHAPURAM**

Tender for 15T FLP EOT cranes

Bids to be submitted online

Tender No.: VSSC/PURCHASE UNIT III (SPRE)/VS202100186101 dated 30-08-2021

A. Tender Details

Tender No :	VSSC/PURCHASE UNIT III (SPRE)/VS202100186101
Tender Date :	30-08-2021
Tender Classification:	GOODS
Purchase Entity :	PURCHASE UNIT III (SPRE)
Centre :	VIKRAM SARABHAI SPACE CENTRE (VSSC)

DESIGN, MANUFACTURE, SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF 15 TON DOUBLE GIRDER FLAME PROOF EOT CRANES AT BUILDING NO. R45B AND BUILDING NO. R43 AT RPP/VSSC

1. This is a TWO - PART bid. Price details shall NOT be mentioned in technical Bid, failing which the offer will be considered as invalid.
2. Foreign vendors are not permitted to quote. Quotations directly from foreign OEM/ or from agents quoting on behalf of foreign OEMs are not allowed to participate in this tender.
3. Only Class-I and Class-II Local suppliers as per Make in India Policy are eligible to participate in the bid.
4. a.The percentage of local content should be specifically mentioned in the offer, without which it will be summarily rejected.
b.Preference will be given to Class-I Local Supplier and in their absence, Class-II Local Supplier will be considered.
5. Last minute clarification on tenders will not be entertained.
6. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.
7. Technical Bids will be opened at the scheduled due date & time . No further intimation will be sent to you in this regard. Interested parties can attend the Technical Bid Opening to know the details.
8. IMPORTANT NOTE: This being a Two Part Tender, Cost/rates shall only be mentioned in the Price Bid Only. All the documents being uploaded like quote split up details, AMC cost etc should not contain the rates/costs. However a copy of your PRICE BID,AMC quote etc WITHOUT PRICE SHALL BE UPLOADED in the Documents Solicited from the Vendor Field[available in Bid forms] TO KNOW THE PATTERN OF QUOTE.[ENSURE NOT TO MENTION ANY PRICE,OTHERWISE THE QUOTE WILLBE INVALID.]
9. Site visit allowed before quoting in order to access the actual Scope of work. For arranging site visit kindly Contact Shri.Trayambak Tiwari, Scientist Engineer, TRMF/RPP, VSSC(Ph No. 0471 256 2803; email ID: trayambak_tiwari@vssc.gov.in) for arranging entry pass.

A.1 Tender Schedule

Bid Submission Start Date : 30-08-2021 12:00

Bid Clarification Due Date : 10-09-2021 11:00

Bid Submission Due Date : 01-10-2021 11:00

Bid Opening Date : 01-10-2021 11:01

Price Bid Opening Date : 01-10-2021 11:03

B. Tender Attachments

Technical Write-up/Drawings

Document : Technical annexure

Instructions To Vendors

2. Specific Terms and Conditions to Tender (detailed)

1. The other attached forms are our standard terms and conditions, which are to be complied with. If any conflict arise between the specific terms and standard terms, then in those cases, the specific terms will prevail over the standard terms.
2. Where agents participate in a tender;
 - (a) Either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.
 - (b) If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
3. Wherever samples are required to be submitted along with the quotation, offer without sample will not be considered.
4. If any bidder submits forged / false document along with the tender, offer of such vendors will be summarily rejected and such bidders will be blacklisted for all future tenders.
5. In order to avail of the benefits extended to by Govt. of India to the Micro and Small Sectors, please submit attested copy of the valid Entrepreneur Memorandum Part-II signed by the General Manager, District Industries Centre / Udyog Adhar / NSIC Registration Certification along with your offer.
6. Note: SD, LD and PBG clauses are mandatory and offers of the vendors who have not agreed for the above conditions will be excluded from the procurement process. Micro and Small Vendors are not exempted from the submission of Security Deposit. Only Govt Departments/PSUs/PSEs can submit Indemnity Bond instead of Bank Guarantee towards SD/PBG.
7. Security Deposit: Wherever the offer value is Rs. 5.00 Lakhs or above, the successful tenderer should submit Security Deposit @ 3% of the order value by way of Bank Guarantee / FD Receipt. The Bank Guarantee shall be obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of all contractual obligations. If the Contractor is called upon by the Purchaser to deposit, Security and the Contractor fails to provide the

security within the period specified, such failure shall constitute a breach of the Contract, and the Purchaser shall be entitled to make other arrangements for the re-purchase of the stores Contracted at the risk of the Contractor. In case if Security Deposit is submitted and the contractor fails to execute the order, then the security deposit will be forfeited.

8. Performance Bank Guarantee: Wherever products offered carry warranty, the warranty should be for one year or as per manufacturers standard warranty term. Against such cases, please confirm submission of Performance Bank Guarantee. The Performance Bank Guarantee should be for 3% of the order value covering the warranty period obtained from any Scheduled Bank on Rs.200/- Non Judicial Stamp Paper and should be valid beyond 2 months from the completion of the warranty period. Alternately vendors can request for withholding 3% payment till completion of the warranty period.

9. Liquidated Damages: The delivery period quoted should be realistic. The delivery period so quoted and mentioned in the order is the essence of the order/contract. In case of delay in delivery of material as per the delivery schedule, Liquidated Damage @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value shall be levied. Wherever, installation and commissioning is also involved, the supply will be deemed to have been completed only when the entire Stores is supplied, installed and accepted.

10. Our standard payment term is 100% within 30 days for indigenous orders and Sight Draft for foreign orders.

11. In case of Foreign/Import Tenders:

- a.The bidder shall clearly mention the full ordering address in capital letters.
- b.The bidder shall clearly mention their bankers address including their SWIFT code compulsorily.
- c.Any change of address shall be compulsorily supported by Documentary proof issued either by Governmental agencies or by Chamber of Commerce.
- d.Foreign Principal's Proforma Invoice/quote indicating the Agency Commission payable to the Indian Agent and the nature of after sales service to be rendered by the Indian Agent.
- e.Copy of the Agency Agreement between the Foreign Principal and the Indian Agent, and the precise relationship between them their mutual interest in the business.
- f.Registration and Item empanelment of the Indian Agent.

12. Likewise, while executing the Purchase Order/Contract; the Indian Trader shall mandatorily submit the following:

- a.High Sea Sale Agreement.
- b.Invoice pertaining to the Indian Trader in INR and the invoice of the foreign vendor in foreign currency.

13. In case if any Bidder is submitting their Offer on HIGH SEA SALES BASIS: then the Indian Trader shall submit the following documents mandatorily along with their offer.

- a. The Import Export Code of the Indian Trader
- b. Bank Authorization Code of the Indian Trader
- c. GSTIN of the Indian Trader

14. As per Notification No. 5/2018-CUSTOMS DTD. 25/01/2018, we are eligible for concessional payment of customs duty and IGST. Hence CD & IGST element shall be specified separately in the quotation. Necessary exemption certificate shall be issued upon request.

15. Our standard delivery term is FOR, VSSC. In case any vendor offers delivery term of Ex-works, Packing and Forwarding charges if any should be indicated separately either as a percentage of the quoted rate or as a Lumpsum amount.

16. Please quote applicable GST separately.

(a) We are eligible for partial exemption of IGST vide Notification No: 47/2017-Integrated Tax (Rate) dtd 14/11/2017 and 45/2017-Central Tax (Rate) dtd 14/11/2017 issued by Dept. of Revenue, Ministry of Finance. Necessary Exemption Certificates will be issued on demand.

(b) We are eligible for partial exemption of CGST and SGST vide Notification No: 45/2017 dtd 14/11/2017 and No: 169/2017/TAXES dtd 15/11/2017 respectively. Necessary Exemption Certificates will be issued on demand.

17. The offer should be valid for a period of minimum 90 days from the date of opening of Tender.

18. Please upload the Technical Details / Catalogue / Data Sheets (wherever applicable)

3. Conditions for BIDDER FROM A COUNTRY WHICH SHARES LAND BORDER WITH INDIA

1. 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.

Competent Authority for the purpose of registration shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).

2.

Validity of Registration: Registration should be valid at the time of submission of bids and should be valid at the time of placement of order.

3. Any false declaration and non-compliance of the above would be a ground for immediate rejection of offer or termination of the contract and further legal action in accordance with the laws.

4. Instructions to Vendors

1. This is an E Tender. Hence Postal/Fax/Email tenders will not be accepted.
2. Last minute clarification on tenders will not be entertained.

C. Bid Templates

C.1 Technical Bid - 15T FLP EOT cranes

1. EOT Crane- For R45B facility- supply of double girder flame proof EOT crane with control panel and CT cable, drag chain etc.

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Safe Working Load (T)	15 Ton	Yes / No / Explain		
2	Type	Double girder plate fusion welded box type EOT crane	Yes / No / Explain		
3	Duty	Class M5 (equivalent Class II) As per IS: 807-1976. IS: 3177-1999 & 3938 with latest amendment for structure and mechanics.	Yes / No / Explain		
4	Location	Indoor – building No. R45B in RPP/VSSC	Yes / No / Explain		
5	Ambient temperature	30-40 degree centigrade	Yes / No / Explain		
6	Area classification	Hazardous Area (Zone-1, Flameproof, suitable for IIA /IIB Gases and temperature classification T4, IP 65)	Yes / No / Explain		
7	Rating of crane	1 hour	Yes / No / Explain		
8	Span	11.6 m (Approx)	Yes / No / Explain		
9	Height of lift	12.5m (Approx)	Yes / No / Explain		
10	Bay length	11.7 m (Approx)	Yes / No / Explain		
11	Hook approach	CT – preferably less than 1000 mm, LT preferably less than 1500 mm	Yes / No / Explain		

12	Operating Speed - Hoist	3.0 m/min (Main Speed) – 0.30 m/min (Micro Speed)	Yes / No / Explain		
13	Operating Speed - LT	5.0 m/min (Main Speed) – 0.3 to 0.5 m/min (Micro Speed)	Yes / No / Explain		
14	Operating Speed - CT	5.0 m/min (Main Speed) – 0.3 to 0.5 m/min (Micro Speed)	Yes / No / Explain		
15	Bridge girder & gantry rails	Double girder. Fabricated out of plate fusion welded box type construction. BIS CR profile or BS crane rail profiles for gantry rails.	Yes / No / Explain		
16	Type of hook	Standard forged single point “C” hook with spring loaded safety latch on thruster bearing for free swivel with lock conforming to IS: 3815	Yes / No / Explain		
17	Type of wheel	Double flanged wheels machined out of EN-8/EN-9 forging, hardened as per IS: 3177 and mounted on ‘L’ type bearings housings. The long travel and cross travel wheels shall be of non-sparking material such as high tensile brass/Phosphor bronze/gunmetal with suitable core material. Hardness of wheel MOC shall not be less than 275 BHN.	Yes / No / Explain		

18	Wire rope	Steel rope as per IS 2266 with 4 fall. The wire shall be made of steel with minimum tensile strength 1960 N/mm ² and shall be galvanized, non-lubricating type with 6x36 construction, preformed and non-rotating type. The rope shall be coated with suitable wire rope compound for lubrication and corrosion prevention.	Yes / No / Explain		
19	Brakes	CMRI certified flame proof, electrohydraulic thruster brake for all motions viz. hoist & CT.	Yes / No / Explain		
20	Bearings	Anti-friction ball roller bearings shall be provided	Yes / No / Explain		
21	Lubrication	Individual grease nipples shall be provided for grease lubrication points.	Yes / No / Explain		
22	Gear box	Integrated gear box or Totally enclosed type and oil bath lubricated. Gear and pinions shall be forged steel and machine cut. IS 3681 for tooth form & module and IS 4460 for rating of gears.	Yes / No / Explain		
23	Couplings	All couplings shall meet the requirement of IS 3177	Yes / No / Explain		

24	Motor	Flameproof type suitable for use in Zone-1, gas groups environment IIA and IIB. IP 65, Class F insulation, Temperature rating T4, Time rating: 1 hr squirrel cage crane duty induction motors as per IS: 325 shall be provided for all the motions. The motor shall be suitable for operation with VFD. The rating of the motor shall be 20% excess of the capacity calculated as per IS: 3177. The motor shall not draw more than 80% of its rated current.	Yes / No / Explain		
25	Drive	Separate VFD drives shall be used for each motors in Hoist, LT and CT. The drive shall be installed in a separate room in non-hazardous area.	Yes / No / Explain		
26	Limit switches	One gravity type & one rotary type limit switches in flameproof (FLP) enclosure for hoist motion. Two way lever shunt type limit switches in FLP enclosure for LT & CT.	Yes / No / Explain		
27	Power supply	415 Volts, AC, 50 Hz, 3 Phase supply.	Yes / No / Explain		
28	Control supply	Intrinsically safe circuit voltage 24 or below.	Yes / No / Explain		

29	Intrinsically safe pendent Control	Operation from floor through light weight LM-6/SS pendent with push button station and independently movable along the bridge girder on four wheeled cable trolleys with anti-friction ball bearing running on a separate track confirming to IS: 5780	Yes / No / Explain		
30	Speed Control	The speed control shall be through VFD for Hoist, LT & CT operations. Each VFD along with control accessories shall be provided in separate enclosure.	Yes / No / Explain		
31	Cable management systems	Cable – Drag chain for both LT and CT	Yes / No / Explain		
32	Rail	BIS CIR profile or BS crane rail profile	Yes / No / Explain		
33	Earthing	All the electrical equipments viz. motors, brakes, limit switches etc., shall be connected to the earth grid/crane structure by means of two distinct earth leads. The equipment on the crane shall be made continuous by providing jumpers over riveted or bolted joints.	Yes / No / Explain		
34	Cross Travel and Long travel cable arrangement and	FRLS & steel braided / screened, flexible cables with multi strand copper conductors mounted on drag chain	Yes / No / Explain		
35	Pendent	Pendent cable (single cable with multi core) shall be on independent "T" track, metallic chain for holding self weight of cable & pendant.	Yes / No / Explain		

36	Control panel	Individual Electrical panel to be provided on CT platform with maintenance space in front of panel in the platform.	Yes / No / Explain		
37	Buffer	Rubber buffers for LT & CT (100 mm for LT & 60 mm for CT)	Yes / No / Explain		
38	Painting	The entire crane structure shall be provided with one coat of epoxy primer after sand blasting and one coat of epoxy golden yellow finish paint before dispatch and final coat of epoxy golden yellow finish paint after crane erection at site.	Yes / No / Explain		
39	Other points after placing Work Order	As per technical annexure clause 3.1 point no. 38	Yes / No / Explain		

Document : Technical Annexure

2. EOT Crane- Dismantling of existing crane at building no. R45B

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Dismantling of EOT Existing crane at Bldg No. R45B	Hoist, CT, LT drives, bridge girders and LT rails), festooning cables, incoming cables control panels etc. Gantry girder to be retained and used for new crane	Yes / No / Explain		

3. EOT Crane-Supply of cable with drag chain for LT at Bldg No. R45B

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	specification and scope of work	As per technical annexure	Yes / No / Explain		

4. EOT Crane - Supply of cables running from VFD control Panels up to the crane for Bldg No. R45B (payment for cables supplied shall be done at actuals based on quantity used for installtion of the crane)

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	specification and scope of work	As per technical annexure	Yes / No / Explain		

5. EOT Crane - Supply of CR profile rail for Bldg No. R45B

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Specification and scope of work	As per technical annexure	Yes / No / Explain		

6. EOT Crane -Installation of double girder flame proof EOT crane with control panel at Bldg no. R45B

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of work	As per technical annexure	Yes / No / Explain		

7. EOT Crane- Installation of CR rail at Bldg No. R45B

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of work	As per technical annexure	Yes / No / Explain		

8. EOT Crane- Installation of LT cable with drag chain at Bldg No. R45B

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of work	As per technical annexure	Yes / No / Explain		

9. EOT Crane - Installation of cables running from VFD control Panels up to the crane at Bldg no. R45B (payment to be done at actuals based on length of cable installed)

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of work	As per technical annexure	Yes / No / Explain		

10. EOT Crane - Supply of spares for Bldg No. R45B crane for 5 year trouble free operation

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	List of spares	To be specified in the offer with quantity of each spare	Yes / No / Explain		

11. EOT Crane - Supply of tools kit for Bldg No. R45B crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply of tool kit	Tool kit with necessary tools to be supplied	Yes / No / Explain		

12. EOT Crane- Third party inspection charges for R45B EOT crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	third party inspectors	As specified in the technical annexure	Yes / No / Explain		

13. EOT Crane- First Year AMC charges for R45B crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of work of AMC	To be specified in the offer	Yes / No / Explain		

14. EOT Crane -Second year AMC charges for R45B EOT crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of work of AMC	To be specified in the offer	Yes / No / Explain		

15. EOT Crane- Third Year AMC charges for R45B EOT crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	AMC scope of work	To be specified in the offer	Yes / No / Explain		

16. EOT Crane- For R43 facility- supply of double girder flame proof EOT crane with control panel and CT cable, drag chain etc.

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Safe Working Load (T)	15 Ton	Yes / No / Explain		
2	Type	Double girder plate fusion welded box type EOT crane	Yes / No / Explain		

3	Duty	Class M5 (equivalent Class II) As per IS: 807-1976. IS: 3177-1999 & 3938 with latest amendment for structure and mechanics.	Yes / No / Explain		
4	Location	Indoor – building No. R43 in RPP/VSSC	Yes / No / Explain		
5	Ambient temperature	30-40 degree centigrade	Yes / No / Explain		
6	Area classification	Hazardous Area (Zone-1, Flameproof, suitable for IIA /IIB Gases and temperature classification T4, IP 65)	Yes / No / Explain		
7	Rating of crane	1 hour	Yes / No / Explain		
8	Span	12.26 m (Approx)	Yes / No / Explain		
9	Height of lift	9.2 m (Approx)	Yes / No / Explain		
10	Bay length	17 m (Approx)	Yes / No / Explain		
11	Hook approach	CT – preferably less than 1000 mm, LT - preferably less than 1500 mm	Yes / No / Explain		
12	Operating Speed - Hoist	3.0 m/min (Main Speed) – 0.30 m/min (Micro Speed)	Yes / No / Explain		
13	Operating Speed - LT	5.0 m/min (Main Speed) – 0.3 to 0.5 m/min (Micro Speed)	Yes / No / Explain		
14	Operating Speed - CT	5.0 m/min (Main Speed) – 0.3 to 0.5 m/min (Micro Speed)	Yes / No / Explain		
15	Bridge girder & gantry rails	Double girder. Fabricated out of plate fusion welded box type construction. BIS CR profile or BS crane rail profiles for gantry rails.	Yes / No / Explain		

16	Type of hook	Standard forged single point "C" hook with spring loaded safety latch on thruster bearing for free swivel with lock conforming to IS: 3815	Yes / No / Explain		
17	Type of wheel	Double flanged wheels machined out of EN-8/EN-9 forging, hardened as per IS: 3177 and mounted on 'L' type bearings housings. The long travel and cross travel wheels shall be of non-sparking material such as high tensile brass/Phosphor bronze/gunmetal with suitable core material. Hardness of wheel MOC shall not be less than 275 BHN.	Yes / No / Explain		
18	Wire rope	Steel rope as per IS 2266 with 4 fall. The wire shall be made of steel with minimum tensile strength 1960 N/mm ² and shall be galvanized, non-lubricating type with 6x36 construction, preformed and non-rotating type. The rope shall be coated with suitable wire rope compound for lubrication and corrosion prevention.	Yes / No / Explain		
19	Brakes	CMRI certified flame proof, electrohydraulic thruster brake for all motions viz. hoist & CT.	Yes / No / Explain		
20	Bearings	Anti-friction ball roller bearings shall be provided	Yes / No / Explain		
21	Lubrication	Individual grease nipples shall be provided for grease lubrication points.	Yes / No / Explain		

22	Gear box	Integrated gear box or Totally enclosed type and oil bath lubricated. Gear and pinions shall be forged steel and machine cut. IS 3681 for tooth form & module and IS 4460 for rating of gears.	Yes / No / Explain		
23	Couplings	All couplings shall meet the requirement of IS 3177	Yes / No / Explain		
24	Motor	Flameproof type suitable for use in Zone-1, gas groups environment IIA and IIB. IP 65, Class F insulation, Temperature rating T4, Time rating: 1 hr squirrel cage crane duty induction motors as per IS: 325 shall be provided for all the motions. The motor shall be suitable for operation with VFD. The rating of the motor shall be 20% excess of the capacity calculated as per IS: 3177. The motor shall not draw more than 80% of its rated current.	Yes / No / Explain		
25	Drive	Separate VFD drives shall be used for each motors in Hoist, LT and CT. The drive shall be installed in a separate room in non-hazardous area.	Yes / No / Explain		
26	Limit switches	One gravity type & one rotary type limit switches in flameproof (FLP) enclosure for hoist motion. Two way lever shunt type limit switches in FLP enclosure for LT & CT.	Yes / No / Explain		
27	Power supply	415 Volts, AC, 50 Hz, 3 Phase supply.	Yes / No / Explain		

28	Control supply	Intrinsically safe circuit voltage 24 or below.	Yes / No / Explain		
29	Intrinsically safe pendent Control	Operation from floor through light weight LM-6/SS pendent with push button station and independently movable along the bridge girder on four wheeled cable trolleys with anti-friction ball bearing running on a separate track confirming to IS: 5780	Yes / No / Explain		
30	Speed Control	The speed control shall be through VFD for Hoist, LT & CT operations. Each VFD along with control accessories shall be provided in separate enclosure.	Yes / No / Explain		
31	Cable management systems	Cable – Drag chain for both LT and CT	Yes / No / Explain		
32	Rail	BIS CIR profile or BS crane rail profile	Yes / No / Explain		
33	Earthing	All the electrical equipments viz. motors, brakes, limit switches etc., shall be connected to the earth grid/crane structure by means of two distinct earth leads. The equipment on the crane shall be made continuous by providing jumpers over riveted or bolted joints.	Yes / No / Explain		
34	Cross Travel and Long travel cable arrangement and power feed arrangement for the hoist	FRLS & steel braided / screened, flexible cables with multi strand copper conductors mounted on drag chain	Yes / No / Explain		
35	Pendent	Pendent cable (single cable with multi core) shall be on independent "T" track, metallic chain for holding self weight of cable & pendant.	Yes / No / Explain		

36	Control panel	Individual Electrical panel to be provided on CT platform with maintenance space in front of panel in the platform.	Yes / No / Explain		
37	Buffer	Rubber buffers for LT & CT (100 mm for LT & 60 mm for CT)	Yes / No / Explain		
38	Painting	The entire crane structure shall be provided with one coat of epoxy primer after sand blasting and one coat of epoxy golden yellow finish paint before dispatch and final coat of epoxy golden yellow finish paint after crane erection at site.	Yes / No / Explain		
39	Other points after placing Work Order	As per technical annexure clause 3.1 point no. 38	Yes / No / Explain		

Document : Technical Annexure

17. EOT Crane-Dismantling of existing crane at building no. R43

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Dismantling of exiting crane at R43	Hoist, CT, LT drives, bridge girders and LT rails), festooning cables, incoming cables control panels etc. Rails to be retained	Yes / No / Explain		

18. EOT Crane- Supply of cable with drag chain for LT at Bldg No. R43

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Specification	As per technical Annexure	Yes / No / Explain		

19. EOT Crane -Supply of cables running from VFD control Panels up to the crane for Bldg No.

R43 (payment for cables supplied shall be done at actuals based on quantity used for installation of the crane)

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Specification	As per technical Annexure	Yes / No / Explain		

20. EOT Crane-Installation of double girder flame proof EOT crane with control panel at Bldg no. R43

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of work	As per technical annexure	Yes / No / Explain		

21. EOT Crane-Installation of LT cable with drag chain at Bldg No. R43

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of work	As per technical annexure	Yes / No / Explain		

22. EOT Crane-Installation of cables running from VFD control Panels up to the crane at Bldg no. R43 (payment to be done at actuals based on length of cable installed)

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Scope of work	As per technical annexure	Yes / No / Explain		

23. EOT Crane - Supply of spares for building number R43 EOT crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Supply of spares for 5 years of trouble free operation of crane	List of spares to be specified along with quantity of each spare	Yes / No / Explain		

24. EOT Crane-Supply of tools kit for Bldg No. R43 crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Tool kit	to be supplied with necessary tools	Yes / No / Explain		

25. EOT Crane-Third party inspection charges for R43 EOT crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Third party inspectors	as per technical annexure	Yes / No / Explain		

26. EOT Crane-First Year AMC charges for R43 EOT crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	AMC scope of work	To be specified in the offer	Yes / No / Explain		

27. EOT Crane- Second Year AMC charges for R43 EOT crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	AMC scope of work	To be specified in the offer	Yes / No / Explain		

28. EOT Crane -Third Year AMC charges for R43 EOT crane

Item specifications for EOT Crane

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	AMC scope of work	To be specified in the offer	Yes / No / Explain		

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Points specified in introduction of technical annexure are noted and accepted	To be noted and accepted	Yes / No / Explain		
2	Overall scope of work	As per clause 2.1 and 2.2 of technical annexure	Yes / No / Explain		
3	Major subsystems of the crane	As per Clause 4.0	Yes / No / Explain		
4	Design	As per Clause 4.1	Yes / No / Explain		
5	Rope drum	As per clause 4.2	Yes / No / Explain		
6	Wire rope	As per clause 4.3	Yes / No / Explain		
7	Sheaves	As per clause 4.4	Yes / No / Explain		
8	Bearings	As per clause 4.5	Yes / No / Explain		
9	Couplings	As per clause 4.6	Yes / No / Explain		
10	Shafts	As per clause 4.7	Yes / No / Explain		
11	Wheels	As per clause 4.8	Yes / No / Explain		
12	Gear boxes	As per clause 4.9	Yes / No / Explain		
13	Bridge girder and end carriages	As per clause 4.10	Yes / No / Explain		
14	Trolley	As per clause 4.11	Yes / No / Explain		

15	Guards	As per clause 4.12	Yes / No / Explain		
16	Lifting hooks	As per clause 4.13	Yes / No / Explain		
17	Brakes	As per clause 4.14	Yes / No / Explain		
18	Lubrication	As per clause 4.15	Yes / No / Explain		
19	Power supply	As per clause 4.16	Yes / No / Explain		
20	Motors	As per clause 4.17	Yes / No / Explain		
21	Controls and protection panel	As per clause 4.18	Yes / No / Explain		
22	Limit switches	As per clause 4.19	Yes / No / Explain		
23	Alarms	As per clause 4.20	Yes / No / Explain		
24	Cables	as per clause 4.21	Yes / No / Explain		
25	Earthing	As per clause 4.22	Yes / No / Explain		
26	Electrical installation and testing	As per clause 4.23	Yes / No / Explain		
27	Make of bought out components	As per clause 5.0	Yes / No / Explain		
28	Tools	As per clause 6.0	Yes / No / Explain		
29	Painting	As per clause 7.0	Yes / No / Explain		
30	Inspection	As per clause 8.0	Yes / No / Explain		
31	Testing	As per clause 9.0	Yes / No / Explain		
32	Erection and commissioning at site	As per clause 10	Yes / No / Explain		
33	Documentation	As per clause 11	Yes / No / Explain		
34	Guarantee	As per clause 12	Yes / No / Explain		

35	Standards and regulations	As per clause 13	Yes / No / Explain		
36	Material specification	As per clause 14	Yes / No / Explain		
37	Packing and forwarding	As per clause 15	Yes / No / Explain		
38	Delivery schedule	As per clause 16	Yes / No / Explain		
39	Imported notes noted and accepted	To be noted and accepted	Yes / No / Explain		
40	Arrangement of mobile crane for erection and commissioning of the crane	To be done by the party	Yes / No / Explain		
41	Site visit for verification of critical dimensions assessment of cable requirement	Shall be done by the party free of cost. It may be noted that specified dimensions are approximate and exact measurement for fabrication purposes is sole responsibility of the party.	Yes / No / Explain		
42	Site visit to assess scope of work prior to submission of offer	May be done with prior intimation	Yes / No / Explain		
43	Qualification criteria	Documentary evidence towards the supply of at least 5 nos. of flameproof cranes of similar capacity (10T and above) to Government/PSU/Public Sector has to be submitted along with the quote for consideration of the offer for further evaluation.	Yes / No / Explain		

Supporting Documents required from Vendor

1. vendor specified schedule

2. Proof of experience as per the qualification criteria specified in the tender

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Supply and intallation shall be done within the period as per schedule specified in technical annexure.	Yes / No / Explain	
2	Minimum two year warranty against manufacturing or installation related defects. Any breakdown calls within warranty period shall be attended within the time specified in the technical annexure.	Yes / No / Explain	
3	Warranty	Yes / No / Explain	
4	Warranty	Yes / No / Explain	
5	Taxes and other costs, if any . [Note: VSSC is a Public Funded Research Institution under the administrative control of Department of Space and is eligible for partial exemption of IGST @5% vide Notfn No. 45/2017, 47/2017 dt 14.11.2017 respectively. Necessary IGST EXEMPTION CERTIFICATE shall be issued.]	Yes / No / Explain	
6	Security Deposit (Applicable if Offer Value is Rs. 5 Lakhs or above. MSME/NSIC Units are NOT EXEMPTED from the payment of SD. Bank Guarantee @ 3% of Order Value valid till 60 days from the date of supply to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indenity Bond in lieu of BG. In the event of non-performance of contractual obligations, SD will be forfeited).	Yes / No / Explain	
7	Delivery Terms [Normal delivery terms - FOR Destination (for Indigenous cases)]	Yes / No / Explain	
8	Delivery Period [LD Clause applicable]	Yes / No / Explain	
9	Liquidated Damages (Applicable beyond the delivery period mentioned in this tender @ 0.5% per week or part thereof on the undelivered portion subject to a maximum of 10% of the contract value. Mandatory compliance required).	Yes / No / Explain	

10	Performance Bank Guarantee (PBG) Bank Guarantee @ 3% of Order Value valid till the completion of warranty period plus 2 months claim period to be submitted. Mandatory compliance required. Only Government Bodies/PSUs/PSEs can submit Indemnity Bond in lieu of BG. In the event of non-performance of warranty obligations, PBG will be forfeited).	Yes / No / Explain	
11	Payment Term: (Our Default payment term: For indigenous orders: 100% within 30 days after receipt, installation and acceptance of item at our site. For import cases: 100% by Sight Draft with Bank Charges to respective accounts. NOTE: CONSEQUENT TO COVID 19 PANDEMIC AND AS PER EXTANT GUIDELINES FROM DEPARTMENT OF SPACE, NO ADVANCE PAYMENT IS PAYABLE TO THIS TENDER).	Yes / No / Explain	
12	Definitions: A supplier or service provider, whose goods, services or works offered for procurement, has local content: a) Equal to or more than 50% : Class-I local supplier. b) More than 20% but less than 50% : Class-II local supplier. c) Less than or equal to 20% : Non-local supplier. Mention your category.	Yes / No / Explain	
13	Local content means the amount of value added in India (i.e. indigenous items/services added in the offered products/services/works) be the total value of the item offered (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties/IGST) as a proportion of the total value (excluding net domestic indirect taxes), in percent. Indicate extent of Minimum Local Content in offered product/service and location of such value additions.	Yes / No / Explain	

14	The Class-I & II local supplier should provide a Self Certification along with your offer in PDF format indicating that the item offered meets the minimum local content as called for in the tender as mentioned above and provide the % of local content along with details of the location(s) at which the local value addition is made. In case of two part tenders, it is mandatory to indicate compliance to MLC(minimum local content) in technical bid itself. Confirm attachment of Self declaration along with the offer.	Yes / No / Explain	
15	PO Placement Address (with Name and Contact Details of sales person concerned).	Yes / No / Explain	
16	Quote Validity: Minimum 180 days [for Two Part Tender- 120days from the date of opening of Technical bid & 60 days from the date of opening of Price Bid]. [Mandatory. Otherwise offer will not be consider for evaluation];	Yes / No / Explain	
17	Party may visit the site prior to submission of tender to assess the actual scope of work.	Yes / No / Explain	
18	Confirm if PFMS registered. If YES provide the unique code. Else provide the following details on Company Letter Head signed by authorised person and attach as scanned copy. 1) Bank details(Bank Name; Branch address; Acct No.; IFSC Code etc., Copy of personalized cheque leaf in the name of vendor or NEFT Mandate form duly endorsed by the Bank of the vendor; 2) GST No.	Yes / No / Explain	
19	IMPORTANT NOTE: This being a Two Part Tender, Cost shall be mentioned in the Price Bid Only. All the documents being uploaded like quote split up details, AMC cost etc should not contain the rates/costs. However a copy of your PRICE BID, AMC quote etc WITHOUT PRICE SHALL BE UPLOADED in the Documents Solicited from the Vendor Field[available in Bid forms] TO KNOW THE PATTERN OF QUOTE.[ENSURE NOT TO MENTION ANY PRICE, OTHERWISE THE QUOTE WILL BE INVALID.] NOTE/CONFIRM.	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	EOT Crane- For R45B facility- supply of double girder flame proof EOT crane with control panel and CT cable, drag chain etc.	1.00 Nos.		-		
2	EOT Crane- Dismantling of existing crane at building no. R45B	1.00 Nos.		-		
3	EOT Crane- Supply of cable with drag chain for LT at Bldg No. R45B	15.00 m		-		
4	EOT Crane - Supply of cables running from VFD control Panels up to the crane for Bldg No. R45B (payment for cables supplied shall be done at actuals based on quantity used for installtion of the crane)	20.00 m		-		
5	EOT Crane - Supply of CR profile rail for Bldg No. R45B	25.00 m		-		
6	EOT Crane - Installation of double girder flame proof EOT crane with control panel at Bldg no. R45B	1.00 Nos.		-		

7	EOT Crane- Installation of CR rail at Bldg No. R45B	25.00 m		-		
8	EOT Crane- Installation of LT cable with drag chain at Bldg No. R45B	15.00 m		-		
9	EOT Crane - Installation of cables running from VFD control Panels up to the crane at Bldg no. R45B (payment to be done at actuals based on length of cable installed)	20.00 m		-		
10	EOT Crane - Supply of spares for Bldg No. R45B crane for 5 year trouble free operation	1.00 Sets		-		
11	EOT Crane - Supply of tools kit for Bldg No. R45B crane	1.00 Sets		-		
12	EOT Crane- Third party inspection charges for R45B EOT crane	1.00 Nos.		-		
13	EOT Crane- First Year AMC charges for R45B crane	1.00 Nos.		-		
14	EOT Crane - Second year AMC charges for R45B EOT crane	1.00 Nos.		-		
15	EOT Crane- Third Year AMC charges for R45B EOT crane	1.00 Nos.		-		

16	EOT Crane- For R43 facility- supply of double girder flame proof EOT crane with control panel and CT cable, drag chain etc.	1.00 Nos.		-		
17	EOT Crane- Dismantling of existing crane at building no. R43	1.00 Nos.		-		
18	EOT Crane- Supply of cable with drag chain for LT at Bldg No. R43	20.00 m		-		
19	EOT Crane - Supply of cables running from VFD control Panels up to the crane for Bldg No. R43 (payment for cables supplied shall be done at actuals based on quantity used for installtion of the crane)	35.00 m		-		
20	EOT Crane- Installation of double girder flame proof EOT crane with control panel at Bldg no. R43	1.00 Nos.		-		
21	EOT Crane- Installation of LT cable with drag chain at Bldg No. R43	20.00 m		-		

22	EOT Crane- Installation of cables running from VFD control Panels up to the crane at Bldg no. R43 (payment to be done at actuals based on length of cable installed)	35.00 m		-		
23	EOT Crane - Supply of spares for building number R43 EOT crane	1.00 Sets		-		
24	EOT Crane- Supply of tools kit for Bldg No. R43 crane	1.00 Sets		-		
25	EOT Crane- Third party inspection charges for R43 EOT crane	1.00 Nos.		-		
26	EOT Crane- First Year AMC charges for R43 EOT crane	1.00 Nos.		-		
27	EOT Crane- Second Year AMC charges for R43 EOT crane	1.00 Nos.		-		
28	EOT Crane - Third Year AMC charges for R43 EOT crane	1.00 Nos.		-		

Common charges (Applicable for all items)

Freight charge	
P&F Charges	