

"Procurement of E beam Powder Bed Fusion Additive Manufacturing facility"

Recommendation of TSC on "Prebid meeting held on 19-01-2024"

क्रमांक : 1220  
दिनांक : 23.1.2024

A Prebid meeting was scheduled on 19-01-2024, 12.00 PM onwards, the following party has participated for the Prebid meeting held online through WebEx.

- (i) Mr Mike Ford, from M/s Wayland Additive, Unit 7 Park Valley Court, Meltham Road, Huddersfield, England, HD4 7BH representing Wayland Calibur3 system.
- (ii) Mr. Rahul Mundada & Mr. Atit Kothari, M/s Imaginarium, The Great Oasis, Plot No: D-13, 7th Floor, MIDC, Marol Industrial Area, Andheri East, Mumbai, Maharashtra 400093 for representing, GE Additive Arcam EBM A2X system.

After detailed technical discussion and email from the above-mentioned firms (Annexure-A & Annexure-B), the following changes in the technical specification as well as in the terms and conditions in the tender documents are requested.

Sr. No	Tendered specification	Revised specification	tendered	Reason for revision
1.5	Maximum EB Translation Speed: 8000 m/s or more	Maximum EB Translation Speed: 1000 m/s or more		As pe the email from M/s Wayland Additive (attached Annexure-A), change in the specifications do not affect end use requirement of product.
1.8	He Consumption during Build process: 1 liter/h or less	He/Ar Consumption during Build process: 1 liter/h or less		As pe the email from M/s Wayland Additive (attached Annexure-A), change in the specifications do not affect end use requirement of product.
1.9	He Consumption during Build cool down: 75 liters/build cycle or lower	He/Ar Consumption during Build cool down: 75 liters/build cycle or lower		As pe the email from M/s Wayland Additive (attached Annexure-A), change in the specifications do not affect end use requirement of product.
1.11	The system should be capable of processing all the standard materials listed. Process parameters, Process data and process theme for	The system should be capable of processing all the standard materials listed. Process parameters, Process data and process theme for these standard materials should be		As pe the email from M/s Wayland Additive (attached Annexure-A), change in the specifications do not affect end use

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	these standard materials should be provided Standard Build materials: i. Titanium Ti6Al4V ii. Nickel Alloy 718	provided Standard Build materials: i. Titanium Ti6Al4V ii. Nickel Alloy 718 Or Any standard metals/alloys	requirement of product.
1.12	Supplier has to submit reference literatures that assure that machine is suitable and has been used for processing other third party materials below i. TiNi / TiAl ii. Cobalt-Chrome, ASTM F75 iii. Pure Cu iv. Pure W v. Stainless steel vi. Aluminium Alloys	Supplier are advised to submit any reference literatures that assure that machine is suitable and has been used for processing other third-party materials like below i. TiNi / TiAl ii. Cobalt-Chrome iii. Pure Cu iv. Pure W v. Stainless steel vi. Aluminium Alloys, etc.	As pe the email from M/s Wayland Additive (attached Annexure-A), change in the specifications do not affect end use requirement of product.
7.0	Materials: Ti-6Al-4V grade 23 EBM powder- Inconel 718 powders to demonstrate machine working during installation.  All powders should have spherical morphology and Particle Size Distribution (PSD) should be 45-106µm. Supplied material should be suitable for the EBM system as per the quality standard of the EBM system and powders should be suitable to provide build quality specified in the specifications.  Material data sheet and test report should be enclosed. Ti-6Al-4V and In718 alloy should have certification as Aerospace grade.	Materials: Ti-6Al-4V grade 23 EBM powder/ Inconel 718 / any other standard alloy/metal powders to demonstrate machine working during installation.  All powders should have spherical morphology and Particle Size Distribution (PSD) should be 45-106µm. Supplied material should be suitable for the EBM system as per the quality standard of the EBM system and powders should be suitable to provide build quality specified in the specifications.  Material data sheet and test report should be enclosed. Ti-6Al-4V or In718 alloy should have certification as Aerospace grade.	As pe the email from M/s Wayland Additive (attached Annexure-A), change in the specifications do not affect end use requirement of product.

M.A. Vaidya  
22/01/2024

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9.2	OEM should have supplied at least 05 (five) systems of similar specifications in the last 03 years in India or worldwide and those systems should be in operation till date.	OEM should have supplied at least 04 (four) systems of similar specifications in the last 03 years in India or worldwide and those systems should be in operation till date.	As pe the email from M/s Wayland Additive (attached Annexure-A), change in the specifications do not affect end use requirement of product.
9.3	The Supplier should provide support documents to show their customers' list (at least five of them) with contact details. Performance certificate of latest of them should also be submitted with technical bid.	The Supplier should provide support documents to show their customers' list (at least three of them) with contact details. Performance certificate of latest of them should also be submitted with technical bid.	As pe the email from M/s Wayland Additive (attached Annexure-A), change in the specifications do not affect end use requirement of product.
15.2	The OEM should have proven expertise of at least 5 years in manufacture and supply of the item	The OEM should have proven expertise of at least 4 years in manufacture and supply of the item	As pe the email from M/s Wayland Additive (attached Annexure-A), change in the specifications do not affect end use requirement of product.
15.4	It is essential that the bidder/OEM should provide support documents to show their at least 05 (five) customers' list with contact details.	It is essential that the bidder/OEM should provide support documents to show their at least 04 (four) customers' list with contact details.	As pe the email from M/s Wayland Additive (attached Annexure-A), change in the specifications do not affect end use requirement of product.
clause GCC 2.13.1 (pg 50)	10% Performance Security (PBG) of the total purchase order value.)	Performance Bank Guarantee (PBG): It is mentioned 10% as per clause GCC 2.13.1 (pg 50) We would be bidding in INR, hence request the PBG to be revised to 5% in line with the clause GCC 2.22.1 (pg 52)	Both GCC 2.13.1 (Pg 50) & GCC 2.21.1 (Pg 52 ) read as 5% PBG  Accepted the terms of payment conditions as requested by M/s Imaginarium (Annexure-B)
Clause 2.21.1	If required (depending on the merits of the case), 100 % payment through	80% of contract price on receipt of goods in good condition and 20% of contract	Accepted the terms of payment conditions as

Mohd Aliq  
22/01/2024

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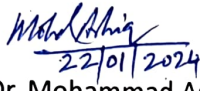
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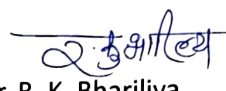
inland LC after Successfully supply installation and commissioning of equipment and after submission of 10% PBG.	price within thirty (30) days after date of acceptance certificate through inland LC and submission of 5% PBG.	requested by M/s Imaginarium (Annexure-B)
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As per the above representation, from both the firms, M/s Wayland and M/s Imaginarium, the above modification in the tender is requested. The tender submission date may be extended till 06-02-2024.

We shall abide by the Code of Integrity and Conflict of Interest for Public Procurement as per para 3.2.1 of CSIR Manual 2019.

  
22/01/2024  
Dr. Mohammad Ashiq  
Indentor

  
Dr. N. Sathish  
Project Leader

  
Dr. R. K. Bhariliya  
Member, TSC

  
Abhishek Pandey  
Member

  
22/1/2024  
Dr. Akram Khan  
Alternate Chairman & Member, TSC


on line attested  
& scanned copy sign  
Dr. Ravi Bathe  
Domain Expert, TSC

  
22/1/24  
Dr. P. Asokan  
Chairman, TSC

SPO

Director may please approve the recommendation  
of TSC

Director

  
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