

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
U. R. RAO SATELLITE CENTRE (URSC)
BANGALORE**

Tender for Modal Shaker System

Bids to be submitted online

Tender No.: URSC/HS/IS202200061401 dated 16-06-2022

A. Tender Details

Tender No :	URSC/HS/IS202200061401
Tender Date :	16-06-2022
Tender Classification:	GOODS
Purchase Entity :	HS
Centre :	U. R. RAO SATELLITE CENTRE (URSC)

Procurement of Modal Shaker System

1) Important Notice to Tenderer(s): Government of India has implemented Goods and Service Tax (GST) w.e.f. 01.07.2017. The Tenderer(s) should mandatorily possess a valid GSTIN along with the GST Registration certificate. Please send duly self-attested certificate of GST Registration along with offer(s), in the absence of which, your offer(s) will be invalid and shall not be considered.

2) This is a Two Part Public Tender. Please do not attach price details along with technical details in pdf or any format. If so, your offer shall be rejected.

3) This is a Public Tender under Two Part Basis. Only online tenders will be accepted. No manual/Postal/e-mail/Fax Offers will be entertained.

4) All the tenderers shall furnish break-up values in their quotes that clearly indicates basic cost of the service/good and GST Separately Lump Sum/ All-inclusive price quotes shall not be entertained.

5) We are exempted from the Custom Duty Exemption Certificate under Customs Notification No.12/2012 Customs dated:17/03/2012 superseded by Customs Notification No.50/2017-customs dated:30/06/2017.

6) URSC is eligible for concessional GST @ 5% vide Notification No.45/2017-Central Tax [Rate] dated 14.11.2017 & Notification No. FD 48 CSL Dt: 14.11.2017.

7) URSC is eligible for concessional GST @ 5% vide Notification No.47/2017-Integrated Tax [Rate] dated 14.11.2017.

8) Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent

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

9) Please provide current contact details [email id, phone no. landline no].

10) E-Bank Guarantee and Insurance Bond is also acceptable as Bank Guarantee.

A.1 Tender Schedule

Bid Submission Start Date : 16-06-2022 16:00

Bid Clarification Due Date : 23-06-2022 16:00

Bid Submission Due Date : 01-07-2022 09:30

Bid Opening Date : 01-07-2022 10:00

Price Bid Opening Date : 01-07-2022 10:02

B. Tender Attachments

Technical Write-up/Drawings

Document : [Technical specification](#)

Instructions To Vendors

C. Bid Templates

C.1 Technical Bid - Modal Shaker System

1. MODAL SHAKERS

Item specifications for MODAL SHAKERS

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Cooling	Ambiant/forced air	Yes / No / Explain		
2	Sine (peak)	400 N or higher	Yes / No / Explain		
3	Random (RMS)	280 N or higher	Yes / No / Explain		
4	Useful Frequency range	2 - 4000 Hz or higher	Yes / No / Explain		
5	Max. Rated Travel	Approximately 25 mm	Yes / No / Explain		
6	Max. Acceleration Sine Peak	Greater than 80g	Yes / No / Explain		
7	Max acceleration random RMS	Greater than 50g	Yes / No / Explain		
8	Maximum peak velocity	Greater than 1.0 m/s	Yes / No / Explain		
9	Rated Current	Less than 20 A	Yes / No / Explain		
10	Effective Moving Mass	Less than 1.0 kg	Yes / No / Explain		
11	Main Resonance Frequency	Above 3500 Hz	Yes / No / Explain		
12	Weight with Trunnion	Less than 30 kg	Yes / No / Explain		
13	Operating temperature	10 – 35 degree Centigrade	Yes / No / Explain		
14	Operating humidity	Less than 85 RH	Yes / No / Explain		
15	Excitation signals	Dwell sine, Random, burst random etc..	Yes / No / Explain		

16	Protection Features	Suitable protection features for over travel and over current	Yes / No / Explain		
17	Compatible Power Amplifiers	Yes	Yes / No / Explain		
18	Output power	Suitable for driving the quoted shaker to its specified capacity	Yes / No / Explain		
19	Amplifier Frequency Range	DC – 20 kHz	Yes / No / Explain		
20	Amplifier Frequency Response	DC -10 kHz (Flat within 1 dB)	Yes / No / Explain		
21	Amplifier Input coupling	AC or DC	Yes / No / Explain		
22	Amplifier Input impedance	>10 kΩ	Yes / No / Explain		
23	Amplifier Electrical Input Voltage	230 V AC (+/-10V)	Yes / No / Explain		
24	Amplifier Electrical Input Frequency	50 Hz (+/- 2 Hz)	Yes / No / Explain		
25	Amplifier Operating temperature	+10 to +35 degree centigrade	Yes / No / Explain		
26	Amplifier Operating Humidity	Less than 85% RH	Yes / No / Explain		
27	Amplifier Total harmonic distortion at full output capacity	< 1 %	Yes / No / Explain		
28	Amplifier Input connector type	BNC	Yes / No / Explain		
29	Amplifier Input signal voltage for full power	Less than 10V	Yes / No / Explain		
30	Amplifier Mass	Less than 50 Kg	Yes / No / Explain		
31	Necessary accessories for operation to be supplied	pull stringers, collets, chuck, adaptor, turnbuckles others required	Yes / No / Explain		
32	Cable length from shaker to power amplifier	5m with extension up to 20 m	Yes / No / Explain		

Document : Technical specification

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Cooling	Ambiant/forced air	Yes / No / Explain		
2	Sine (peak)	400 N or higher	Yes / No / Explain		
3	Random (RMS)	280 N or higher	Yes / No / Explain		
4	Useful Frequency range	2 - 4000 Hz or higher	Yes / No / Explain		
5	Max. Rated Travel	Approximately 25 mm	Yes / No / Explain		
6	Max. Acceleration Sine Peak	Greater than 80g	Yes / No / Explain		
7	Max acceleration random RMS	Greater than 50g	Yes / No / Explain		
8	Maximum peak velocity	Greater than 1.0 m/s	Yes / No / Explain		
9	Rated Current	Less than 20 A	Yes / No / Explain		
10	Effective Moving Mass	Less than 1.0 kg	Yes / No / Explain		
11	Main Resonance Frequency	Above 3500 Hz	Yes / No / Explain		
12	Weight with Trunnion	Less than 30 kg	Yes / No / Explain		
13	Operating temperature	10 – 35 degree Centigrade	Yes / No / Explain		
14	Operating humidity	Less than 85 RH	Yes / No / Explain		
15	Excitation signals	Dwell sine, Random, burst random etc..	Yes / No / Explain		
16	Protection Features	Suitable protection features for over travel and over current	Yes / No / Explain		
17	Compatible Power Amplifiers	Yes	Yes / No / Explain		
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24	Amlifier Electrical Input Frequency	50 Hz (+/- 2 Hz)	Yes / No / Explain		
25	Amplifier Operating temperature	+10 to +35 degree centigrade	Yes / No / Explain		
26	Amlifier Operating Humidity	Less than 85% RH	Yes / No / Explain		
27	Amplifier Total harmonic distortion at full output capacity	less than 1 percent	Yes / No / Explain		
28	Amlifier Input connector type	BNC	Yes / No / Explain		
29	Amlifier Input signal voltage for full power	Less than 10V	Yes / No / Explain		
30	Amlifier Mass	Less than 50 Kg	Yes / No / Explain		
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32	Cable length from shaker to power amplifier	5m with extension up to 20 m	Yes / No / Explain		

Supporting Documents required from Vendor

1. List of customers (optional)

2. Compliance matrix and quotation

3. Specification sheet of the model quoted

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	Onsite supply and installation	Yes / No / Explain	
2	Provide compliance for General terms and conditions which is attached as a separate sheet in a document folder.	Yes / No / Explain	
3	Taxes : Government of India has implemented Goods and Services Tax [GST] w.e.f. 01.07.2017. The Tenderer[s] should mandatorily possess a valid GSTIN along with the GST Registration Certificate. Please send duly self-attested certificate of GST Registration along with offer[s]. Indicate applicable GST rate for the quoted item.	Yes / No / Explain	

4	<p>Custom Duty: U R Rao Satellite Centre [URSC], Bengaluru is eligible for payment of Customs Duty at the rate of 5 per cent plus Social Welfare Cess at the rate of 10 per cent on CD & IGST at the rate of 5 per cent vide Notification No.12/12-Cus dated 17.03.2012 superseded by Notification No.50/17-Customs dated 30.06.2017 and as amended by Notification No. 5/2018-Customs dated 25.01.2018, Sl. No. 539A. The necessary Customs Duty Exemption Certificate (CDEC) shall be provided by URSC only to those bidders who claim Purchase Preference under Make in India Policy and fulfil all requirements of tender document applicable for Indigenous Manufacturer i.e., Class-I/Class-2 local supplier. Such Class-I/Class-2 local suppliers have to take note of this aspect and submit their Offer clearly mentioning that the quoted Price for Imported contents includes concessional Customs Duty as per above Notification. While requesting for issue of CDEC for the imported contents, the Tenderer[s] should mention the Item Description, Quantity and Value for which CDEC is to be provided for the bought out Imported Items. The necessary documentary proofs like P.O., on their Supplier, Invoice, AWB shall be produced while requesting for issue of CDEC from URSC. However, CDEC will be issued only to those successful Class-I/Class-2 local supplier, not exceeding the limit of foreign content declared in their quote. Also a declaration of the Supplier in their letter head that imported items in the Invoice are used for realization of ordered items.</p>	Yes / No / Explain	
5	<p>Delivery Terms [Indigenous Supply]: Tenderer[s] shall quote the Price[s] on FOR, URSC/ISITE, Bengaluru.</p>	Yes / No / Explain	
6	<p>Delivery Date/Completion Date: Delivery is the essence of the Contract. Tenderer[s] is/are hereby requested to mention the Firm Delivery Date/Completion Date. Also mention period required for installation & commissioning, if it is there in the scope.</p>	Yes / No / Explain	
7	<p>Mode of Despatch (Rail/Road)</p>	Yes / No / Explain	

8	Payment Terms: Payment shall be 100 per cent payment within 30 days after receipt and acceptance of Stores at URSC, Bengaluru	Yes / No / Explain	
9	Name of Suppliers Banker & Account Number with IFSC code	Yes / No / Explain	
10	<p>Security Deposit: The Contractor shall execute Security Deposit for 3 per cent of the value of the Purchase Order to ensure Satisfactory Performance of the Contract. The Security Deposit shall be executed within 20 days after Receipt of Purchase Order or any extension thereof. The Security Deposit is to be furnished in the form of Insurance Surety Bond/Account Payee Demand Draft or Fixed Deposit Receipt or Bank Guarantee from Nationalized Bank/Scheduled Bank approved by RBI. The Security Deposit shall be executed on a Non-Judicial Stamp Paper of Rs. 200/- value and shall be valid for a period of 60 days beyond the date of completion of the P.O/Contract.. In case the Contractor fails to furnish the Security Deposit within 20 days or any extension thereof the Purchase Order shall be Cancelled or Terminated and appropriate penal action shall be initiated. Any breach of the Terms and Conditions of the PO including Delivery Period, Security Deposit shall be forfeited and PO shall be terminated and cancelled at the Contractors risk, cost and liability. The Security Deposit will not carry any interest and shall be returned after completely executing the order. Adherence to this clause is compulsory or otherwise, the Tender will be rejected.</p>	Yes / No / Explain	

11	<p>Performance Bank Guarantee: The Contractor shall execute Performance Bank Guarantee for 3 per cent value of the Purchase Order for fulfillment of Warranty obligations. The PBG shall be executed through Insurance Surety Bond/Account Payee Demand Draft/ Fixed Deposit receipts or Bank Guarantee issued by a Nationalized Bank/Schedule Bank approved by RBI. The PBG shall be executed on a Non-Judicial Stamp Paper of Rs. 200/- value. The Performance Bank Guarantee shall be executed as per our specimen and shall be valid for a period of 60 days beyond the date of completion of all the terms and conditions of the P.O./expiry date of warranty period. The Performance Bank Guarantee shall be executed before claiming payment. The PBG will not carry any interest and shall be returned after completion of all the Contractual obligations of the Contract with a NO CLAIM CERTIFICATE issued by Contractor as per our Specimen enclosed. Adherence to this clause is compulsory or otherwise, the Tender will be rejected.</p>	Yes / No / Explain	
12	<p>Warranty/Guarantee: Tenderer[s] are requested the Indicate Applicable Standard Warranty/Guarantee Period. Warranty period shall commence from the date of acceptance of the goods by the purchaser. All the replacements during the Warranty period shall be carried out by the successful Tenderer[s] Free of all Cost including To & fro Freight Charges.</p>	Yes / No / Explain	

13	<p>Liquidated Damages: The time and date stipulated in the contract for completion of the work shall be deemed to be the essence of the contract. If the Contractor fails to deliver the Stores within the time specified in the Contract or any extension thereof or if the Contractor fails to maintain the required progress or comply with the relevant provisions of the general conditions of contract or special conditions of contract, if any and clear the site on or before the contract or extended date of completion, the Purchaser shall, without prejudice to any other right or remedy available under the law to Purchaser on account of such breach, recover from the Contractor as Liquidated Damages a sum one-half of one percent [0.5 percent] of the Contract price of the undelivered Stores for each calendar week of delay or part thereof. The total Liquidated Damages shall not exceed Ten percent [10 percent] of the Contract price of the undelivered stores.</p> <p>In case of delay in delivery of the Stores beyond the delivery date stipulated in the Purchase Order/Contract or any extension thereof, such Stores shall be received without prejudice to the right of the Purchaser to claim Liquidated Damages and without prejudice to the terms and conditions of the Purchase Order/Contract. Adherence and acceptance to this Clause is Compulsory or otherwise the Tender will be rejected.</p>	Yes / No / Explain	
14	<p>Pre-Delivery Inspection [PDI] [if Required]: The successful Tenderer[s] has to arrange for the necessary PDI of the Stores at the Contractor Factory Premises to enable URSC Engineers to carry out PDI. The PDI is applicable wherever the RFP document/Scope of Work calls for such an inspection.</p>	Yes / No / Explain	
15	<p>Factory Acceptance Testing [FAT] [if Required]: The successful Tenderer[s] has to arrange for the necessary FAT of the Stores at the Contractor Factory Premises to enable URSC Engineers to carry out FAT. The FAT is applicable wherever the RFP document/Scope of Work calls for such as FAT.</p>	Yes / No / Explain	

16	Tenderer[s] are requested to mention whether Installation, Testing, Commissioning, Demonstration, Acceptance and imparting Training is necessary for the Tendered Stores. Do not mention any price under this column in case of Two-Part Tender.	Yes / No / Explain	
17	<p>Arbitration (Local suppliers): :In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent, in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 together with amendments thereto or any modification thereof. The Arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre - Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be English only. Work under the contract shall be continued by the Tenderer during the pendency of arbitration proceedings, without prejudice to a final adjustment in the accordance with the decision of the Arbitrator unless otherwise directed in writing by the Purchaser or unless the matter is such that the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained. Adherence and acceptance to this Clause is Compulsory or otherwise the Tender will be rejected.</p>	Yes / No / Explain	

18	b) Arbitration with Public Sector Undertakings: In the event of any dispute or difference relating to the interpretation and application of the Contract, such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in DPE OM No. 4 (1)/2013 - DPE (GM) /FTS-1835 dated 22.05.2018. And/or amended thereafter.	Yes / No / Explain	
19	Applicable Law and Jurisdiction: Contract shall be interpreted, construed and governed by the Laws of India and the Courts in Bengaluru City alone shall have exclusive jurisdiction in this regard, to the extent permissible under the Arbitration and Conciliation Act, 1996. Non-acceptance to this Clause will amount to rejection of the Tender.	Yes / No / Explain	
20	Validity of Offer: The offer should be valid for a minimum period of 90 days for single part tender and 180 days for two part tender from the date of opening of the tender. Adherence to this clause is compulsory or otherwise, the Tender will be rejected.	Yes / No / Explain	
21	Company postal address along with Email ID and Ph No.	Yes / No / Explain	
22	In case a bidder is an MSE, registered under NSIC or any other Government Agencies and would like to avail exemptions, offer should be accompanied with necessary registration certificate with declaration to consider their offer. Quotation received without such declaration and valid registration certificate will not be considered for exemptions under the Public Procurement Policy.	Yes / No / Explain	
23	Do you have Unique GeM Seller ID? If YES, provide details If NO, As per Office Memorandum No 6/9/2020-PPD dated 24/08/2020 of Department of Expenditure, it shall be mandatory for sellers providing Goods and Services to Central Government Organizations to be registered on GeM and obtain a Unique GeM Seller ID, at the time of Placement of Order/acceptance of contract. Tenderers shall ensure the same.	Yes / No / Explain	

24	<p>Please refer the following OMs/orders issued by Govt. of India while submitting the bid:</p> <p>(i) No. P-45021/2/2017-PP (BE-II) dated 16.09.2020 (ii) F.No.6/18/2019-PPD (Public Procurement No.1) dated 23.07.2020 (iii) F.No.6/18/2019-PPD (Public Procurement No.2) dated 23.07.2020 and (iv) F.No.6/18/2019-PPD (Public Procurement No.3) dated 24.07.2020.</p> <p>All the provisions mentioned in the above OMs/orders shall be complied. If any deviation from the above OMs/order, your offer will be liable for rejection. All Bidders fulfilling the above orders, shall submit a valid registration certificate made with DPIIT, without which the offer shall not be considered.</p>	Yes / No / Explain	
25	Country of Origin of quoted items Adherence and acceptance to this Clause is Compulsory or otherwise the Tender will be rejected.	Yes / No / Explain	
26	<p>Based on the GOI order dated 16.09.2020 as mentioned above, provide declaration in Company Letter head indicating the following:</p> <p>a) Percentage of Local Content in the quoted items alongwith its break-up (in percentage only). It may be noted that Local Content shall not include services such as Transportation, Insurance, Installation, Commissioning, Training and after sales service support like AMC/CMC etc. - Adherence and acceptance to this Clause is Compulsory or otherwise the Tender will be rejected.</p>	Yes / No / Explain	
27	<p>b) Details of the location(s) at which the local value addition is made. - Adherence and acceptance to this Clause is Compulsory or otherwise the Tender will be rejected.</p>	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	MODAL SHAKERS	3.00 Nos.		-		