Minutes of the Pre-Bid Conference held on 02.03.2017 at VC's Conference Hall, Administrative Block, CUTN in connection with pre-bid queries raised by prospective bidders against our Tender Enquiry No.42/2016-17 for supply and installation of laboratory equipment for Department of Physics under SERB-ECR Project

The following members of the Committee were present:

(1) Dr.E. M. Ponmurugan, Assistant Professor, Department of Physics ... Member

(2) Dr. R. Arun, Assistant Professor, Department of Physics ... Member

(3) Dr. K. Venkata Saravanan, Assistant Professor & PI of SERB-ECR Project, Department of Physics - Member & Convener

Dr. V. Madhurima, Associate Professor & Head, Department of Physics & Dr.S. G. Ramkumar, Coordinator, Project cell could not attend the meeting due to pre-occupation.

Shri.B. Thiagarajan, Assistant registrar (Purchase) participated as a Presiding Officer.

The representatives of following prospective bidders attended the Pre Bid Conference:-

1. Shri M. Santhosh Kumar, Executive - Sales, M/s. Toshniwal Brothers (SR) Private Limited, Chennai

2. Shri.D. Manikandan, Area Manager, M/s. Verder Scientific Private Limited, Hyderabad

An email communication received from Shri M. Santhosh Kumar, Executive - Sales, M/s. Toshniwal Brothers (SR) Private Limited, Chennai with regard to technical specification has been addressed by the Committee.

The attendance sheet is enclosed herewith.

## Opening Remarks:

Dr. K. Venkata Saravanan, Assistant Professor & PI of SERB-ECR Project, Department of Physics at the beginning welcomed the participating members and after introduction, he briefed all participants about the tender.

It was explained that purpose of Pre-Bid Conference is to explain the various important (ii) provisions of the bidding documents to the prospective bidders and to clarify the queries that the bidders may have in the subject, bidding documents.

The technical queries and clarification sought by the prospective bidders and reply to the query is enclosed in Annexure I.

The techno-commercial queries and clarification sought by the prospective bidders are given as under:-

SI. No	Query/ Clarification Sought	Amendment
1.	Mr. M. Santhosh Kumar, representing M/s. Toshniwal Brothers (SR) Private Limited, Chennai, raised concerns about the following in the specifications for Planetary Ball mill.	
	1.1   S.No 2- retain the principle as only impact	The word "friction" is removed
Λ	1.2 S.No.7- reduce speed ratio as 1:-1.82	The ratio will be 1: -1.82 or - 2
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-0-	1.3	S.No.9- Sun wheel 121.6 mm dia.	121 - 141 mm.	
	1.4	S.No.10- G-force of 29g	29-34 g	
	1.5	S.No.24- their inability to quote for 50 ml	1No of 50 ml or higher but not greater than 80 ml Zirconium Oxide jar.	
2.	For the specification of high temperature box furnace, Mr. D. Manikandan, representing M/s. Verder Scientific Private Limited, Hyderabad mentioned that the model they intend to quote		No amendment can be made as the specification is important for the project. The vendor accepted to quote a different model.	
3.	cannot be continuously operated at 1350°C.  As per tender clause No.30, the delivery period for equip will be Four Weeks from the date of issuance of PO. It is very difficult to supply the equipment within four weeks, hence requested for extend in delivery period upto five weeks.		The delivery period shall be five weeks from the date of issuance of purchase order	

The bidders were informed to ensure that all mandatory documents / certificates / undertakings are enclosed with the bids, as specified in the tender document.

The bidders were informed that the minutes of the <u>pre-bid conference and amendment of the bidding forms</u> shall be published on the website of Central University of Tamil Nadu. The bidders were also informed that they should also regularly visit the CUTN website for any amendments issued.

In case of any further information/clarification, they were asked to contact over phone, to the Purchase Section at 04366-277359 (or) send email on <a href="mailto:purchase@cutn.ac.in">purchase@cutn.ac.in</a>; Individual visits are not entertained.

The meeting ended with a vote of thanks to the representatives of the prospective bidders.

Dr. M. Ponmurugan, Assistant Professor,

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Department of Physics

Dr. R. Arun,

Assistant Professor, Department of Physics Dr. K. Venkata Saravanan, Assistant Professor & PI of SERB-ECR Project, Department of Physics

## 2. Specifications forPlanetaryBall Mill

Department of Physics, Central University of Tamilnadu, India is planning to buy ONE Planetary Ball Mill for an ECR project funded by SERB. Detailed specifications of the ball mill and other sub systems are given below. It is requested that models meeting these specifications be quoted along with their detailed specifications and capabilities. It is also requested that reasonable and realistic budgetary prices of these sub systems for different models as well as the total package price for basic unit plus sub systems with different specifications be quoted. For any technical clarification kindly contact Dr. VenkataSaravanan K, PI. (venketvs@cutn.ac.in)

(These are minimum specifications for a guideline. Give full details and specifications of the system in your quote. Any variations must be highlighted)

S.No	Features	Requirement
1	Applications	pulverizing, mixing, homogenizing, colloidal milling, mechanical alloying
2	Feed material	soft, hard, brittle, fibrous - dry or wet
3	Size reduction principle	Impact
4	Material feed size	< 10 mm
5	Final fineness	< 1 μm, for colloidal grinding < 0.1 μm
6	No. of grinding stations	1
7	Speed ratio	1:-1.82 or -2
8	Sun wheel speed	100 - 650 min <sup>-1</sup>
9	Effective sun wheel diameter	121-141 mm
10	G-force	29-34 g
11	Type of grinding jars	"comfort", areation covers, safety closure devices
12	Material of grinding tools	sintered aluminium oxide/ zirconium oxide
13	Setting of grinding time	digital, 00:00:01 to 99:59:59
14	Interval operation	Should be possible with direction reversal
15	Interval time	00:00:01 to 99:59:59
16	Pause time	00:00:01 to 99:59:59
17	Storable SOPs	10
18	Measurement of input energy possible	Should be possible
19	Interface	RS 232 / RS 485
20	Drive	3-phase asynchronous motor with frequency converter
21	Drive power	750 W
22	Electrical supply data	different voltages
23	Power connection	1-phase
24	Grinding Jar	1No of 50 ml or higher but not greater than 80 ml Zirconium Oxide jar.
25	Grinding balls	Zirconium Oxide 10 mm dia.
26	Safety Closure	1 No. for 50ml grinding jar
	Optional Items	W. S.
A	Grinding Jar	Zirconium Oxide 250 ml (1 No)
В	Grinding balls	Zirconium Oxide 05 mm dia. (Mention Unit Price) Zirconium Oxide 15 mm dia. (Mention Unit Price)

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