

CSIR-CENTRAL MECHANICAL ENGINEERING RESEARCH INSTITUTE
MG AVENUE, DURGAPUR – 713 209 [WEST BENGAL]

AMENDMENT TO CSIR-CMERI BIDDING DOCUMENTS AFTER PRE-BID CONFERENCE

File Ref	Brief Description of the Item
PUR/201/ADMAC/05/2016-17	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF CNC CONTROLLED CYLINDRICAL GRINDING MACHINE

The following amendments have been made to the Technical Specifications

Section No.	Specification detailed in CSIR-CMERI bidding document (Ref: PUR/201/ADMAC/05/2016-17)	Amended Specification (After Pre-Bid Conference)
3.022	Grinding Wheel size (ODXIDXWidth): ø550Xø203.2X80 or ø400Xø127X40 or equivalent	Grinding wheel size (OD): 400-500mm
3.059	Supply of suitable controller specific, CNC post processor to suit latest CATIA V5, UGNX, VERO VISI series CAM software output, for effective functioning of all machining parameters.	Grinding Canned cycles must be provided.
3.060	MANUAL PULSE GENERATOR (cordless hand wheel preferable): For manual movement and adjustment of slides handwheel must be provided with selectable amount of movement i.e. 0.001mm, 0.01mm, 0.1mm and 1mm per pulse.	MANUAL PULSE GENERATOR (for remote operation): For manual movement and adjustment of slides handwheel must be provided with selectable amount of movement i.e. 0.001mm, 0.01mm, 0.1mm and 1mm per pulse.
3.065	Dressing device with necessary tool holder and dressing tool (Multi grain diamond) for cylindrical, face dressing, dressing of internal grinding wheel, and taper / angular dressing and radius dressing.	Dressing device with necessary tool holder and dressing tool (Multi grain diamond/ industrial grade/ single point 5 carat diamond) for cylindrical, face dressing, dressing of internal grinding wheel, and taper / angular dressing and radius dressing.
3.066	Dressing device with necessary tool holder and dressing tool for thread grinding.	Deleted
3.067	Possibility to mount dressing tools on tailstock (for quick/intermittent dressing without removing the part).	Provision for mount dressing tools on tailstock (for quick/intermittent dressing without removing the part).
6.002	Appropriate grinding wheels for grinding of steel, stainless steel, alluminium alloy--- 2 nos. Each	Appropriate grinding wheels for grinding of steel, stainless steel, alluminium alloy: 2 nos. each (total 6 wheels).
6.013	Diamond holder with diamond for Wheel dressing:2 nos.	Deleted
6.015	Swiveling dressing device for wheel	Deleted

	dressing on external face or internal grinding; adjustable to final work diameter with provision of micro adjustment and dial indicator.	
6.016	Radius dressing device (for convex and concave radii) for range – 0 to 12 mm with fine adjustment by means of micro meter screw.	Deleted
6.017	Lateral and angular dressing device, swivel range 0 to 90 degrees meant for dressing of grinding wheels on the periphery and on both the sides.	Deleted
7.001	OEM will manufacture at least 01 no. standard test piece on the machine (which will be supplied to CMERI) and forward the inspection report, test piece to CSIR-CMERI along with M/C test Chart report. The cost involve in this will have to be borne by the OEM.	OEM will manufacture at least 01 no. of standard test piece as per ISO 2433 :1999 or equivalent standard within the capacity (maximum) of the machine, which will be supplied to CSIR-CMERI with the inspection report along with Machine test Chart report.
8.001	Installation, commissioning & proving of the machine to its desired capacity and complete satisfaction of the CSIR-CMERI will be done by the OEM's engineer. Commissioning work including acceptance test/component trial will be carried out by the OEM within one month from the date of completion of erection of machine at CSIR-CMERI.	Installation, commissioning & proving of the machine to its desired capacity and complete satisfaction of the CSIR-CMERI will be done by the OEM's engineer/ OEM certified factory trained engineer. Commissioning work including acceptance test/component trial will be carried out by the OEM within one month from the date of completion of erection of machine at CSIR-CMERI.
8.002	During commissioning at least 01 no. of test piece will be produced on the machine and test piece will be inspected for dimensional tolerance, accuracies, surface finish, straightness, perpendicularity, parallelism etc. All the tooling's, work holding devices & Standard Test piece will be supplied by the CSIR-CMERI for machining different samples.	During commissioning at least 01 no. of test piece as per ISO 2433: 1999 or equivalent standard within the capacity (maximum) of the machine will be produced on the machine and test piece will be inspected for dimensional tolerance, accuracies, surface finish, straightness, perpendicularity, parallelism etc. by CSIR-CMERI. Grinding wheel & Work Material will be supplied by CSIR-CMERI for grinding of different samples.
9.001	The supplier shall have to provide training exclusively for 4 to 5 working days in the field of operation and programming, maintenance, mechanical/ electrical etc. to purchaser's personnel by OEM experts at purchaser's site during commissioning of the machine.	The OEM shall have to provide training exclusively for 4 to 5 working days in the field of programming, operation, maintenance (mechanical, hydraulic, electrical & electronics) etc. to CSIR-CMERI personnel by OEM's engineer/ OEM certified factory trained engineer at CSIR-CMERI site after commissioning of the machine.
13.002	The machine model being offered must be a standard latest model. The OEM must have at least 5 installation of the offered configuration machine in India (Documentary evidence must be	The machine model being offered must be a standard latest model. The Date of dispatch should be within one year from date of manufacturing. The OEM must have at least 5 installations of the

	submitted).	offered system/configuration globally. (Documentary evidence must be submitted).
14.001	The basic machine cost should also include any optional items needed to comply the above specifications, the charges for the pre-dispatch inspection, installation & commissioning, training on site etc.	There may be some items which may be optional for some OEM/ bidders but are essential to demonstrate the machine as per specifications. The cost of those items needs to be included in the basic machine cost. This basic machine cost along with the charges for installation & commissioning, training on site etc shall be considered in price bid evaluation.
14.002	The prices of the optional items (as per section no. 6.000 Essential Accessories) to be mentioned separately.	The prices of the optional items (as per section no. 12.000 Optional Accessories) to be mentioned separately but it will not be considered for price bid comparison.
14.008	The accuracies & repeatability's must be in ISO 2344-1 standard or any other suitable international standard.	Deleted
14.009	Vendor should provide along with the offer the Machine Test Chart of similar installed machine for inspection of Geometrical Accuracy, Positioning Accuracy, Repeatability etc in accordance with ISO 230-1 standard or any other suitable international standard.	Vendor should provide along with the offer the Machine Test Chart of similar installed machine for inspection of Geometrical Accuracy, Positioning Accuracy, Repeatability etc in accordance with ISO 2344:1999 standard or any other suitable international standard.

REVISED ESSENTIAL CRITERIA AFTER INCORPORATION OF AMENDMENTS

Sl. No.	ESSENTIAL CRITERIA
01	Rigid high grade Cast iron base, welded structure shall not acceptable.
02	External grinding diameter: Minimum 200 mm
03	Maximum grinding length: 400 mm
04	Weight of job between centers: Minimum 100 Kg
05	Table slide and wheel slide feed servo motor torque: Minimum 7.5 N-m
06	Grinding wheel size (OD): 400-500 mm
07	Wheel head spindle motor capacity: Minimum 7.5 kW.
08	Wheel speed (rpm)—Minimum 1600
09	Work head Spindle speed (infinitely variable): 30-300 rpm or wider range
10	Work head Spindle Motor power: minimum 1.5 kW
11	Work head Motor torque: minimum 22 N-m
12	MANUAL PULSE GENERATOR (for remote operation): For manual movement and adjustment of slides handwheel must be provided with selectable amount of movement i.e. 0.001mm, 0.01mm, 0.1mm and 1mm per pulse.
13	The accuracies & repeat-abilities must be as per ISO: 2433-1999 standard, VDI/DGQ3441 or any other equivalent standard.
14	The machine model being offered must be a standard latest model.

	The Date of dispatch should be within One Year from date of manufacturing. The OEM must have at least 5 installations of the offered system/configuration globally. (Documentary evidence must be submitted).
15	Comments like “yes”, “agreed”, “will be given at the time of supply”, “confirmed” and “will be completed” are not acceptable where numerical values are required to be quoted.

THE DEADLINE FOR SUBMISSION OF BIDS / DATE OF OPENING OF TECHNO-COMMERCIAL BIDS OF THE AFORESAID TENDER IS ALSO EXTENDED AS SHOWN BELOW :

REVISED DEADLINE FOR SUBMISSION OF BIDS	09 MARCH 2017 UPTO 2.30 PM IST
REVISED DATE FOR OPENING OF TECHNO-COMMERCIAL BIDS	09 MARCH 2017 AT 3.00 PM IST

THE BIDDING DOCUMENT OF THE ABOVE CSIR-CMERI TENDER IS AMENDED TO THE EXTENT INDICATED ABOVE. ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.

THE ABOVE AMENDMENTS ALSO AMOUNT TO AMENDMENTS OF THE RELEVANT PROVISIONS OF THE BIDDING DOCUMENTS

STORES AND PURCHASE OFFICER