

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/202/ADMAC/02/2016-17	SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF HYDRAULIC UNIVERSAL CYLINDRICAL GRINDING MACHINE – SEMI AUTOMATIC

The following amendments have been made to the Technical Specifications

Section No.	Specification detailed in CSIR-CMERI bidding document (Ref: PUR/202/ADMAC/02/2016-17)	Amended Specification (After Pre-Bid Conference)
2.007	Wheel Slide through Turcite-B/ equivalent/better lined V & Flat guide ways or Precision Ball screw and Nut arrangement or Hardened and precision ground feed screw.	Wheel Slide through Turcite-B/ equivalent/better lined V & Flat guide ways on Precision Ball screw and Nut arrangement or Hardened and precision ground feed screw.
2.008	Provision for backlash error adjustment.	Deleted
3.011	Grinding wheel size (OD x ID x Width): 500mm x203.2mm x80mm or 400mm x127mm x 40mm or equivalent	Grinding wheel size (OD): 400-500mm
3.014	Spindle motor power: Minimum 4kW	Spindle motor power: Minimum 3.7 kW (5 HP)
3.020	Table speed: speed infinitely variable 0.1-3 m/min or better range	Table speed: 0.1-3 m/min or better range
3.022	Minimum automatic travel: 2 mm	Automatic travel: ≥2 mm
3.029	Adapter Sleeve MT5/MT4/MT3 with nut for extraction	Adapter Sleeve MT5/MT4/MT3 with suitable extraction system
3.032	Hydraulic Actuation for Work head	Deleted
3.033	Spindle speed: variable 28-300 r.p.m or wider range	Spindle speed: variable 60-300 RPM or wider range
3.059	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.
4.002	Appropriate external grinding wheels for grinding of steel, stainless steel, aluminum alloy---- 2 nos. Each	Appropriate external grinding wheels for grinding of steel, stainless steel, aluminum alloy: 2 nos. Each (total six).
4.003	Appropriate internal grinding wheels for grinding of steel, stainless steel, aluminum alloy---- 2 nos. Each	Appropriate internal grinding wheels for grinding of steel, stainless steel, aluminum alloy: 2 nos. Each (total six)

4.006	Vibration damping bases.	Vibration damping bases/ pads.
4.007	3-jaw self centering chuck (dia.300) with external and internal clamping.	3-jaw self centering chuck (Ø200 mm) with external and internal clamping.
4.008	Four jaw independent chuck dia. 300 mm.	Four jaw independent chuck Ø 200 mm
5.001	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. standard test piece as per IS 2368 or ISO 2433 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.
6.001	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.
6.002	During commissioning at least 01 no. of standard test piece will be produced on the machine and test piece will be inspected for dimensional tolerance, accuracies, surface finish, straightness, perpendicularity, parallelism etc. and machine will be calibrated by using laser interferometer. All the toolings, work holding devices, laser interferometer & Standard Test pieces will be supplied by the CSIR-CMERI for machining different samples.	During commissioning at least 01 no. of standard test piece as per IS 2368 or ISO 2433 or equivalent standard within the capacity (maximum) 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.
7.001	The OEM shall have to provide training exclusively for 6 to 7 working days in the field of programming, operation, maintenance, mechanical/hydraulic/electrical etc. to CSIR-CMERI personnel by OEM experts at CSIR-CMERI site during commissioning of the machine.	The OEM shall have to provide training exclusively for 6 to 7 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.
11.002	The machine model being offered must be a standard latest model and in manufacturing line for not more than two years. The OEM must have at least 5 installation of the offered machine in India (Documentary evidence must be submitted).	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).
12.001	The basic machine cost should also include any optional items needed to comply the	There may be some items which may be optional for some OEM/ bidders but are essential to demonstrate

	above specifications, the charges for the pre-dispatch inspection, installation & commissioning, training on site etc.	the machine as per specification. 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.
12.002	The prices of the optional items (as per section no. 4.000, Essential accessories) to be mentioned separately.	The prices of the optional items (as per section no. 10.000 Optional Accessories) to be mentioned separately but it will not be considered for price bid comparison.
12.008	The accuracies & repeatability's must be in IS 2368 or ISO 2433 standard or any other suitable international standard.	Deleted

REVISED ESSENTIAL CRITERIA, AFTER INCORPORATION OF AMENDMENTS

Sl no.	Essential criteria:
01	Length for external Grinding: Minimum 750 mm
02	External grinding diameter: ≥ 240 mm ≤ 8 mm
03	Internal grinding diameter: ≥ 120 mm ≤ 20 mm
04	Length for internal grinding: Minimum 150 mm
05	Maximum weight of job between centers : ≥ 100 kg
06	Maximum weight of job on chucking operation: ≥ 45 kg
07	Grinding wheel size (OD): 400-500 mm
08	Grinding wheel spindle motor power: Minimum 3.7 kW (5 HP)
09	Table stroke: minimum 850 mm
10	Internal grinding Spindle speed: Minimum 18000 rpm
11	Internal grinding motor Power: Minimum 1kW
12	The accuracies & repeat-abilities must be as per IS 2368 or ISO 2433 standard or any other equivalent standard.
13	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).
14	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