



**SPECIFICATION
FOR
UNIVERSAL STRENGTH MACHINE**

No: CFF/SFQC-10
Rev No.: 00
Date: 15.06.2015
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1.0. OBJECTIVE :

This technical specification covers the supply of Universal Strength Machine (Hydraulic) to determine compressive & tensile strength of foundry sand mix.

2.0. TECHNICAL REQUIREMENTS:

2.1 Compressive Strength :

- Equipment should be capable to measure compressive strength of 0-200 kg/cm².
- Provision for High dry strength arrangement may be used for testing higher dry compressive strength.

2.2 Tensile Strength :

- Equipment should also have provision to measure tensile strength of 0-50 kg/cm².

2.3 Equipment should be capable to hold specimen of standard size for both type of strength arrangement.

2.4 Manufacture shall provide calibration certificate of equipment from a recognized laboratory.

2.5 Manufacturer shall also provide calibration procedure & supply essential calibration kit for calibration along with equipment, if required.

2.6 Supplier shall specify probable source of calibration with offer.

2.7 If some specific oil used for operation, supplier shall specify the same with source and supply 1L of oil with equipment.

2.8 Supplier shall provide spares and consumables for trouble free operation for at least 2 years. These spares and consumables will be quoted along with offer separately.

3.0. GENERAL REQUIREMENTS:

3.1 Instrument shall be guaranteed for minimum one year after supply for trouble free service.

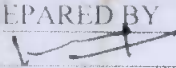
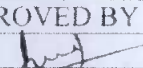
3.2 The equipment shall be tropicalized for operating temperatures from 4 °C to 50 °C, Humidity 20-95 % (RH) & dusty atmosphere.

3.3 Instrument shall be as per applicable National/International standard.

3.4 Supplier shall demonstrate the satisfactory performance of the equipment, if required.

3.5 Supplier shall provide three sets of operation and maintenance manual.

3.6 Supplier shall submit Annex-A for technical suitability.

SIGN AND DATE	PREPARED BY	CHECKED BY	APPROVED BY
	 SUSHANTI PANDEY	 ARUN K AGARWAL	 V K AGARWAL



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Annexure- A

TECHNICAL DATA SHEET FOR UNIVERSAL STRENGTH MACHINE

Ref:

Vendor:

The vendor should filled the "Offered" Column in compliance to specified requirement and deviation if any

SL. NO.	CL. NO.	Properties/particulars*	Specified	Offered
1	1.0	Objective	To offer	
2	2.1	Compressive Strength	(a)Range : 0-200 Kg/cm2 (b)High Strength arrangement Yes/No If yes specify the measuring range of both part.	
3	2.2	Tensile Strength	Range : 0-50 Kg/cm2	
4	2.3	Holding of Specimen	Standard size/ To confirm	
5	2.4	Calibration certificate	(a) To confirm (b) Calibration period, specify	
6	2.5	(a)Calibration procedure (b)If additional equipment required for calibration (c) supply of calibration kit	(a) To confirm (b) To confirm, specify (c) To confirm	
7	2.6	Source of calibration	Specify	
8	2.7	(a)Essential for operation (b) supply of oil ,if required	(a)Specify (b) To confirm	
9	2.8	Spares for 2 year operation	To confirm & provide list with offer, if any.	
10	3.1	Guarantee period	1 year, To confirm	
11	3.2	Operating Condition	To confirm	
12	3.3	National Standard	Specify/ To confirm	
13	3.4	Demonstration	To confirm	
14	3.5	Operation & maintenance manual	To confirm	
15	-	Confirmation of Spec. If any deviation specify	-	

* These are indicative, for more details refer Spec Clause as mentioned. Vendor may use additional pages for Annex-A.

	PREPARED BY	CHECKED BY	APPROVED BY
SIGN AND DATE			
	SUSHANT PANDEY	ARUN K AGARWAL	V K AGARWAL