

Before correction	After correction
<p>Clause no:1.1 An automated Immersion Ultrasonic System for the inspection of Cylindrical bars and hollow tubes made of various metal alloys through pulse echo method.</p> <p>Diameter range : 8 mm – 300 mm Max. Length : 6000 mm Max. Weight : 3 Tonnes. Minimum wall thickness (for tubes): 2 mm</p>	<p>An automated Immersion Ultrasonic System for the inspection of Cylindrical bars and hollow tubes made of various metal alloys through pulse echo method.</p>
	<p>Bars:</p> <p>Diameter range : 8 mm – 300 mm Max. Length : 6000 mm Min.Weight : 200gms Max. Weight : 3 Tonnes.</p>
	<p>Tubes: Minimum wall thickness (for tubes): 2 mm Diameter range : 8 mm – 60 mm Max. Length : 1000 mm Min.Weight : 200gms Max. Weight : 1 Tonne.</p>
<p>Clause No:2. System Design: The system must be immersion ultrasonic technique. An immersion tank is to be provided together with a scanning gantry, ultrasonic instrumentation, motion control, water system, operator station and software for part setup, motion, data collection and evaluation The sample will be run at a minimum speed of 20 RPS during inspection and shall have control on rotational speed of sample along with provision of stop and analysis of defect/FBH/Notch.</p>	<p>System Design: The system must be immersion ultrasonic technique. An immersion tank is to be provided together with a scanning gantry, ultrasonic instrumentation, motion control, water system, operator station and software for part setup, motion, data collection and evaluation The sample will be run at a minimum speed of 20 RPM during inspection and shall have control on rotational speed of sample along with provision of stop and analysis of defect/FBH/Notch.</p>
<p>Clause No:3.2 Bar Rotator :</p> <ul style="list-style-type: none"> •The bar rotator shall consist of a set of drives and a set of driven rollers with polyurethane coating, the bar shall be able to rotate in any direction. Suitable VFD of Siemens/ABB make to be supplied. •Mechanical design shall allow release area for loading and unloading parts to avoid shocks when handling parts. Easy maintenance and accessories for routine maintenance shall be provided. 	<p>Bar Rotator :</p> <ul style="list-style-type: none"> •The bar rotator shall consist of a set of drives and a set of driven rollers with polyurethane coating, the bar shall be able to rotate in any direction. Suitable Servo Drive/VFD of Siemens/ABB make to be supplied. •Mechanical design shall allow release area for loading and unloading parts to avoid shocks when handling parts. Easy maintenance and accessories for routine maintenance

<p>Clause No;16 Eligibility criteria:</p> <p>The supplier should have supplied</p> <ul style="list-style-type: none"> Minimum 5 Nos. of Immersion testing UT machines of similar capacity and application(bar inspection) globally in the last 5 years(as on tender date) meeting the sensitivity of 0.8 FBH defects in bars of up to 300mm diameter(Steel & steel alloys, and Titanium & titanium alloys). Machine should have been supplied, installed & commissioned and in working condition as on tender date. Supplier shall provide brief description of the systems supplied previously, customer and salient features of the equipment along with specifications. The details of the above shall be furnished to assess the suitability of the supplier and their previous experience in supplying similar equipment's. If the supplier does not furnish the above details along with technical bids, no clarifications will be sought in this matter and their offer will be rejected. Midhani reserves the right to accept or reject the offers based on the experience of the party in supplying similar capacity machine and sensitivity levels mentioned in specifications. If the supplier has not supplied for testing of titanium products ,then, technical bid will reviewed be accepted based on satisfactory demonstration & certification by ASNT Level III(UT) qualified person. The demonstration & certification by ASNT level III shall be on Titanium (Ti6Al4V) reference blocks made in accordance to ASTM E 127 or 428 having 0.8mm FBH at 25mm,50mm,75mm,100mm,125mm,150mm,175mm,200mm,225mm,250mm,275mm & 300mm Metal Paths. It is supplier responsibility to arrange Titanium reference blocks at their own cost. The ASNT Level III person shall certify that he has witnessed the demonstration on proposed machine which meets all the specification requirements and the report shall provide complete details of results like SNR,C-scan ,A results etc. Incomplete or insufficient information report will not be acceptable and no clarifications will be sought in this matter and their offer will be rejected. Midhani team will review the results and if found suitable, then only bid will be technically accepted. If the supplier provided results are not clear or requires more clarity, Midhani team may visit to verify the demonstration and reserve the right to reject the bid if not found suitable or satisfactory. The supplier should have after sales service/AMC support in India. The supplier must be in a position to attend the repair call within 48hrs. The supplier can be OEM or Authorized Representative in India. 	<p>The supplier should have supplied</p> <ul style="list-style-type: none"> Minimum 5 Nos. of Immersion testing UT machines of similar application (bar inspection) globally in the last 5 years(as on tender date) meeting the sensitivity of 0.8 FBH defects in bars of up to 300mm diameter (Steel & steel alloys, and Titanium & titanium alloys). Machine should have been supplied, installed & commissioned and in working condition as on tender date. Supplier shall provide brief description of the systems supplied previously, customer and salient features of the equipment along with specifications. The details of the above shall be furnished to assess the suitability of the supplier and their previous experience in supplying similar equipment's. If the supplier does not furnish the above details along with technical bids, no clarifications will be sought in this matter and their offer will be rejected. 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