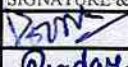
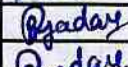
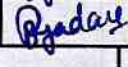
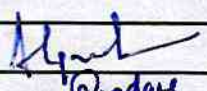
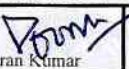
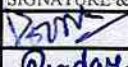
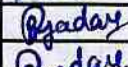
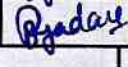
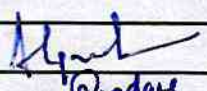
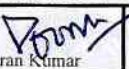
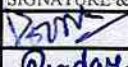
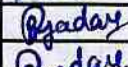
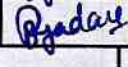
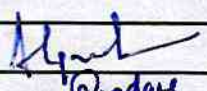
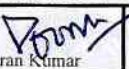


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ikexzh lwph la{k dk	SUPERSEDES INVENTORY NO.	<u>APPARATUS FOR OXIDATION STABILITY TEST</u> 1.0 General: The test apparatus determines oxidation stability of coal in thermal Power plant. 2.0 General Terms & Conditions 2.1 Document: One hard copy of O&M Manual in English language giving complete technical information for operation and maintenance of the equipment shall be supplied. 2.2 Installation and Commissioning: The supplier shall install & commission the equipment at Site. Supplier should demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters quoted by them to the satisfaction of BHEL/end user. <i>Cost of installation & Commissioning, if any, should be indicated separately.</i> <i>Failing to comply to the Installation and Commissioning clause, the offer will be rejected straightaway.</i> 2.3 Guarantee: The equipment shall be guaranteed/warranted for satisfactory performance for a period of 12 months from the date of installation or 18 months from date of dispatch, whichever is earlier. <i>Failing to comply to the Guarantee / Warranty clause, the offer will be rejected Straightaway.</i> 2.4 Packing & Dispatch: The equipment / accessories shall be packed in a suitable water Proof/vibration proof packing box capable of bearing air and road transit hazards. Packing box shall be properly identified and marked with BHEL's (India) Purchase Order Number. Also, "PCRI HWR" should be written in bold letters on all four sides of the packing box.																																						
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PRODUCT PURCHASE SPECIFICATION

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APPARATUS FOR OXIDATION

1.0 General: The test apparatus determines oxidation stability of new and in-service turbine oils and other Industrial oils. Generally the test is carried out in pressurized test vessel in presence of water and copper catalyst at 150 °C. The amount of time required for specific drop in pressure which is the measure of oxidation stability. The test apparatus provided in accordance with ASTM D 2272, ASTM D4742, IP 229 test methods. The apparatus comprises of oxidation oil bath, oxidation pressure vessels, pressure recorder, pressure measurement system, copper catalyst, breakers, etc. with computer for data transfer & storage.

2.0 TECHNICAL SPECIFICATION :

- 2.1 Heating bath : The constant temperature liquid heating bath SS/MS mfg.
- 2.2 Oxidation vessel : SS made pressure vessel body, cap, closure ring and stem. Chrome plated closure ring.
- 2.3 Pressure recorder : Rotary transducer and rotates on magnetic carriage in RPVOT bath.
- 2.4 Glass sample container : Borosilicate glass with capacity 175 ml and have a sliding fit in.
- 2.5 Control panel : PID type, digital temperature indicator cum controller, set point, continuous display.
- 2.6 Recording devices : Electronic pressure transducer, bomb couplings, data acquisition card, software, etc.
- 2.7 Recommended spares : Copper catalyst wire, pressure vessel support racks, Oxygen charging accessories etc.

3.0 General Terms & Conditions

3.1 Document: One hard copy of O&M Manual in English language giving complete technical information for operation and maintenance of the equipment shall be supplied.

3.2 Installation and Commissioning: The supplier shall install & commission the equipment at Site. Supplier should demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters quoted by them to the satisfaction of BHEL/end user.

Cost of installation & Commissioning, if any, should be indicated separately.

Failing to comply to the Installation and Commissioning clause, the offer will be rejected straightaway.

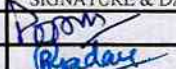
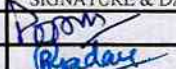
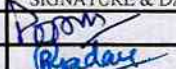
3.3 Guarantee: The equipment shall be guaranteed/warranted for satisfactory performance for a period of 12 months from the date of installation or 18 months from date of dispatch, whichever is earlier.

Failing to comply to the Guarantee / Warranty clause, the offer will be rejected Straightaway.

3.4 Packing & Dispatch: The equipment / accessories shall be packed in a suitable water Proof/vibration proof packing box capable of bearing air and road transit hazards. Packing box shall be properly identified and marked with BHEL's (India) Purchase Order Number. Also, "PCRI HWR" should be written in bold letters on all four sides of the packing box.

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SUPERSEDES INVENTORY	<u>Pensky Martens Flash Point Apparatus</u>																																							
lkexzh lwph la{k dk	1.0 Name of the Equipment : Pensky Martens Flash Point Apparatus 2.0 General: It is used to measurement of Flash Point of Oil & Lubricants. 3.0 TECHNICAL SPECIFICATIONS: 3.1 Pensky martens flash point tester Closed as per IP 34 ASTM D93 & IS 1448 3.2 Electrically heated model with control (Voltage varrier copper coil) with oil jet or gas jet test flame. 3.3 Thermometer for pensky martens with calibration certificate I.P. 15C (-7/110C X 0.5C) I.P. 16C (90/370C X 2C) 4.0 General Terms & Conditions 4.1 Document: One hard copy of O&M Manual in English language giving complete technical information for operation and maintenance of the equipment shall be supplied. 4.2 Installation and Commissioning: The supplier shall install & commission the equipment at Site. Supplier should demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters quoted by them to the satisfaction of BHEL/end user. <i>Cost of installation & Commissioning, if any, should be indicated separately.</i> <i>Failing to comply to the Installation and Commissioning clause, the offer will be rejected straightaway.</i> 4.3 Guarantee: The equipment shall be guaranteed/warranted for satisfactory performance for a period of 12 months from the date of installation or 18 months from date of dispatch, whichever is earlier. <i>Failing to comply to the Guarantee / Warranty clause, the offer will be rejected Straightaway.</i> 4.4 Packing & Dispatch: The equipment / accessories shall be packed in a suitable water Proof/vibration proof packing box capable of bearing air and road transit hazards. Packing box shall be properly identified and marked with BHEL's (India) Purchase Order Number. Also, "PCRI HWR" should be written in bold letters on all four sides of the packing box.																																							
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SUPERSEDES INVENTORY NO.	<u>Interfacial tension apparatus</u>																																								
lkexzh lwph laf{k dks	1.0 Name of the Equipment : Interfacial tension apparatus 2.0 Interfacial apparatus as per IS: 6104 used to measure interfacial tension of oils. 3.0 Specification: 3.1 Standard measurement: 0.1 to 72 mN/m 3.2 Temperature: Ambient to 180° C 3.3 Temperature accuracy: 0.1 ° C 3.4 Pressure: 700 bar (10,000 psi) 3.5 Wetted parts: Stainless steel, option : hastelloy 3.6 Power supply : 220 VAC 50 HZ 4.0 <u>General Terms & Conditions</u> 4.1 Document: One hard copy of O&M Manual in English language giving complete technical information for operation and maintenance of the equipment shall be supplied. 4.2 Installation and Commissioning: The supplier shall install & commission the equipment at Site. Supplier should demonstrate the performance of the Equipment and all its accessories to ensure compliance with complete specifications & parameters quoted by them to the satisfaction of BHEL/end user. <i>Cost of installation & Commissioning, if any, should be indicated separately.</i> Failing to comply to the Installation and Commissioning clause, the offer will be rejected straightaway. 4.3 Guarantee: The equipment shall be guaranteed/warranted for satisfactory performance for a period of 12 months from the date of installation or 18 months from date of dispatch, whichever is earlier. Failing to comply to the Guarantee / Warranty clause, the offer will be rejected Straightaway. 4.4 Packing & Dispatch: The equipment / accessories shall be packed in a suitable water Proof/vibration proof packing box capable of bearing air and road transit hazards. Packing box shall be properly identified and marked with BHEL's (India) Purchase Order Number. Also, "PCRI HWR" should be written in bold letters on all four sides of the packing box.																																								
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