

ANNEXURE

TENDER NO-53.11.5035

Specification for Rust, Heat & Water scale and corrosion remover
ORION-31 or equivalent.

REQUIRED CHEMICAL CHARECTERISTICS: -

SR	PARAMETER	VALUE
1	Chemical Composition	Containing a blend of mineral acids, surface active agents and corrosion inhibitors.
2	Physical Form	Green colored, clear, mobile viscous liquid
3	Specific Gravity	1.45 + 0.01 @ 30 degree C
4	PH Value: 1% solution in water	Less than 2
5	End Point	36- 42 ml of 1N NaOH.
6	Chloride Content	Nil
7	Solubility in water	Infinite
8	Operating Dilution	For heavy duty purpose: 30-50% v/v in water For light duty purpose: 10-25% v/v in water For iron phosphating 5% v/v in water @ 180 degree F
9	Operating Temperature	Room temperature to 180 degree F depending Upon the intended use
10	Operating Time	15 Minutes to 4 hours depending upon the Degree of contamination.

Annexure

TENDER NO -53.11.5041

Description- A SET OF ITEMS FOR METALLURGICAL INVESTIGATION IN LABORATORY CONSISTING 05 ITEMS AS FOLLOWING-

Sr.	Description	QTY
1	HIGH QUALITY RESIN ACRYLIC LIQUIDE FOR COLD MOUNTING OF STEEL MICRO SAMPLES.	5 LTRS
2	HIGH QUALITY RESIN ACRYLIC POWDER FOR COLD MOUNTING FO STEEL MICRO SAMPLES	5 KGS
3	DIAMOND POLISHING PASTE IN 5 ML PACK FOR POLISHING OF STEEL MICRO SAMPLES. MICRON SIZE-1 MICRON.	10 NOS
4	DIAMOND POLISHING PASTE IN 5 ML PACK FOR POLISHING OF STEEL MICRO SAMPLES. MICRON SIZE-3 MICRON.	10 NOS
5	SELF STICKING VELVET POLISHING CLOTH FOR POLISHING OF STEEL MICRO SAMPLES GRIT SIZE-01 MICRON ROUND DIA-305 MM	100 NOS

ANNEXURE

TENDER NO-53.11.5044

Description :- Electro magnetic Yoke along with MPI test bar and puffer bulb Model Y-7 manufactured by ITW or similar.

Specification as following:--

Sr.No.	Description	Qty
01	Working voltage ó 220/230 volts 50 H2 AC supply Input current ó 2 Amps Distance across poles ó 0 to 300 mm Magnetic field ó AC ó constant level, DC-pulsed infinitely variable. Flux density ó Approx 10,500 lines Offorce/CM2 at 100 mm pole spacing. Lifting power in HWDC Model ó Approx 27 kg. at 100 mm spacing. Yoke weight ó 3.5 kgs. Approx. Controls (a) On / Off Switch (b) AC/DC Switch (c) DC field intensity potentiometer.	01 No.

ANNEXURE

TENDER NO-53.11.5045

**Description :- Micro processor based ultrasonic thickness gauge
Model – ETM - 2 alongwith following items;-**

1	Protective cover with calibration block.
2	Carring case
3	Instruction Manual
4	General purpose probe
5	Calibration certificate
6	Step block 1- 10 mm, Ten steps made of Mild steel
7	Range ó 1 mm to 199.9 mm
8	Resolution - 0.1 mm
9	Size - 120mm x 60 mm x 25 mm
10	Weight ó 175 Gms.Approx.

Annexure

TENDER NO-53.11.5051

Description :A set of high tensile hex head bolt with nut & washers.

Qty : 4000 sets (One set consists of 03 items)

Specification details:

S.No.	Item	Qty for one set
1	High tensile hex. Head.Bolt with nut. Size- M8 X 40mm; Thread pitch- 1.25 Nut & bolt head size A/F ó 13 mm. to IS 1364 & material specification IS: 1367. Property class ó 10.9 Make ó Unbrako/LPS/TVS or equivalent.	One each of bolt & nut.
2	Punched washers plane steel- Size : OD ó 20 mm; ID ó 8.2 mm; Type-õBö Thickness ó 3.5+0.1mm IS: 2016, Material IS : 513- 1994	02 nos
3	Spring washer IS:3063-1994- Type õBö Size : OD ó 14.2 mm; ID ó 8.2 mm ±0.1 mm; Thickness ó 2 mm.	01 no.