

INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

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Corrigendum 1

Dated: June 29, 2016

Tender for Supply & Installation of Optical Emission Spectrometer
NIT No.: IITJ/SPS/MECH/1/1(I)/2016-17/19

ANNEXURE – I

Item: Optical Emission Spectrometer

Technical Specifications for Optical Emission Spectrometer:

- Detectors: Minimum 6 or more CCD detector required to cover entire working spectrum.
- Focal length: 350 mm or more

Now read as:

Technical Specifications for Optical Emission Spectrometer:

- Detectors: Multi CCD detectors required to cover entire working spectrum.
- Focal length: 100 mm or more

New added specifications:

- **Spark Source:**
Digital Pulsed Current Controlled Source;
Wavelength range: 160 to 410 nm
- **Resolution:**
Resolution of 13/30 pm to ensure high resolution
- **Analysis of nitrogen in steels:**
The spectrometer should be capable for Analysis of Nitrogen in Steels.

- **Analytical programmes:**

ANALYTICAL PROGRAMME FOR Fe-BASE

Element	LAS/MS/CS	CI/SG Iron	Cr-Ni- Steel	Cr-Steel	Mn Steel
C	0.0060-1.5000	0.8000-4.5000	0.0070-0.4500	0.0060-0.4000	0.0300-2.0000
Si	0.0080-1.5000	0.0500-4.0000	0.0200-2.0000	0.0150-1.5000	0.0200-2.0000
Mn	0.0100-2.0000	0.0100-1.5000	0.0200-2.0000	0.0100-2.0000	2.0000-20.000
P	0.0050- 0.1500	0.0050-0.6000	0.0060-0.1000	0.0050-1.0000	0.0060-0.1500
S	0.0040-0.1000	0.0020-0.2000	0.0030- 0.1000	0.0020-0.1000	0.0050-0.1000
Cr	0.0100-5.3000	0.0150-3.0000	2.0000-30.000	2.0000-25.000	0.0200-4.0000
Mo	0.0080-1.5000	0.0050-1.5000	0.0200-6.5000	0.0100-1.5000	0.0200-2.0000
Ni	0.0100-5.5000	0.0150-4.5000	2.0000-25.000	0.0300-6.0000	0.0200-4.0000
Al	0.0050-0.3000	0.0030-0.1000	0.0080-0.0500	0.0040-0.1000	0.0060-0.5000
Cu	0.0050-1.0000	0.0100-1.5000	0.0080-2.5000	0.0100-2.2000	0.0100-0.7000
Ti	0.0040-0.3500	0.0050-0.5000	0.0040-1.5000	0.0020-0.5000	-
V	0.0080-1.0000	0.0070-1.0000	0.0060-1.0000	0.0050-0.5000	0.0100-0.5000
Nb	0.0060-0.2500	0.0200- 0.3000	0.0200-1.5000	0.0080-1.5000	-
W	0.0400-1.5000	0.0150-0.3000	0.0200-0.1000	0.0100-0.2000	-
Co	0.0050-0.5000	0.0150- 0.5000	0.0100-0.5000	0.0100-0.3000	-
B	0.0003-0.0500	0.0050-0.1000	0.0005-0.0050	-	-
Sn	0.0050-0.2000	0.0050-0.2000	0.0040-0.0200	0.0050-0.1000	0.0080-0.1000
As	0.0080-0.1000	0.0080-0.1500	0.0050-0.0200	-	-
Pb	0.0050-0.2500	0.0150-0.0500	-	-	-
Zr	0.0080-0.1000	-	-	-	-
Ca	0.0020-0.1000	-	0.0020-0.1000	0.0020-0.1000	-
N	0.0050-0.2000	-	0.0200-1.0000	-	0.0300-0.1000
Sb	0.0200-0.1000	-	0.0200-0.1000	0.0200-0.1000	-
Bi	0.0100-0.1000	-	0.0100-0.1000	0.0100-0.1000	-
Mg	-	0.0050-0.1500	-	-	-
Zn	0.0100-0.0800	0.0100-0.2000	-	-	-
Se	-	0.0040-0.0100	-	-	-
Ce	0.0070-0.0500	0.0070-0.0500	-	-	-
Fe	R - E - F - E - R - E - N - C - E				

ANALYTICAL PROGRAMME FOR Al-BASE

Element	Al-Low Alloy	Al-Si-Cu	Al-Si	Al- Global
Si	0.0150-1.5000	1.0000-20.000	3.0000 – 20.000	0.0300-15.0000
Fe	0.0100-1.5000	0.0150-2.0000	0.0300 – 1.5000	0.0150-2.0000
Cu	0.0100-1.5000	0.1000-10.000	0.0250 – 1.0000	0.0300-15.0000
Mg	0.0150-1.5000	0.0200-1.5000	0.0250 – 0.6000	0.0200-13.0000
Mn	0.0100-1.5000	0.0100-1.5000	0.0200 – 1.5000	0.0200-1.5000
Ti	0.0050-0.5000	0.0050-0.5000	0.0100 – 0.5000	0.0100-0.5000
Zn	0.0150-0.5000	0.0250-4.0000	0.0250 – 0.8000	0.0300-8.0000
Ni	0.0100-0.5000	0.0100-1.5000	0.0300 – 0.8000	0.0300-1.5000
Pb	0.0080-0.5000	0.0100-0.5000	0.0400 – 0.5000	0.0300-0.5000
Sn	0.0100-0.5000	0.0200-0.5000	0.0400 – 0.5000	0.0300-0.5000
Cr	0.0100-0.5000	0.0080-0.5000	0.0200 – 0.5000	0.0200-0.5000
Be	0.0001-0.0500	0.0001-0.0500	0.0001 – 0.0500	0.0001-0.0500
Sr	0.0005-0.0500	0.0005-0.1000	0.0005 – 0.1000	0.0003-0.15000
Zr	0.0015-0.5000	0.0020-0.0500	0.0080 - 0.5000	0.0050-0.5000
Ca	0.0005-0.0500	0.0008-0.0500	0.0030 – 0.0500	0.0030-0.0500
V	0.0050-0.2000	0.0080-0.2000	0.0100 – 0.2000	-
Bi	0.0200-0.2000	0.0250-0.1000	0.0100 – 0.2000	0.01500-0.2000
Ga	0.0200-0.1000	0.0100-0.1000	0.0100 – 0.0500	0.0100-0.1000
Sb	-	0.0020-0.0100	0.0030 – 0.0100	-
Co	-	0.0100-0.3000	0.0150 – 0.5000	0.0150-0.5000
Cd	-	0.0010-0.0100	-	-
B	-	0.0080-0.0500	-	-
P	-	0.0030-0.0100	-	-
Al	R - E - F - E - R - E - N - C - E			

Other Terms & Conditions will remain same.
