

Annual Procurement Plan FY 25-26

Details of the items/Title of the items	Quantity
(50 kg Mg batch scale) Isolation valves and transfer line pig iron moulds with automatic/motorized movement	1
1) White Pigment, 2) Red Oxide Pigment, 3) Methyl Ethyl Ketoxine (MEKO)	50 Kg each
1,2-Diaminoanthraquinone	250g
1,4,5,8-Naphthalenetetracarboxylic dianhydride	0.5Kg
1,8-Dichloroanthraquinone	250g
2-Aminoterephthalic acid	01 set
4-amino-1,2,4 triazole	20 kg
Acetone	200 ltr
Ag / AgCl electrode	250g
Al-Foil	20
Aluminium Foil	02 Nos
Aluminium powder	5 kg
Ammonium niobate oxalate hydrate	5L
Amorphous Boron	5L
Amorphous Sulphur	5L
Antimony chloride	5L
Antimony Powder	4 nos
Antimony sulphide	2pc
ARGON gas cylinders	50 Nos
Ar-H2 Mix Gas	1
Ascorbic acid	25 kg
Axolite disk resin paper 14	200 nos
Ball mill – 10 kg capacity	01 No.
Base metals, REEs, PGEs, mixed/multi-element standards	50 Nos
Bead mill – 2 liter capacity	01 No.
Beaker	4 nos.
Benzoic acid CRM	20
Benzoyl peroxide	50 kg
Bismuth powder	2 kg
Boron powder	2 kg
Bromoform	1
Butyl cellosolve	200 kg
Calibration of measuring instruments/sensors	2
Cartridge	09 Nos
ceramic Al2O3 outlet d2.0 mm, H55, Q=1300	4no.
Cocoamidopropyl betaine	200 kg
Copper Foil	2kg
Customised tubes for thermocouples	20
Desk Top Computer	1
Diethyl Carbonate	1 kg
Diethylene triamine	50 kg
Disperse Blue 1	500ml
Distillation Unit Condenser	02 Nos
Enamel Trey	100 Nos
Epoxy hardener	200 kg
Epoxy resin	200 kg

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Erbium Standard , 1000 PPM, NIST Traceable	500ml
Ethanol	1 Kg
Ethylene Glycol Monobutyl Ether	300 Ltr
Europium Standard , 1000 PPM, NIST Traceable	500ml
Fabrication of FCGR samples	60 No
Fabrication of fracture toughness specimens	60 No
Ferric sulfate	25 kg
Ferro alloys for master alloy preparation	1 kg
Ferro Chrome (High Carbon) Approx % Cr: 50 to 90 & % C: 5 to 10	100gm
Ferro Chrome (Low Carbon) Approx % Cr: 50 to 70 & % C: 0.5 to 5	100gm
Ferro Manganese (High Carbon) Approx % Mn: 60 to 90 & % C: 5 to 10	100gm
Ferro Manganese (Low Carbon) Approx % Mn: 50 to 70 & % C: 0.01 to 5	100gm
Ferro Molybdenum (High Molybdenum) Approx,%Mo: 70 to 90	100gm
Ferro Molybdenum (Low Molybdenum) Approx,%Mo: 50 to 60	100gm
Ferro Molybdenum (Medium Molybdenum) Approx,%Mo: 60 to 70	100gm
Ferro Silicon (High Silicon) Approx % Si :75 to 95	100gm
Ferro Silicon (Low Silicon) Approx % Si: 40 % to 55	100gm
Ferro Silicon (Medium Silicon) Approx % Si: 60 % to 70	100gm
Ferro Titanium (High Titanium)	100gm
Ferro Titanium (Low Titanium)	100gm
Ferro Vanadium (High Vanadium)	100gm
Ferro Vanadium (Low Vanadium)	100gm
Ferrocene	1kg
Ferrocene Derivative	30Nos.
FFC Ribbon Flat Cable, Jumper Pins with wire for circuit connection	90 Nos each
FILTER PAPER 41	20
FILTER PAPER 42	20
Filter Paper 40	50
Filter Paper 42	20
Filter Paper Grade 1440 - 125	50
Furnace	01-02 nos/pairs
Gas Diffuser DP27235	2 nos
Germanium(IV) ethoxide	30
Glass bottle	10
Glassware	1
Glassy carbon electrode	1
Gold Sputter Target for Hitachi MC 1000 Sputter Coater (Accessory of Hitachi SU7000 FESEM)	01 unit
Graphite electrode	5 units
Hafnium Standard , 1000 PPM, NIST Traceable	500ml
HI-ALUMINA INSULATOR	1 set
High grade Iron Ore (Approx: %Fe 50-69)	3
High magnetic energy density and resistance to demagnetization.	100gm
High purity-Chemical analysis	01 Set
High temp melting, Heat treatment , Sheath	20
High-End Laptop for R&D work	30 nos
Hoechst wax micro powder, Tableting aid for X-Ray Fluorescence Analysis	01 unit
Holmium Standard , 1000 PPM, NIST Traceable	02 kg

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Hydrochloric Acid (Litre)	500ml
ICP Standard for Co	500
ICP Standard for Cu	5 Units
ICP Standard for Ni	5 Units
Inconel 625 MIG Welding Wire Spool(1.2mm Dia)	5 Units
Indium Standard , 1000 PPM, NIST Traceable	15KGs
Indium Standard,1000 PPM,NIST Traceble	500ml
Insulated Jacket Heater Length of heater-120-130 mm Length	1
Iolar, XL-grade	01 set
Isopropyl alcohol	10Nos.
KANTHAL HEATER DIA 3 mm	02 sets
Laboratory Glassware Bottles (Screw- Neck Bottles as per IS 1388 (part 1) 100 mililiter)	1
Lanthanum nitrate	2000 Nos
Lanthanum Standard , 1000 PPM, NIST Traceble	20
Laptop (Intel core)	1
LiPF6 Electrolyte	01 Nos
Lithium acetate	100
Lithium bis(trifluoromethane) sulfonimide (LiTFSI)	5
Lithium Hexa Fluoro Phosphate 500g	500g
Lithium Standard,1000 PPM,NIST Traceble	02 Nos
Lithium Tetraborate 500g	500g
Low grade Iron Ore (Approx: %Fe 30 50)	01 No.
Lutetium Standard , 1000 PPM, NIST Traceble	100gm
Magnesium Oxide	500g
Magnetostrictive sensing device for pipe inspection : MagStrics	200 kg
Maintenance of vacuum system	Two Unit
Maleic resin	01 pump
Malonic acid	100 kg
Manganese carbonate	100 kg
Manganese Ore (Approx: %Mn: 15 to 30),Low Grade	8 nos
Manganese Ore (Approx: %Mn: 30 to 60),High Grade	100gm
Manganese sulphate	100gm
Mercuric Chloride- AR Grade, 100 Gm/Pk	20 kg
Mercury Standard,1000 PPM,NIST Traceble	15
MgO basic ramming Mass (Temperature Upto 1950°C)	5-500 g
Mild steel plate	2 Nos.
MS frame structure (As per Annexure)	100 kg
MS Office Life time license	12
Multielement Standard Soln. For ICP -15 components (10mg/L) 100ml	500 ml
Multielement Standard Soln. For ICP -20 components (10mg/L) 100ml	3 Nos
Multielement Standard Soln. For ICP -3 components P, S,Si (10mg/L) 100ml	3 Nos
Multielement Standard Soln. For ICP -33 components (100mg/L) 100ml	10 Nos
N N Dicyclohexyl carbodiimide	3 Nos
NdFeB magnet scrap	50 kg
Neodymium Standard , 1000 PPM, NIST Traceble	100 kg
Ni/Fe-Crucible	1
Nickel Crucible 25 ml,50ml	50 Lit

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Nickel Crucible 30 ml,40ml	100
Niobium Standard , 1000 PPM, NIST Traceble	200 Ns
NIST traceable	1
Nitric Acid	200gm
Nitrile gloves	300
Nitrile Hand Gloves	30 pkt
One Time Repairing and Servicing Humidity Chaber	30 pkt
Orthophosphoric acid (KG)	10
Orthophosphoric acid, commercial grade	350
Overhead stirrer	350
P-10 GAS CYLINDER (90 %ARGON +10% METHANE) PURITY 99.99%	500 kg
Packed tower gas scrubber for exhaust gas absorption	02 No.
Palladium Standard , 1000 PPM, NIST Traceble	1
Perchloric Acid	1
Peristaltic pump with VFD module flow controller	1
Perylene-3,4,9,10-tetracarboxylic dianhydride	10
Phosphorus pentasulphide	2 Nos
PID Controller	10
Platinum Standard , 1000 PPM, NIST Traceble	100 no.
Polyurethane hardener	500ml
Polyurethane resin	10 nos.
Polyvinylidene Fluoride(PVDF)	200 kg
Polyvinylpyrrolidone	200 kg
Potassium dihydrogen phosphate	100gm
Praseodymium Standard , 1000 PPM, NIST Traceble	5 nos
Propylene carbonate	50 kg
Pure Fe, Cr, Mn, Ni, Co, V, Nb	200 kg
Pyromellitic dianhydride	1 set
Pyromellitic diimide	10 Kg
Red phosphorus	16
Re-filling of Argon Gas cylinder(XL Grade)- Purity 99.999%	10
Refilling of Helium Gas Cylinder	12 Nos.
Refilling of Hydrogen And Argon Gas mixture Cylinder	600
Refilling of Nitrogen Gas Cylinder (IOLAR Grade)	10 Nos
Refilling of Oxygen Gas Cylinder (XL Grade)	10 Nos
Refilling of UHP Oxygen Gas Cylinder	150
Retort accessories fabrication	6
Rubidium Standard , 1000 PPM,NIST Traceble	10
samarium Standard , 1000 PPM, NIST Traceble	20
Sample fabrication (tensile(flat and round), charpy, fracture toughness, wear sample milling and cutting)	1
Sample holder, AL or SS flanges, Gas pipe and ducts, bubbler	1
Scandium Standard , 1000 PPM, NIST Traceble	One Unit
Selenium Powder	500g
Selenium Standard , 1000 PPM, NIST Traceble	35 units
Silica disk	1
Silicon Manganese (High Manganese) Approx,%Mn: 60 to 80 & %Si: 15 to 30	2

Details of the items/Title of the items	Quantity
Silicon Manganese (Low Manganese) Approx,%Mn: 40 to 60 & %Si: 15 to 40	20 No.
Soda Ash	100gm
Sodium bromide	2 set
Sodium carbonate	50 kg
Sodium Hexa Fluoro Phosphate	01 Nos
Sodium Hydroxide	10
Sodium perchlorate	100
Sodium Peroxide AR, 100 Gm/Pk	10 kg
Sodium sulphide	20
Spent Batteries	5 units
Spot Extractor	2 units
Strontium Standard , 1000 PPM, NIST Traceble	200 kg
Sulfur Standard , 1000 PPM, NIST Traceble	3
Tantalum butoxide	1
Tantalum chloride	50 kg
Tantalum Electrolytic Capacitors(0.0-1F)	4 Nos.
Tantalum metal powder	1 kg
Tantalum Standard , 1000 PPM, NIST Traceble	08 kg
Teflon Sheet (50 mtr/pk)	50-200 g packing (min)
Tellurium Standard , 1000 PPM, NIST Traceble	500ml
Thorium Standard, 1000 PPM, NIST Traceble	1 No
Thulium Standard , 1000 PPM, NIST Traceble	100gm
Tin acetate	500ml
Tin nitrate	500ml
Tin Standard , 1000 PPM, NIST Traceble	100gm
Titanium butoxide	500ml
Titanium dioxide, commercial grade	1000g
Titanium isopropoxide	100
Titanium propoxide	100 kg
Titanium tetrachloride	5 Nos. each
TMT rebar, 8 mm dia	100
Toluene	01 set
Toluene / Sulphure Free Toluene	1
Tungsten Metal powder	2 kg
Tungsten Standard,1000 PPM,NIST Traceble	2 kg
Tungstic acid	200 kg
Uranium Standard , 1000 PPM, NIST Traceble	500ml
Vertical Tubular Furnace (1350 °C)	03 set
Vinyl trimethoxysilane	500
Xanthan gum	500 Nos
X-Ray Photoelectron Spectroscopy (XPS) Analysis	1 No.
Ytterbium Standard , 1000 PPM, NIST Traceble	30 Nos
Yttrium Standard , 1000 PPM, NIST Traceble	50
Zirconium acetate hydroxide	500ml
Zirconium carbonate	5 kg
Zirconium Standard , 1000 PPM, NIST Traceble	1
Zirconium sulphate	10 units

Details of the items/Title of the items	Quantity
Spark Emission Spectrometer (OES) for Fe, Cu, Pb & Zn base	1
X-ray Fluorescence Spectrometer (XRF)	1
Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)	1
Coal Petrography Microscope	1
Isoperibol Calorimeter (2 Nos)	1
Magnet Power Supply (Model 643, Lakeshore Cryotronics, Inc. USA)	1
Computer Controlled Micro Hardness Tester (Brinell / Knoop / Vickers) with licensed software	1
Humidity Test Chamber	1
SSRT machine for SCC and corrosion fatigue at high temperature and high pressure water environment	1
Dense Media Cyclone Test Rig	1
Solar Panel Delamater System	1
Isothermal Conduction Calorimeter	1
Furnace Gas Analyzer (4-5 channels)	1
Atomic Absorption Spectrophotometer	1
Inline-Particle Size Measurement System (SOPAR)	1
TG.DTA.DSC upto 1700C compatible with 100% H ₂ /CO atmosphere	1
Muffle Furnace (part of molten salt electrolysis setup)	1
Vertical Pit Furnace (part of molten salt electrolysis setup)	1
Servo-Hydraulic Fatigue Test Systems (2 Nos)	2
Laser Source for Lock-in	1
Automatic Broach Machine	1
Portable Plasma Cutter Machine	1
Portable Gas Cutting Machine with accessories	1
CNC Lathe Machine	1
Solidedge License Upgradation	1
Multiparty Endpoint Video Conferencing System with Display	1
Comprehensive Maintenance Contract for Servers, Computers and Networking Components	1
Projector for Lecture Hall / Auditorium / Committee Room / DJ Hall	1
Display for Dias at Auditorium	1
NG Firewall	1
Computers and Printers	1
Fabrication Facilities for Cylindrical Battery	1
MATLAB and Toolboxes Upgradation	1
Impedance Analyzer	1
Vibrating Sample Magnetometer (3T)	1
FTIR Spectrometer	1
Lab Scale Flotation Machine	1
Lab Scale Ball Mill (5-10Kg) with automation	1
Stereo Zoom Trinocular Optical Microscope	1
FESEM with EDS, WDS, CL, Mineral DB and Analysis Software	1
Multistage Leaching Setup with Filtration System	1
X-Ray Diffractometer with stress, texture, heating, and deformation stages	1
Transformer and Thyristor	1
PL Fluotar I00X Objective lens	1
Berkovich Diamond Tip	1
Standard thermocouple Rtype	1

Details of the items/Title of the items	Quantity
High performance submersible borehole AISI 304 pump	1
Peristaltic pump with VFD module flow controller	1
1.512.5 liter flotation cell	1
Niobium and Tantalum crucible for metal isothermic reduction	1
SS 316 Vessel and Liners for Autoclaves	1
Filters for ultra-water purification unit	1
Upgradation of Vacuum Induction Furnace Panel for 75 kw	1
Upgradation of Direct-Reading Spectrometer (DRS) Software QMatrix 4.0.0 for Windows 10	1
Furnace high-purity alumina tube	1
02 nos. Ni-Cr alloy Retorts for Mg	1
Fume exhaust & scrubber	1
Copper cables	1
Image PB spare for JEOL EPMA	1
Upgrade Kit CPU of Bruker D8 Discover X Ray Diffractometer	1
Co-X Ray tube and HV Cable for Rigaku Ultima IV X-Ray Diffractometer	1
Single tilt holder for JEOL 2200F S Transmission electron microscope	1
Dry pump for goniometer	1
Gold Au Sputtering Target	1
Short detector chip + Be window with board and box for XSTRESS 3000 Portable X Ray Diffractometer	1
Encoder Eye Piece and Standard Test Blocks for Brinell Hardness Tester	1
Renewal of ICDD licenses (02) to PDF 5* version	1
Installation of WinCC s/w for Direct load ATS Machine	1
Data logger for creep machines	1
Acceleration cable for Dynamic Loading for Vibrophore 100	1