

List J – Anticipated Requirement of East Yard Materials and Services for the next two years 2015-16 (& 2017-18)

SR NO	BRIEF DESCRIPTION OF MATERIAL/SERVICES, APPLICABLE DRAWINGS/TECHNICAL SPECIFICATION	ESTIMATED QTY	TENTATIVE PERIOD WHEN MATERIAL/SERVICES REQUIRED
1	Annual Maintenance Contract for Jaldoot Make 4- wheeler battery operated Platform Truck Load capacity= 2 Tons Asset No – 300410039 Sr. No.- 09/ 2010/ SFBT/ 23	Service for 1 No per Year	Continuous requirement From Year 2015 Onwards
2	Rocol RTD Metal Cutting Compound	50 Cans of 500 Gms	Continuous requirement From Year 2015 Onwards
3	Permanent Paint Marker (Various Colours)	50 Nos Per Year	Continuous requirement From Year 2015 Onwards
4	Cutting Insert CNMG 120408 TF IC 907	200 Nos Per Year	Continuous requirement From Year 2015 Onwards
5	Cutting Insert CNMG 120404 TF IC 907	200 Nos Per Year	Continuous requirement From Year 2015 Onwards
6	Rabakote Antirust Compound	30 Litres per Year	Continuous requirement From Year 2015 Onwards
7	WD 40 Compound	10 Cans of 450 ml Each Per Year	Continuous requirement From Year 2015 Onwards
8	Cutting Insert CCMT 09 T3 08	200 Nos Per Year	Continuous requirement From Year 2015 Onwards
9	Cutting Insert CCMT 09 T3 04	200 Nos Per Year	Continuous requirement From Year 2015 Onwards
10	BI-METAL -M42 COBALT HSS BANDSAW BLADE CONTINUOUS TYPE SIZE (L X W X T)=(4674 MM X 34 MM X 1.1 MM) 4/6-TPI TOOTH HARDNESS RC 66-68	40 Nos per Year	Continuous requirement From Year 2015 Onwards
11	LED Torch Light	20 Nos per Year	Continuous requirement From Year 2015 Onwards
12	Lubrication Oil Super 85 W – 140, 210 Lit	210 Lit Per Year	Continuous requirement From Year 2015 Onwards
13	Services required for Resistivity Check(ohm-cm), Chlorides & fluorides check(mg/l), turbidity check(matter in suspension-mg/l) of DM Water sample	20 water Samples per Year	Continuous requirement From Year 2015 Onwards
14	Services required for checking contamination level of FHARI (Water based polyglycol) Hydraulic oil using NAS 1638 cleanliness standard. The equipment used for checking the cleanliness class must use mesh blockage technology.	50 oil Samples per Year	Continuous requirement From Year 2015 Onwards
15	Services required for calibration of Pall Make PCM 400 Contamination monitor. Accuracy Required- 1) Particle Count # +/- 0.2 ISO 4406 Counts of Reference Instrument when Tested with ISO	2 PCM 400 machines per year	Continuous requirement From Year 2015 Onwards

	<p>Medium Test Dust (ISO MTD)</p> <p>2) Temperature Calibration of Within +/- 2Deg Celsius of Reference Instruments</p> <p>The Calibration Service Must Include</p> <ul style="list-style-type: none"> • Analysis of engineer's diagnostic report and rectification of any faults found • Battery, Power supply and clock check • Performance evaluation on calibration fluid • Software update to latest release level • Check for oil leaks and rectification as necessary • Last chance filter replacement • Flush, strip and clean all internal components • Relief valve check and reset • If appropriate, the incorporation of any design enhancements introduced since built • Replace 6 micron and 14 micron meshes and flush housings • Transducer calibrations • Perform production validation procedures • Software menu checks • Return Equipment to customer 		
16	Safe Disposal of Spent oil/ Dirty Oil/ Lubricants used in Engineering workshop Eastyard	10 Drums of 200 Liters each per year	Continuous requirement From Year 2015 Onwards
17	Blue matching & scraping of rudder hydroplanes cones	15 Rudder cones per year	Continuous requirement From Year 2015 Onwards
18	Scanning of documents	3600 pages per year	Continuous requirement From Year 2015 Onwards
19	Core Cutters - 60mm to 130mm	30 Nos.	Aug-Sep 2015
20	HSS Taper Shank Drill	200 Nos.	Aug-Sep 2015
21	Torque Wrenches and accessories	28 Nos.	Aug-Sep 2015
22	<p>Triennial Rate contract for Physical and Chemical testing of materials and preparation of test specimens for submarine division.</p> <p>Test & Technical specification</p> <p>Spec.- SCI-200031,</p> <ol style="list-style-type: none"> 1. Chemical analysis of ferrous and non ferrous material- ASTM 2. Macrograph NFA 05 – 152 & NF EN 1321 3. Cylindrical tensile test-NF EN 10002 –1 & NF EN 876 4. Perpendicular tensile tests-NC EN 895 5. Side bends-NF EN 910 6. Impact test of weld metal -NF EN 100 45 -1 & NF EN 875 7. Impact test of heat affected zone-NF EN 100 45 -1 & NF EN 875 8. Hardness testing-NF EN 1043 -1 9. 20 point testing for galvanized pipe samples & 	Total for different type of test: 5000 nos	Aug-2018

	<p>10. Zinc porosity for galvanized samples STF 33-04-16E C</p> <p>11. Testing of blocks of synthetic foam</p> <p>a) Final density as per NF EN ISO 845</p> <p>b) Compressive strength as per DIN EN 826</p>		
23	<p>Triennial Rate contract for Gamma radiography, X-ray, Ultrasonic Testing, Magnetic particle testing and Dye penetrate testing work on Unit Rate Basis for submarine division. As per approved NDT Procedure</p> <p>Test</p> <ol style="list-style-type: none"> 1. Gamma radiography 2. X-ray for piping 3. Ultrasonic testing 4. Ultrasonic thickness gauging 5. Magnetic particle testing 6. Dye Penetrate testing 	<p>15000nos</p> <p>25000 nos</p> <p>1500 meters</p> <p>10000 nos</p> <p>15000 meters</p> <p>10000 meters</p>	<p>June-2017</p>
24	<p>TRCs for hiring services of inspection agencies for Carrying out Inspection of fabrication, Piping, welding, NDT, painting, Insulation etc. works carried out by MDLs contractors & receipt inspection of Procured items etc at MDL's/Contractor's premises for Submarine division</p>	<p>6000 man days</p>	<p>Sept 2018</p>
25	<p>Scanning of Documents</p>	<p>240000 pages</p>	<p>APRIL 2018</p>
26	<p>Photocopying</p>	<p>10000/month</p>	<p>2016-17</p>
27	<p>NDT instruments</p> <ol style="list-style-type: none"> 1. welders gauge 2. digital fillet gauge 3. digital depth gauge 4. radiographic viewers 5. temperature gauges(Contact & non contact type) 6. Ultrasonic thickness gauge (for pipes as small as 8mmOD and 1 mm thickness) 7. Transmission Densitometer with own light source for measuring optical density 2 to 4 	<p>20</p> <p>20</p> <p>5</p> <p>2</p> <p>10</p> <p>2</p>	<p>2017</p>
28	<p>Mechanical Instruments</p> <ol style="list-style-type: none"> 1. Digital Clinometers 2. Vernier caliper 3. Digital Thermometer 4. Rectangular gauge block set , grade '0' 5. Digital micrometer. 0-25mm, Least count 0.001mm 6. Digital micrometer. 25-50mm, Least count 0.001mm 8. Digital Universal Protractors 	<p>2</p> <p>6</p> <p>3</p> <p>2</p> <p>5</p> <p>5</p> <p>4</p>	<p>2017</p>

29	Painting Instruments 1. Dew point meter 2. DFT meter 3. Probe for DFT meter	2 2 2	2017
30	Electrical Instruments 1. Digital Multimeter 2. Clamp Meter 3. Meg ohm meter 4. Continuity Tester	4 4 5 6	2017
31	Tandberg LTO5 Tape Cartridge: Required for taking daily backups on tapes. a) Data Cartridge: 20 Nos /month b) Cleaning cartridge: 1 No/month Required on continual basis monthly.	21 Nos	1st July 2015
32	Annual Maintenance Contract of UPS and Batteries of East Yard-Design. a) 10KVA Emerson UPS: 1 Nos. b) 20 KVA Emerson UPS: 3 Nos c) 42 AH Batteries: 26 Nos d) 65 AH Batteries: 78 Nos	4 Nos	20th Jan 2016
33	Annual Maintenance Contract of UPS and Batteries of East Yard-Design. a) 10KVA Emerson UPS: 1 Nos.14 b) 6KVA Emerson UPS: 1 No c) 26AH Batteries	2 Nos	12th Sept 2015
34	Services: Triennial Maintenance Contract of Servers Storage and Networking Equipment in East Yard Design a) Oracle M4000 Servers-2 Nos b) Cisco Switches 3750 -2 Nos c) Cisco Switches 2960 -4 Nos d) EMC VNX 5300 Storage-1 No e) EMC Celera NAS Box-1 No f) Tandberg Tape Library-1 No g) EMC Data domain DD620 - 2 Nos h) SAN Switches -3 Nos i) Backup Server IBM 3550- 1 No j) DNS Server IBM 3650 - 1No k) EMC Networker Software- 1 No l) Red hat Linux OS- 1 No m) Windows Server 2008- 1 No n) KVM switches - 2 Nos o) Network KVM - 2 Nos	1 AU	12th Sept 2015
35	Disaster Recovery System	1 AU	1st Jan 2016
36	Up gradation of File Server , Data Domain and Tape Library	1 AU	1st Jan 2016
37	Datacenter Renovation	1 AU	1st Jan 2016

38	Various OEM Tools such as Voice Deta Recorder, Laptop, Analyser Analog.	3 items	Sep-15
39	Network cables such as Torpedo Cable Halogen Free, Ethernet AV1 6 PB Filotex & 267 724	5 items	Sep-15
40	Coating (Paints, Primers & Thinner) Chemco International make coating	1 item	Mar-16
41	Battery cells of High AH rating to be installed on board Submarine used to supply DC power to various machineries and main propulsion motor& Connectors for batteries.	3 sets for 3 SMs	Nov-16, Aug-17, May-18
42	Radiated noise & cavitation measurement tools such as Transducer & cable	2 tools & 12 Services	Jul-16
43	Fresh Water Osmosis Plant (PALL)	4 Sets for 4 SMs	Oct-15 to Feb-16
44	Combat System Specific Tools to be used for installation, connectorisation of SONAR, RADAR, Navigational Aids , Under water Sensor/ Transducers, Submarine torpedo fire control system and communication System.	31 items	May-15 to July-16
45	Steel Profiles	53 items	Oct-15
46	Internal Cables- Armoured Power Cables.	6 Balance items	Jul-16
47	Welding Consumables, E69, Size: dia: 3.15 or 3.2mm	1.5 Lakh Nos	Sep-15
48	Welding Consumables, W46, dia:2.4mm	850 Nos	Sep-15
49	Welding Consumables, Solid bare filler rod, W19 9 L, d:1.2mm, N-AIMg5, dia:2mm	58 Kg, 250 Kg	Sep-15
50	Welding Consumables, Solid bare filler rod, W42 4 W3 (dia:1.6mm and 2.4mm) and W19 9 L, d:2.6mm	450 Kg, 80 Kg, 50 Kg	Sep-15
51	Welding Consumables, Solid filler rod, SG-Cu Ni 30Fe(dia:1.6mm)	47 Kg	Sep-15
52	Elbow & Tee Accessories	3 items	Sep-15
53	Add qty-CS & SS Pipes	24 items	Dec-15
54	Various Shipyard Tools such as Pump & filter, Water Meter, Compressor, Densitometer etc.	33 items	Dec-15

55	Oil & Grease	2 items	Jan-16
56	Flux FH11	265 Kg	Sep-15
57	SM-39 tools used for installation, connectorisation and testing of missiles.	10 items	Jul-16
58	Add items-Pitch Diameter rod & Nut	42 items	Dec-15
59	No Quote & Tech rejected Steel Plates & Profiles	7 items	Dec-15
60	Nuts, Bolts & washers	116 items	Dec-15
61	Non Pressure Hull Penetration	5 items	Dec-15
62	PC network such as Rugged Server, Laptop & Desktop	3 items	Sep-15
63	Synthetic Foam	10.5 M3	Dec-15
64	Cast Iron Block: Required services for leveling and installation of Cast Iron blocks in workshop. Size - 7mtr x 7mtr x 210mm thick.	4nos	Dec'2016
65	Hydraulic Press tools: Required goose neck tool for forming of steel materials on press. a. 2000T Hydraulic press machine Goose neck tool. Size -2mtr length, Qty -2nos. b. 500T Hydraulic Press machine Goose neck tool. Size - 2mtr length, Qty-2nos	4nos	Oct'2016
66	Oxy/act regulators, Gousing nozzles, Tip cleaner, Flash back arrester	110 Nos.	Aug-Sep 2015
67	Oxy Acty gas torch, heating torch, LPG gas torch	34Nos.	Aug-Sep 2015
68	Mobile Battery Charger: 1) Input Power Source a) Rated AC Voltage: 415 V \pm 5%. b) Rated Frequency: 50 Hz \pm 2% c) No of Phases: 3 phase (4 wires). d) Protection: Connection cell MT + motor-driven circuit breaker MT. Note: In build Transformer should have efficiency more than 98 %. 2) Output Power a) Rated Output DC Voltage: Adjustable 0 to 550 V b) Rated Output DC Current: Adjustable 0 to 2000 A c) Rating Class: Continuous. d) Ripple: Less than 3 % RMS at full load. 3) Dimension: with in 5X2.5X4 in meters (LXWXH)	1 no	Aug2015
	Mobile Discharge Resistance Unit:	1 nos	

69	This unit is to be used for the load trials and discharge of the 'Scorpene' class submarine propulsion batteries in the shipyard. a) Nominal voltage: 380V DC b) Maximum voltage: 500V DC c) Minimum voltage: 300V DC d) TOTAL POWER: 1200KW e) Ohm value tolerance: +10 % f) Resistance material: FECRAL Dimension: with in 5X2.5X3.5 in meters (LXWXH)		March 2016
70	AC Shore Supply: 1) Input Supply Input Supply Voltage - 415V +/- 10% 3 Phases Frequency - 50 Hz +/- 4% Protection – MCCB earth leakage 2) Output Requirement Output Voltage - 120 V, 3 Ph, 4 wire. Neutral to be provided which should not be connected to the neutral of input. Frequency - 60 Hz, KVA rating - 50 KVA, Maximum output Power – 45 KW, Power Factor - 0.9, Voltage waveform - Pure sinusoidal	2 nos	Sep 2015
71	DC Shore Supply: 1) Line Input: Line voltage - 3 x 440 VAC, +/- 10 % Line Frequency: 50 +/- 4% Protection: MCCB earth leakage to be provided. 2) Output Ratings: Output Power Range - 0-178 KW, Output Voltage Range - 25-504V, Output Current Range - 0-353A Protection: MCCB to be provided.	2 nos	Sep 2015
72	Portable Power Supply unit 120 V / 60 Hz, 25 KVA 1) Input Supply Input Supply Voltage: 415V +/- 10%, 3 Phases Frequency: 50 Hz +/- 4% Protection: MCCB with earth leakage, 2) Output Requirement Output Voltage: 120 V, 3 Ph, 4 Wires. Frequency: 60 Hz, KVA rating: 25 KVA, Max. Output Power: 22.50 KW, Power Factor: 0.9 Voltage waveform: Pure sinusoidal Protection: MCCB	2 nos	Sep 2015
73	Procurement of Adhesive cloth Protection tape for Combat system equipments.	200 Sq Mtrs.	Aug-Sep 2015
74	Overhaul and Modernisation of Hausler plate rolling machine	1 no.	Aug-Sep 2015
75	Modernisation & Reconditioning of 200T Hyd press	1 no.	Aug-Sep 2015
76	1. SS working table &	6 nos	Aug-Sep 2015

	2. accessories(Engg)	2 sets	
77	Pr regulator (L&Wn)	4 Nos.	Aug-Sep 2015
78	Tool sets (L&Wn) used for electrical and electronics equipment installation and connectorisation of Submarine equipment.	4 Nos.	Aug-Sep 2015
79	Bore dial gauges	3 AU	Aug-Sep 2015
80	Refurbishment of 500T Hyd press	1 nos	Aug-Sep 2015
81	Tool cabinet for Tool storage (L&Wn)	3 nos	Aug-Sep 2015
82	Essential spares for Orbital tig welding machine M-205 with weld head M9-675 for pipe shop)	127 Nos.	Aug-Sep 2015
83	Spares required for OS 10 crane of ALY	72 Nos.	Aug-Sep 2015
84	Spares for Godrej make 3 T Fork lift	25 Nos.	Aug-Sep 2015
85	Spares for water coolers	25 Nos.	Aug-Sep 2015
86	Spares for EWM make Phonix - 351 Mig welding machine - 40-000748-E0003 control Board	3 Nos.	Aug-Sep 2015
87	Imprinted Vinyl Coated Wall Paper	30 Rolls	Aug-Sep 2015
88	Canvas Hose Pipe with Inside rubber line & Antibacterial growth protection & IS make for east yard	720 Mtrs.	Aug-Sep 2015
69	Pipe Cutting Machine	2 Nos.	Aug-Sep 2015
90	Repair of AC Servo Motor	1 AU	Aug-Sep 2015
91	Essential spares for Orbital tig welding machine	32 Nos.	Aug-Sep 2015
92	Angular brushes	1000 Nos.	Aug-Sep 2015
93	Flash Back Arrester for Gas Cutting Torch End	60 Nos.	Aug-Sep 2015
94	Tig welding torch suitable for REHM make, Mode: Transits 400 Tig welding Machine.	4 Nos.	Aug-Sep 2015
95	Supply & Installation of Telephone sets, Tele-Fax machine & Projector at East-Yard (3rd floor-EY Store Building & 2nd floor D-2 Building)	34,4 and 1 No.	Aug-Sep 2015
96	Supply of Refrigerator at East Yard (3 rd floor-EY Stores Building & 2nd floor-D2 Building)	2 Nos.	Aug-Sep 2015
97	PTFE Resin moulded sheets	54 Nos.	Aug-Sep 2015
98	Canvas bags 17 gauge - 20x12x24"	500 nos	Aug-Sep 2015