

### List of Consumables with responsibility matrix

| Sl. No.  | Type of Consumable   | Owner Scope | O&M Operator |
|----------|--|-------------|--------------|
| <b>1</b> | <b>Gaskets &amp; Gland Packings</b>  |             |              |
| a        | Steam/Water/Oil/Acid/Paper/Rubber gasket sheets & Pre-Cut gaskets - Metallic & Non-Metallic  |             | ✓            |
| b        | Asbestos Free Rope, Ceramic Fiber Rope, O Ring Cords - Nitrile Rubber, Viton Rubber, Neoprene Rubber sheets, Teflon Sheets   |             | ✓            |
| c        | All types of Gland Packing Ropes (Graphite, PTFE), O Ring  |             | ✓            |
| d        | Spiral Wound gaskets, Copper Gaskets, Special gaskets for (Heater, De-aerator, HP - LP Bypass Valves, BFP & BP casing gasket, PHE gasket, Boiler Drum, Main Turbine Gaskets, CW Pump & hydraulic units, RSV, TV, GV, IV, Cross Over Pipe, HIP turbine transfer pipe flange gaskets, LP turbine safety Diaphragms - lead sheet ). | ✓           |              |
| e        | Special Gland packings and Special purpose O -rings (HPLP bypass, EH System etc. )   |             | ✓            |
| f        | Pressure Seals, U-seal, HP valves gaskets, Ingraf rings HP valve glands excluding Line flanges.  |             | ✓            |
| g        | All types of rubber/nylon/teflon pads  |             | ✓            |
| <b>2</b> | <b>Welding Electrodes &amp; Consumables</b>  |             |              |
| a        | General purpose electrodes (E 6013, E6010, E7018, E308, E309, E310, E316), Cast iron Cutting & Machinable electrodes All Filler Wires, E7018-1, E7018-A1, E8018-B2, E9018-B3, E9018-B9, E9018 G, E347-16, ENICRFE2/3, Inconel Rod & Filler wire etc.   |             | ✓            |
| b        | Special Purpose Electrodes (Hard facing Electrodes,  | ✓           |              |
| c        | Welding & Cutting Gases, Soldering & brazing Materials, Welding accessories like shield holders, Wire leads, brush, Holders, Gas cutting sets, Regulators  |             | ✓            |
| d        | DP Kit, MPI/RT/UT/SR/Pre & Post Weld heat treatment accessories including consumables  |             | ✓            |
| <b>3</b> | <b>Industrial Gases</b>  |             |              |
| a        | Argon, Oxygen, Acetylene, Co2 for Generator, Nitrogen & Calibration gases for instruments.   |             | ✓            |
| b        | Empty Gas Cylinder Procurement - CO2 and N2  | ✓           |              |
| c        | SF6, Refrigerants for AC, GIS, Drier etc., Gases for Inergen System (Fire fighting system), Nitrogen gases used for Preservation   |             | ✓            |

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| <b>4</b> | <b>Jointing compound (Sealants &amp; Glues)</b>  |             |              |
| a        | Thread sealant, Gasket sealant, Silicon sealant, O-ring sealant and Jointing compounds, Loctite, Anabond, Fevicol, Metal sealant, Glass Putty, PVC Solution, Hole Sealant, Blue matching paste, STAG - B, Hylomer, Metal Putty, Sodium Silicate, Petroleum Jelly, Molykote -1000, Molykote Powder, Graphite Powder, RTV 736, |             | ✓            |
| b        | GRP/HDPE/CPVC Jointing & Repair compounds  |             | ✓            |
| c        | Jointing compound for coal pipe ceramics, Spray compounds for burner, Boiler Tube Sprays,  | ✓           |              |
| d        | Sealants for Generator End shields   |             | ✓            |
| <b>5</b> | <b>Tapes</b>   |             |              |
| a        | All types of tapes - Insulation tapes, Glass tape, Masking tapes, Plastic cellulose tapes, Fiber glass tapes, Teflon tape, PVC tapes and Cotton Tapes etc excluding HV tapes   |             | ✓            |
| <b>6</b> | <b>Cleaning Agents</b>   |             |              |
| a        | Cotton rags, Rust remover, Soap, Detergents, Rustolene, WD-40, Disinfectants, Thinner and solvent, CRC, CTC, Kerosene, Petrol / Diesel for cleaning purpose, Wire brush, Gada Cloth, Marking cloth, Cotton Waste, Emery sheets, Grinding wheels, PCB cleaner solution, Oil stone, Special Emery wheels                       |             | ✓            |
| <b>7</b> | <b>Rubber &amp; Metallic Seals</b>   |             |              |
| a        | All type of Mechanical Seal  | ✓           |              |
| b        | Soft good kit for Mechanical Seal refurbishment  | ✓           |              |
| c        | Oil seal Teflon (Hydraulic Cylinders, Changeover Valves of JOP, MDBFP AOP Duplex Filters, TDBFP Lube Oil Skid Filters Changeover Valves), Resilient seal ring for Butterfly valves (except rubber), Turbine lub oil filters,   | ✓           |              |
| d        | Hydraulic Actuator Seal kit (EH oil, HPLP bypass, HCSD hydraulic cylinder Bladder and all actuators etc.)  | ✓           |              |
| e        | Profile seal (BFP-Interstage, other equipment), Dome Valve Seal, Pneumatic Valve Seals   | ✓           |              |
| f        | All types oil Seals  |             | ✓            |

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| 8       | <b>Hose, Tube &amp; Expansion Joints</b>  |             |              |
| a       | Wire braided hydraulic hoses (HP LP bypass, EH Oil, BAH, PA Fan, FD Fan, Mill, CHP Area etc.)   |             | ✓            |
| b       | Hoses for Acid/Alkali applications & other general applications   |             | ✓            |
| c       | Hoses of Fuel oil system (Unloading, Connection with tank etc.)   |             | ✓            |
| d       | All type of Rubber Expansion bellows except CW Line   |             | ✓            |
| e       | All type of Metallic Expansion bellows  | ✓           |              |
| f       | All type of SS & Metallic tubes and fittings  | ✓           |              |
| g       | All type of PVC Tubes and Push Fittings (limited to 2") & Metallic (MS/CS & GI) tubes and fittings (upto 1").                                   |             | ✓            |
| 9       | <b>Hardwires (Fasteners and Washers)</b>  |             |              |
| a       | Nails, Split pins, Binding wires, Insulation Screws, Lead Wires, Hose Clamps up to 2 Inch, Impulse & Air tubing Fittings (Copper & Festo tubes) |             | ✓            |
| b       | Any size Shims (SS & brass)   |             | ✓            |
| c       | MS fasteners and Washers  |             | ✓            |
| d       | HT fasteners, SS fasteners and Washers, Cadmium coated nut & bolts  |             | ✓            |
| e       | Special purpose fasteners, Impeller Nuts, Disc Nuts   | ✓           |              |
| f       | MS/SS Pipes & fittings  | ✓           |              |
|         | UPVC/CPVC/HDPE Pipes & fittings upto 80 NB  |             | ✓            |
| 10      | <b>All type of Filters &amp; Strainers (Air, Oil, Water, Steam, Fuel etc.)</b>  |             |              |
| a       | RO safety filters, Cartridge filter (Stator water, Oil purifier, RO, UF etc.)   | ✓           |              |
| b       | All types of filter and strainers upto cost of Rs. 3000/- each (expect OEM manufactured)  |             | ✓            |

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| <b>11</b> | <b>Diaphragm</b>  |             |              |
| a         | Rubber diaphragm for valves, Pneumatic Actuators  | ✓           |              |
| b         | Teflon Diaphragm for pumps  | ✓           |              |
| c         | Rubber diaphragm for bags & any other type of Diaphragm   | ✓           |              |
| d         | Main Turbine & TDBFP rupture disc, Accumulator bladders   | ✓           |              |
| e         | MOV Maintenance Kits  | ✓           |              |
| <b>12</b> | <b>Coupling</b>   |             |              |
| a         | Coupling Pin  |             | ✓            |
| b         | Coupling Bolt & nut   | ✓           |              |
| c         | All Type of Coupling Set.   | ✓           |              |
| d         | Coupling key  |             | ✓            |
| e         | Coupling Spider, Bush   |             | ✓            |
| <b>13</b> | <b>Electricals &amp; C&amp;I</b>  |             |              |
| a         | All type of glass fuse, Control fuse various types up to 6A, Fuse puller, All type of AA & AAA battery, 3V, 9V battery cell, Battery terminal coating material, Distilled water, Molykote HSC plus Grease., Electrical contact cleaner, Bi-metallic lugs up to 50 Sqmm, Bimetallic Strips, Acrylic sheet 3 & 5 mm, Hylam Sheet 3 mm & 5 mm, |             | ✓            |
| b         | All type of LT end termination kit & straight Through Joint kits, Lugs for LT, Blow lamp for cable joint, Cable glands (SS & PVC up to 32mm), ferrule, Cable tie, All type of connector up to 50 sq.mm cable, Cable termination paste & cable clamps.   |             | ✓            |
| c         | All type of Panel indication lamp, Hand lamps (for Maintenance Activity only), Plugs with cable with ELCB (for Maintenance activity only), 24 DC Lights, Torch light, Flash Lights, Temporary Lights for maintenance Works.   |             | ✓            |
| d         | HVIC Coating for insulators, Earth Rods, Cables, Earthing Strips  |             | ✓            |

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| Sl. No.   | Type of Consumable   | Owner Scope | O&M Operator |
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| e         | HT Cable Jointing Kits & Heat shrinkable sleeves   |             | ✓            |
| f         | HRC, Semiconductor & HT fuses, ELCBion , DCMCB - upto 63A, Indication Lamp, Pendant switch               |             | ✓            |
| g         | Diaphragm and Seal Kit of Critical Pneumatic Valves and Actuators.                                       | ✓           |              |
| h         | Level #2 and 3 Repairing of Moog Valve   |             | ✓            |
| i         | Special Safety equipment & appliances  |             | ✓            |
| j         | Analyzers Electrodes and Reagents which are proprietary in nature.                                       | ✓           |              |
| k         | Hydraulic/Servo Valves seals and Maintenance Kit   |             | ✓            |
| l         | Printer Cartridge used for System PLC/DCS  |             | ✓            |
| m         | Special Patch Cords/Connectors/ Special Cable required for system.                                       | ✓           |              |
| n         | SS tubings and fittings used in the instruments  | ✓           |              |
| o         | Fiber Splicing for Junction Box, Convertors etc.   |             | ✓            |
| p         | Silica Gel   |             | ✓            |
| q         | Cable Ferrule tubes  |             | ✓            |
| r         | Cable Ferrule tube printing machine  |             | ✓            |
| s         | Insulating Varnish for HT-LT motors  |             | ✓            |
| t         | Transformer oil leakage arresting kit  |             | ✓            |
| u         | Foam Sealants  |             | ✓            |
| v         | Flexible cable upto 2.5 sqmm, 4 core   |             | ✓            |
| w         | 24V lamp fitting / fibre sheet/mica sheet/acrylic/PVC insulation/all types of lugs Al-Cu                 |             | ✓            |
| <b>14</b> | <b>Workshop</b>  |             |              |
| a         | All Cutting & grinding Tools, Blades, Drill & tool bits, Hand Tools & Power Tools                        |             | ✓            |
| b         | Workshop Raw material  | ✓           |              |
| <b>15</b> | <b>Refractory, Insulation Material, Cladding Sheets, CAT 9 High &amp; low Temperature binding agents</b> | ✓           |              |
| 16        | COLTCS Balls   | ✓           |              |
| 17        | Fusible plugs for fluid coupling   |             | ✓            |
| 18        | All type of V-Belts  |             | ✓            |
| 19        | Lubricants & grease  |             | ✓            |
| 20        | Transformer Oil  |             | ✓            |

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| <b>21</b> | <b>Fire &amp; Safety</b>   |             |              |
| a         | Chemicals required for all type of Portable Fire extinguisher, Safety - Safety Shoes, Hand gloves, Helmets, Ear Plug, Nose Mask, Safety Goggle, face shields, gum boots, special aprons and first aid kit, PPPs required for chemicals handling.                 |             | ✓            |
| b         | Arc Flash Protection suit for LT & HT, Fire Suit, Required safety appliances etc.  |             | ✓            |
| c         | Fire Proof Paint for cables, Foam tank chemicals etc.  | ✓           |              |
| <b>22</b> | <b>Stationery</b>  |             |              |
| a         | All stationery, Computer stationery, Tapes and diskette, Stationery equipment required to operate and maintain the plant excluding DCS/PLC, Don't operate Tags, LOTO lock with keys, Danger Sticker, Skull Cross Boards, Shift operation & maintenance log books |             | ✓            |
| b         | Computers & Accessories, Printer, Photo Copier, Scanner for O&M Personnel only   |             | ✓            |
| <b>23</b> | <b>Laboratory Glass Wares &amp; Chemicals</b>  |             |              |
| a         | All glass wares for analytical purpose required as replacement. All necessary lab equipment's consumables and lab chemicals.   |             | ✓            |
| 24        | Civil Items - House keeping Consumables, Toilet cleaning consumables, Floor Cleaning items, Self tapping screws, Door Mats   |             | ✓            |
| <b>25</b> | <b>Chemicals for Process</b>   |             | ✓            |
| 26        | Portable dewatering pump   |             | ✓            |