

PUNJAB STATE POWER CORPORATION LIMITED

Office of Chief Engineer, Guru Gobind Singh Super Thermal Plant, Rupnagar

INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR STANDARDIZATION OF FIRMS FOR THE FOLLOWING ITEMS .

EXPRESSION OF INTEREST:

EOI is invited from the interested Manufacturers of the following items to get themselves standardized for purchases against the requirement for three Thermal Power Stations -1260 (MW) (6x210 MW) Super Thermal Plant, GGSSTP, Ropar, 920 MW (2x210 MW Stage-I & 2x250 MW Stage-II GHTP Lehra Mohabat and 440 MW (4x110 MW) GNDTP, Bathinda :-

AS PER LIST ATTACHED

NOTE:

- i.- The specifications are guidelines for standardization only. Actual specifications shall be made available at the time of procurement.
- ii Firms should be regular supplier of the similar material to reputed organizations like NTPC, L&T, Major Thermal Power Plants.
- iii) Firms should be equipped with all in-house testing facilities as per relevant IS for carrying out the test & quality control of the material during and after the manufacturing process.
- iv.- The applicant firms should have minimum turn over of Rs. 1.0 Crore. Further in order to evaluate the firms, the following data shall be required to be furnished in support of their technical & financial capabilities giving Company Profile, Audited Balance sheet / profit & loss account for last 3 years , Financial Status, detail of works, POs executed, Performance Certificates, List of Testing Equipments, List of machinery installed for manufacturing of material , List of Clients / Customers, Production Capacity, ISO / ISI / BS Certification, In-house facilities to carry out tests as per IS / BS, previous dealing with PSEB (now PSPCL),if any, Product Catalogue and Quality Assurance Plan (QAP) etc.

WORK APPRAISAL:

The work appraisal of the short listed firms shall be carried out by PSPCL. The short listed firms outside Punjab shall have to deposit a sum of Rs 50, 000/- and Rs. 25, 000/- for the firms located inside the state for carrying out the work appraisal.

The recommendation of the work appraisal does not give any right to the firm to be on the standardized list of PSPCL. The decision of the competent authority of PSPCL in this regard shall be final and binding on the firm.

PROCEDURE FOR SUBMISSION OF EOI

Detailed EOI along with documents confirming compliance with technical and financial requirements may be submitted by 30/01/2014. Documents sent through e-mails will not be accepted.

ADDRESS FOR COMMUNICATION AND SUBMISSION OF EOI

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SPECIFICATIONS OF THE ITEMS

A) ELECTRICAL

Sr No.	Description of Material	
1	Panel mounting measuring instruments / testing instruments.	AC/ DC Ammeters, AC / DC Voltmeters, MW / MVR / PF / Frequency Meters of various sizes and ranges as per relevant National / International Standards.
2	Indicating Lamp, Assemblies / LED indicating Assembly / LED Module Pilot Lights / Pilot Lamp Holders	Indicating lamp / LED assemblies of various sizes and supply voltage, as per relevant National / International Standards.
3	Lighting Fixtures	Lighting Fixtures for Flood light fittings, HPMV lamps, CFL Fluorescent tubes, Halogen lamps etc. of various wattages & their chokes, fixtures & accessories, as per relevant National / International Standards.

4	Bulbs, Tubes (Luminations)	Flood light fittings, HPMV lamps, CFL Fluorescent tubes, Halogen lamps etc. of various wattages , as per relevant National / International Standards.
5	General Purpose Insulating tapes	General Purpose PVC type insulating tapes of various sizes, as per relevant National / International Standards.
6	Special Purpose Insulating Tapes	Black water proof cloth coated uniformly with adhesive on non water proof side, Ozone resistant, self amalgamating, Electrical insulation tape meant for HT applications, Self-fusing, Conformable Silicone rubber Tape With Anti-tracking properties for HT application, Black fire retardant cloth tape with fire retardant adhesive, Aluminum foil laminated to glass & cloth and cloth side coated with adhesive , & Self fusing rubber based HT Tape water resistant and halogen suitable for cable jointing and terminations of various lengths & breadth, as per relevant National / International Standards.
7	Insulating paper / films	3 Mil Transparent Polyester film coated uniformly with colored rubber adhesive, Transparent Polyester film coated uniformly with colored rubber adhesive, BDV Paper (Nomex BDV paper Gartherm or Eurotherm make or equivalent, suitable for 1100V, & Polyster Paper Milky white (industrial grade) polyster paper Garware make or equivalent suitable for 1100V, as per relevant National / International Standards.

8	Super Enameled Wires	<p>1. Super Enamelled Copper Wire of class 130L, grade-2 with coating of modified polyster enameled of polyster resin which may be modified , provided , it retains the chemical identity of the original resin and meets with all specified wire requirement.</p> <p>2. Class 130 L should be thermal class that requires a minimum temperature index of 130 and heat shock temperature of atleast 155°C</p> <p>as per relevant National / International Standards.</p>
9	Insulating Varnish	<p>1. Varnish ER-65 (Dr. Beck make) or equivalent , class-F, 1.1KV.</p> <p>2. Varnish Elmo luft-1A-FD (Dr. Beck make) or equivalent , class-F, 1.1KV. , as per relevant National / International Standards.</p>
10	Bakelite / Fibre Products	<p>Paper Phenolic Sheets for Power Electronic Transformers and Choke Bobbins, Relay Spacers, HV Transformers, Tap Changers, Grid Covers, Selector Bank Insulation , as per relevant National / International Standards.</p>
11	HRC Fuses	<p>HRC Fuses of various types & sizes, Semiconductor HRC Fuses of various types & sizes , HT HRC fuses of various sizes, as per relevant National / International Standards.</p>

12	Cable Jointing Kits	Heat Shrinkable Straight Through Jointing Kits & End Terminal Kits (Indoor / Outdoor) for HT / LT cables up to 11 KV of Various Sizes , as per relevant National / International Standards.
13	Thimbles & Crimping Tools	Thimbles of copper / aluminum of various types & sizes, Inline Connectors of copper / aluminum of various sizes, Reducers of Copper / aluminum of various sizes & Crimping Tools (manual & hydraulic) suitable for cable sizes up to 1000 mm ² , as per relevant National / International Standards.
14	Carbon Brushes	Carbon Brushes for Generating Slip rings, Generator Shafts earthing for 250 MW, 210 MW, 120 MW , 110 MW generators , as per relevant National / International Standards.
15	Limit Switches	Heavy Duty Limit Switches, Oil Tight limit Switches for advance / Retract mechanism of HEA assembly, Heavy Duty Electrical Limit Switches snap action angular roller lever type of various types & sizes suitable for different voltages , as per relevant National / International Standards.

16	Rubberized Cork Sheet Gaskets for Power Transformers and other Applications	Rubberized Cork Sheet Gaskets for Power Transformers and other Applications , as per relevant National / International Standards.
17	Meggars 2.5-5 KV	Diagnostic Insulation Tester of various ranges (250 V – 5000 V DC) , as per relevant National / International Standards.
18	DC batteries for Generating Stations & 220 KV Sub-Stations.	2 V Industrial grade stationary lead Acid storage Tubular type HDP II cells of 10 hr discharge rating of different sizes (AH Hours) at 27°C, dry Un charged conforming to relevant National / International Standards, 1.2V, Dry, uncharged, Stationary, Nickel-Cadmium Fiber Plate Battery Cells for DG Set / Diesel Engine starting purpose, complete with all standard accessories, electrolyte and battery stands of MS, coated with suitable protective paint conforming to relevant National / International Standards
19	Insulation Tester	Insulation Tester (10 KV) Digital-cum analogue, as per relevant National / International Standards.
20	Terminal Blocks	Terminal strips & Terminal blocks of different sizes & ratings.

21	HRC fuse base / carrier or HRC fuse fittings	Fuse Base Carriers and Fuse Link Trip Indicators of different sizes & ratings, as per relevant National / International Standards.
22	Battery Chargers up to 2000AH	220V, 350A / 200A Float & Boost Chargers, as per relevant National / International Standards.

B) MECHANICAL

Sr No.	Description of Material
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1	Welding Electrodes	General Purpose Welding Electrodes , High Pressure Welding Electrodes, Low Heat Welding Electrodes, Hard Facing Electrodes, Cast Iron Welding Electrodes & other Misc. Applications such as Electrodes for Buffer relay for Alloys, Hard Facing Electrodes for Coal Nozzle Pipes and in CHP for internal lining of chutes & flaps before secondary crusher, Electrodes for General Assembly shafts of XRP-803 Mills, as per relevant National / International Standards.
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2 Welding Cables & Welding Accessories

a)	Copper welding cable with normal duty elastomeric compound covering conductor cross section area 50 mm² (400 AMP) in standard 100 mtr. length as per IS 9857/90.
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b)	Welding Holder 600A with fully insulated head, sturdy handle, made of fiber glass poly amide of L&T or ADOR or ESAB makes
c)	Hand gloves made of hardwearing heat resistance leather 1.3 mm thick.
d)	Clear Welding Glass Size 4 1/4" x 3 1/4" (white)
e)	Black Welding Glass Size 4 1/4" x 3 1/4" for welding screen with DIN 11
f)	Hand screen flat fronted flame retardant with concealed handle made from glass filed nylon of thickness 1.8 mm as per IS – 1179/2008

g)	Head screen for full facial protection, light weight, poly propylene shall as per IS – 1179/2008
h)	Gas cutting hose pipe size 8 mm normal bore (Black) for working pressure 12.5 Kg/Cm², with minimum bursting pressure 50 Kg/Cm², minimum outside diameter 15.5 mm , in standard length of 15 mtr., as per IS : 447/1988
i)	Gas gutting hose pipe size 8 mm normal bore (Red) for working pressure 12.5 Kg/Cm², with minimum bursting pressure 50 Kg/Cm², minimum outside diameter 15.5 mm , in standard length of 15 mtr., as per IS : 447/1988
j)	Oxygen Regulator Single Stg. fitted with double pressure Gauges with rated inlet pressure (max.) 300 bar outlet pressure 20 bar, class 5 as IS : 6901/2009.
k)	DA Regulator Single Stg. fitted with double pressure Gauges with rated inlet pressure (max.) 25 bar outlet pressure 1.5 bar, class 2 as IS : 6901/2009

l)	Gas cutting Torch Cutogen-5 with body and head of forged brass with cutting capacity 300 mm thick MS as per IS: 7653/1975
m)	Aluminum Welding Cable with normal duty elastomeric compound covering conductor cross section 70 mm ² (400 Amp) in standard 100 mtr. length as per IS 9857/90
n)	Cutting Nozzle 3/64" one piece with hard drawn tellurium copper with swaged interior for as cutting torch Cutogen-5
o)	Cutting Nozzle 4/64" -do-
p)	Cutting Nozzle 5/64" -do-
q)	Cutting Nozzle 1/32" -do-
r)	Cutting Nozzle 1/16" -do-
s)	Cylinder Key drop forged
t)	Safety Goggles covering eyes completely with Lens provide protection against dangerous UV radiations of flexible & break resistant material.
u)	Safety Chest Guard made of pure, flexible & soft heat resistant leather.
v)	Safety Leg Guard made of pure, flexible & soft heat resistant leather.
w)	Welding Goggles, one piece, cover eye completely with clear lens for gas welding and cutting with ventilators of flexible & break resistant material.

x)	Gas cutting hose pipe size 6.3 mm normal bore (Black) for working pressure 12.5 Kg/Cm ² , with minimum bursting pressure 50 Kg/Cm ² , minimum outside diameter 14 mm , in standard length of 15 mtr., as per IS : 447/1988
y)	Gas cutting hose pipe size 66.3 mm normal bore (Red) for working pressure 12.5 Kg/Cm ² , with minimum bursting pressure 50 Kg/Cm ² , minimum outside diameter 14 mm , in standard length of 15 mtr., as per IS : 447/1988
z)	Flash back arrester (cylinder end) with non-return valve, temperature and pressure sensitive cut of valve of L&T or ADOR or ESAB make.

3	Electric Tools	Portable Drill Machine, Straight Grinder, High Torque Sander Grinder , Air Blowers & Hot Air Blower of various sizes, as per relevant National / International Standards.
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4	Nuts & Bolts	HT Nut Bolts of various sizes and grades up to 12.9 grade confirming to relevant IS
5	Ratchet Hoist & Chain Hoist	<p>1) Triple spur geared type Chain Pulley Blocks of different capacities & lifts. and</p> <p>2) Triffer of different capacities (as per IS Specifications)</p>
6	Steel wire ropes & Slings	<p>i) Steel Wire Rope : Steel /Steel Core 12/6/1 &</p> <p>ii) Sling : Steel wire rope sling (Ungalvanized) of different sizes & as per relevant IS.</p>

7	Valves	<p>a) Valves (manual and motor operated) of all sizes and various types like Gate/ Globe / Needle / Check / Sluice / Ball having material such as alloy / CS / Stainless steel of various ratings.</p> <p>b) Pneumatic operated valves of all sizes having material such as alloy / CS/ Stainless steel of various ratings and leakage classes.</p> <p>c) Valves of all sizes and various types like Gate / Globe / Needle / Check / Sluice / Ball having material Brass / Gun metal, Cast Iron and MS etc. of various ratings.</p> <p>d) Butterfly valves of all sizes having material CI / CS / MS etc. of various ratings.</p> <p>e) Diaphragm valves of all sizes having material CI / CS / MS etc. of various ratings.</p> <p style="text-align: center;">as per relevant National / International Standards.</p>
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8	Thermocouple	Thermocouples of various ranges for sensing temperature (0 to 1000°C), as per relevant National / International Standards.
9	Microprocessor Based Chartless Recorders	Chartless recorders of different channel of output, as per relevant National / International Standards.
10	Packing Materials	<p>a) Packing Materials including asbestos cloth</p> <p>b) Neoprene sheets / asbestos gland packings.</p> <p>c) Asbestos cloth /Neoprene sheets for Turbine Oil Applications Compressed Asbestos Jointing Sheets</p> <p>d) Asbestos / Non-asbestos jointing sheets & Spiral wound gaskets.</p> <p>as per relevant National / International Standards.</p>

11	Stainless Steel Shim Packings	Cold rolled non-compressible SS-301 shims of uniform thickness throughout of various sizes , as per relevant National / International Standards.
12	Bearings	Ball Bearings, Cylindrical Roller Bearing, Taper Roller Bearings, Spherical Roller Bearing, Needle Bearings, as per relevant National / International Standards.
13	Split Oil Seals & Oil seal ring for HP-803 and XRP-803 Coal Mills etc. (Viton & Oil seal ring)	Various types of seals of Viton rubber with stainless steel spring for application of Bowl Mills, as per relevant National / International Standards.
14	Drive & Non-Drive Pulleys	Drive & Non Drive Pulleys (i.e. Head, Tail Snub, Head Snub, Bend Gravity etc.) of different sizes for conveyor belting system for upto 1500 mm wide Conveyor Belts, as per relevant National / International Standards.