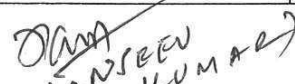


CPCL RLNG Fuel Conversion Project: Proposed Vendors List for BHEL PESD

Sl. No.	MIPP Item Description	CPCL Vendors List No.	BHEL PESD PMD No.	List of Vendors as per CVL	List of Vendors as per PESD PMD	Remarks
Process Group						
1	Control Valves	Sl. No. 5, Page No. 2	PE.IN.515	Dresser Valve (I) Pvt. Ltd. India Tyco Valves & Controls (I) Pvt. Ltd. India Fisher India Flowserve Pte. Ltd. Metso Automation Pte. Ltd.		Vendors as per Contractual Vendors List only to be followed.
2	Pneumatic On-Off Valves	Sl. No. 6, Page No. 3	PE.MP.602	Metso Automation India Pent Air, India Flowserve India Dresser Valve (I) Pvt. Ltd. India		Vendors as per Contractual Vendors List only to be followed.
Piping & Layout						
3	CS (SMLS) <= 4"	Not Available	PE.MP.534		ISMT LIMITED., MOKSHI INDUSTRIES PVT. LTD. LAL BABA SEAMLESS TUBES PVT. LTD. HEAVY METAL & TUBES LIMITED, JINDAL SAW LIMITED, MAHARASHTRA SEAMLESS LTD., EVERGREEN SEAMLESS PIPES & TUBES	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
4	CS (SMLS) 5" & 6"	Not Available	PE.MP.541		TUBOS REUNIDOS,S.A., MOKSHI INDUSTRIES PVT. LTD. ISMT LIMITED., JINDAL SAW LIMITED, MAHARASHTRA SEAMLESS LTD., EVERGREEN SEAMLESS PIPES & TUBES HEAVY METAL AND TUBES (INDIA)	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
5	CS (SMLS) 8" & 10"	Not Available	PE.MP.542		PRODUCTOS TUBULARES S.A., MOKSHI INDUSTRIES PVT. LTD. ISMT LIMITED., JINDAL SAW LIMITED, MAHARASHTRA SEAMLESS LTD., EVERGREEN SEAMLESS PIPES & TUBES	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
6	CS (SMLS) 12" & 14"	Not Available	PE.MP.543		PRODUCTOS TUBULARES S.A., MOKSHI INDUSTRIES PVT. LTD. MAHARASHTRA SEAMLESS LTD., EVERGREEN SEAMLESS PIPES & TUBES	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
7	CS (SMLS) > 14"	Not Available	PE.MP.544		PRODUCTOS TUBULARES S.A., MOKSHI INDUSTRIES PVT. LTD. EVERGREEN SEAMLESS PIPES & TUBES	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
8	SS (SMLS) <=6"	Not Available	PE.MP.536		IGAWARA INDL SERVICE & TRADING SANDVIK ASIA PRIVATE LIMITED HEAVY METAL AND TUBES (INDIA) SURAL LIMITED MAXIM TUBES COMPANY PVT. LTD. RATNAMANI METALS & TUBES LTD.,	Vendors selected by CPCL as per vendors listed in Jacobs' DCU Project approved vendors list.
9	Non-IBR Pipe Fittings (Butt Welded)	Not Available	PE.MP.511		TUBE TURN (INDIA) P. LTD. P.K. TUBES & FITTINGS PVT. LTD. DEE DEVELOPMENT ENGINEERS LTD., GUJARAT INFRAPIPES PVT.LTD., U I PIPE FITTINGS PVT. LTD.	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
10	Valves - CS/SS/AS Gate, Globe, Check Valves (CL150, CL300, CL800)	Not Available	PE.MP.501		LEADER VALVES LIMITED STEEL STRONG VALVES (I) PVT. LTD. SHALIMAR VALVES PVT. LTD. NITON VALVE INDUSTRIES LTD NSSL LIMITED OSWAL INDUSTRIES LTD. L & T VALVES LIMITED FOURESS ENGINEERING (I)PVT.LTD	Vendors selected by CPCL as per vendors listed in Jacobs' DCU Project approved vendors list.
11	Valves - CS/SS/AS Gate, Globe, Check Valves (CL600)	Not Available	PE.MP.502		LEADER VALVES LIMITED STEEL STRONG VALVES (I) PVT. LTD. SHALIMAR VALVES PVT. LTD. NITON VALVE INDUSTRIES LTD NSSL LIMITED OSWAL INDUSTRIES LTD. L & T VALVES LIMITED FOURESS ENGINEERING (I)PVT.LTD	Vendors selected by CPCL as per vendors listed in Jacobs' DCU Project approved vendors list.
12	Ball Valves	Not Available	PE.MP.060		UNIFLOW ASIAN INDUSTRIAL VALVES AND LEADER VALVES LIMITED SHALIMAR VALVES PVT. LTD. L & T VALVES LIMITED FLOW CHEM INDUSTRIES, MICRO FINISH VALVES PVT.LTD., WEIR BDK VALVES	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
13	Non-IBR Flange Package	Not Available	PE.MP.042		KUNJ FORGINGS PVT. LTD. C.D.ENGINEERING CO. CHW FORGE PRIVATE LIMITED C.D. INDUSTRIES, METAL FORGINGS P. LTD. PRESHZINGER ENGINEERING CSA Fittings	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.


 (ANJAN KUMAR)
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CPCL RLNG Fuel Conversion Project: Proposed Vendors List for BHEL PESD						
Sl. No.	MIPP Item Description	CPCL Vendors List No.	BHEL PESD PMD No.	List of Vendors as per CVL	List of Vendors as per PESD PMD	Remarks
14	Non-IBR CS Pipe Fittings Package (Forged)	Sl. No. 62, Page 18 of 29 of Piping of RUP	PE.MP.603		EBY Industries	Vendors selected by CPCL as per vendors listed in Jacobs' DCU Project approved vendors list.
					Leader Valves Ltd	
					M.S. FITTINGS MANUFACTURING CO. PVT R N Gupta & Co. Ltd	
15	Non-IBR AS Pipe Fittings Package (Forged)	Sl. No. 63, Page 18 of 29 of Piping of RUP	PE.MP.603		CSA Fittings	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
					EBY Industries	
					M.S. FITTINGS MANUFACTURING CO. PVT	
16	Non-IBR SS Pipe Fittings Package (Forged)	Sl. No. 64, Page 18 of 29 of Piping of RUP	PE.MP.603		CSA Fittings	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
					EBY Industries	
					M.S. FITTINGS MANUFACTURING CO. PVT	
17	Non-IBR Gaskets Package (Spiral Wound Metallic)	Not Available	PE.MP.041		GOODRICH GASKET PVT. LTD.	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
					MADRAS INDUSTRIAL PRODUCTS, I G P ENGINEERS LIMITED,	
					UNI KLINGER LTD.	
					UNIQUE INDUSTRIAL PACKINGS PVT. LTD	
					JAMES WALKER INMARCO INDS PVT LTD	
					STARFLEX SEALING INDIA PVT. LTD.	
					JYOTHI INDUSTRIES,	
18	Non-IBR Bolting Material Package	Not Available	PE.MP.512		SREE PAVITHRA INDUSTRIES,	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
					PIONEER NUTS AND BOLTS PVT.LTD	
					MEGA ENGINEERING PVT. LTD.	
					PRESIDENT ENGINEERING WORKS	
					BOLTMASTER (INDIA)PVT.LTD.	
19	Strainers	Not Available	PE.MP.059		ATLAS FASTENERS	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
					UNI KLINGER LTD.	
					PENNANT ENGINEERING PVT LTD.,	
					MICON VALVES (I) PVT. LTD.	
					GESTRA AG	
	ESCO,					

		RUP		Winimax GMBH	
25	Water Based Fire Fighting System - Spray Nozzles	Sl. No. 32, Page 8 of 13 of Mechanical Equipment of RUP	PE.MP.566	Akron Brass Company, USA	Vendors selected by CPCL as per vendors listed in Jacobs' DCU Project approved vendors list.
				Delavan Ltd., UK	
				Elkhart Brass Manufacturing Inc., USA	
				Firetech Equipments & Systems Pvt Ltd	
				Flow Control Technologies, France	
				Hamworthy Combustion Engineering Ltd, UK	
				HD Fire Protect Pvt Ltd	
				John Zink International Luxembourg SARL	
				Lechler India Pvt Ltd	
				Lechler GMBH & Co. KG	
				Siddharth Enterprises	
				Spraying Systems Co., USA	
26	Gas Detectors for GCS Area	Sl. No. 22, Page No. 6	PE.MP.061	MSA	Vendors as per Contractual Vendors List only to be followed.
				Drager Safety AG, Germany	
				Honeywell	
				Rosemount Analytical Inc, USA	
27	Water Based Fire Fighting System	Not Available	PE.MP.524	DE S TECHNICO PRIVATE LIMITED	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project. Package vendor to send enquiries for various items a per vendors listed in CVL.
				SAMAY PROJECT SERVICES PVT. LTD.	
				AGNICE FIRE PROTECTION PVT. LTD.	
				STERLING AND WILSON PVT LTD	
				NEW FIRE ENGRS. PVT. LTD.	
				THERMOSYSTEMS PRIVATE LIMITED.	

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CPCL RLNG Fuel Conversion Project: Proposed Vendors List for BHEL PESD						
Sl. No.	MIPP Item Description	CPCL Vendors List No.	BHEL PESD PMD No.	List of Vendors as per CVL	List of Vendors as per PESD PMD	Remarks
Electrical Items						
28	LT Power Cables	Not Available	PE.EP.033		RAVIN CABLES LTD POLYCAB WIRES PVT.LTD KEI INDUSTRIES LIMITED TORRENT POWER LIMITED (CABLE UNIT) KEC INTERNATIONAL LIMITED UNIVERSAL CABLES LTD	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
29	Control Cables	Sl. No. 45, Page No. 11	PE.EP.034		ASSOCIATED CABLES PVT LTD KEI INDUSTRIES LIMITED POLYCAB WIRES PVT.LTD UNIVERSAL CABLES LTD KEC INTERNATIONAL LIMITED RAVIN CABLES LTD	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
30	GI Cable Trays and Accessories	Sl. No. 36, Page No. 9	PE.EP.036		INDIA ELECTRICALS SYNDICATE PREMIER POWER PRODUCTS VINFAB ENGINEERS INDIA PRIVATE PATNY SYSTEMS PVT. LTD	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
31	Plant Earthing Material	Not Available	PE.EP.027		INDIA ELECTRICALS SYNDICATE PREMIER POWER PRODUCTS VINFAB ENGINEERS INDIA PRIVATE PATNY SYSTEMS PVT. LTD	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
32	Insulating Mat	Not Available	PE.EP.025		INDIAN RUBBER PRODUCTS RMG POLYVINYL INDIA LTD PROGRESSIVE RUBBER WORKS	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
33	Cable Lugs	Not Available	PE.EP.010		ELECTROMAC INDUSTRIES AUTOMIC ELECTRIC &	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
34	Cable Glands	Not Available	PE.EP.038		FCG FLAMEPROOF CONTROL GEARS FLAMEPROOF EQUIPMENTS PVT.LTD. FCG POWER INDUSTRIES FLEXPRO ELECTRICALS PVT. LTD.,	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project.
35	Structural Steel	Not Available	TRICHY RC			


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 उप महाप्रबंधक (अनुरक्षण - विश्वसनीयता)
 Deputy General Manager (Maint. - Reliability)
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CPCL RLNG Fuel Conversion Project: Proposed Vendors List for BHEL PESD

Sl. No.	MIPP Item Description	CPCL Vendors List No.	BHEL PESD PMD No.	List of Vendors as per CVL	List of Vendors as per PESD PMD	Remarks
C&I Items						
36	Instrumentation Cables	Sl. No. 45, Page No. 11	PE.EP.043	Cords Cable Industries India KEI Industries Ltd. India Polycab Wires Pvt. Ltd. Associated Flexibles & Wires (P) Ltd. India Brooks Cable Works Universal Cables Ltd. India		Vendors as per Contractual Vendors List only to be followed.
37	Field Instruments Package	Sl. No. 2, Page No. 2	PE.IN.585	Emerson Process Management India Pvt. Ltd. Honeywell Automation India Ltd. Yokogawa India Ltd. (Eja Series)		Vendors as per Contractual Vendors List only to be followed.
38	DCS & PLC Package	Sl. No. 1, Page No. 1	PE.IN.001	HONEYWELL AUTOMATION INDIA LIMITED		Vendors as per Contractual Vendors List only to be followed.
39	Mass Flow Meter	Sl. No. 15, Page No. 5	PE.IN.005	Emerson Process MGMT India Pvt. Ltd. India Endress + Hauser (I) Pvt. Ltd. India Krohne Marshall / Forbes Marshall India		Vendors as per Contractual Vendors List only to be followed.
40	Ultrasonic Flare Flow Meter	Sl. No. 3, Page No. 2	PE.IN.584	Daniel Measurement & Control (I) Pvt. Ltd. Krohne Messtechnik GmbH & Co. Kg GE Sensing, USA Emerson Process Management Endress + Hauser Intl. AG., Germany (C/o Endress + Hauser (I) Pvt. Ltd.) FMC Measurement Solution UK/Singapore RMG Regel + Messtechnik GmbH Sick Mahak GmbH Siemens AG (C/o Siemens Ltd.) Thermo Fisher Scientific (C/o Thermo Fisher Scientific process Instru. Div.)		Vendors as per Contractual Vendors List only to be followed.
41	Instrument Hook-up Package	Not Available	PE.IN.580		DYNAFLUID VALVES AND FLOW CONTROLS P.K. TUBES & FITTINGS PVT. LTD. U I PIPE FITTINGS PVT. LTD. PRESZINGER ENGINEERING UNIQUE ENGINEERING ENTPS. PVT. LTD.	Vendors selected by CPCL as per vendors approved for CPCL Resid Upgradation Project. Package vendors to send enquiries for various items as per vendors listed in CVL.
42	Pressure Gauge	Sl. No. 40, Page No. 10	PE.IN.552	AN Instruments Pvt. Ltd. India Forbes Marshall Pvt. Ltd. India Goa Instruments Budenberg Guage Co. Ltd. General Instruments Consortium India Manometer (I) Pvt. Ltd. India Precision Industries India Thermal Instruments India Waaree Instruments Ltd. India Wika Instruments (I) Pvt. Ltd.		Vendors as per Contractual Vendors List only to be followed.
43	Differential Pressure Gauge	Sl. No. 37, Page No. 9	PE.IN.520	AN Instruments Pvt. Ltd. Samson controls Pvt. Ltd. Switzer Instrument Ltd. General Instruments Consortium Waaree Instruments Ltd. Wika Instruments (I) Pvt. Ltd.		Vendors as per Contractual Vendors List only to be followed.
44	Temperature Gauge	Sl. No. 41, Page No. 10	PE.IN.574	AN Instruments Pvt. Ltd. India Goa Instruments H Guru Instruments Pvt. Ltd. India Badotherm Process Instruments B.V. General Instruments Consortium India Pyro Electric Instruments Goa Pvt. Ltd. India Thermal Instruments Wika Instruments (I) Pvt. Ltd. India		Vendors as per Contractual Vendors List only to be followed.
45	Level Gauge	Sl. No. 42, Page No. 10	PE.IN.542	Bliss Anand Pvt. Ltd. India Chemtrols Engineering Ltd Leycon Instruments Pvt. Ltd. India Pratolina Instruments Pvt. Ltd. India Technomatic India Pvt. Ltd. India Klinger Fluid Control Sigma Instruments co. India		Vendors as per Contractual Vendors List only to be followed.
46	Level Gauges (Magnetic Type)	Sl. No. 19, Page No. 6	PE.IN.540	Klinger Fluid Corporation GmbH Germany Magnetrol International bv Belgium Krohne Messtechnik GmbH Germany K Tek Corporation USA Ksr Kuebler Niveaumess Technik AG Germany Nihon klingage Comltd Japan Phoenix Systemelemente Messtechnik Germany		Vendors as per Contractual Vendors List only to be followed.
47	Junction Boxes (Weather Proof)	Not Available	PE.IN.537	Flameproof Equipments Pvt. Ltd. India FCG Power Industries Pvt. Ltd. Flexpro Electricals Pvt. Ltd. India Baliga Lighting Equipments (P) Ltd. India		Vendors as per Contractual Vendors List only to be followed.
48	Junction Boxes (Explosion Proof)	Sl. No. 46, Page No. 12	PE.IN.538	Flameproof Equipments Pvt. Ltd. India FCG Power Industries Pvt. Ltd. Flexpro Electricals Pvt. Ltd. India		Vendors as per Contractual Vendors List only to be followed.

CPCL RLNG Fuel Conversion Project: Proposed Vendors List for BHEL PESD

Sl. No.	MIPP Item Description	CPCL Vendors List No.	BHEL PESD PMD No.	List of Vendors as per CVL	List of Vendors as per PESD PMD	Remarks
				Baliga Lighting Equipments (P) Ltd. India		
49	RTD & Thermocouples with Thermowells	Sl. No. 43, Page No. 11	PE.IN.561	Detrev Instrumentation & Electronics Ltd. India Goa Instruments PYRO Electric Instruments Goa Pvt. Ltd. India Thermal Instruments Gayesco LLC General Instruments Consortium India Japan Thermowell Co. Ltd. (c/o M/s ESCO Japan Ltd. Thermo Electric Co. Inc. Thermo-couple Products Co.		Vendors as per Contractual Vendors List only to be followed.
50	Thermowells	Sl. No. 43, Page No. 11	PE.IN.577	Goa Instruments PYRO Electric Instruments Goa Pvt. Ltd. India Thermal Instruments Detrev Instrumentation & Electronics Ltd. India Gayesco LLC General Instruments Consortium India Japan Thermowell Co. Ltd. (c/o M/s ESCO Japan Ltd. Thermo Electric Co. Inc. Thermo-couple Products Co.		Vendors as per Contractual Vendors List only to be followed.
51	Pressure & Differential Pressure Transmitters (Electronic - Smart)	Sl. No. 2, Page No. 2	PE.IN.555	Emerson Process Management India Pvt. Ltd. (3051 series) India Honeywell Automation India Ltd. India Yokogawa India Ltd. (Eja Series)		Vendors as per Contractual Vendors List only to be followed.
52	Temperature Transmitter	Sl. No. 2, Page No. 2	PE.IN.579	Emerson Process Management India Pvt. Ltd. (3051 series) India Honeywell Automation India Ltd. India Yokogawa India Ltd. (Eja Series)		Vendors as per Contractual Vendors List only to be followed.
53	Level Transmitters (Guided Wave Radar Type)	Sl. No. 4, Page No. 2	PE.IN.010	1) Endress + Hauser GmbH & Co. (C/o E+H India) India/Germany 2) Emerson Process India 3) Honeywell India		Vendors as per Contractual Vendors List only to be followed.
54	Level Transmitter (Radar, Non-Contact Type)	Sl. No. 4, Page No. 2	PE.IN.586	Endress + Hauser GmbH & Co. (C/o Endress + Hauser India) India / Germany Enraf B.V. Netherlands SAAB Marine Sweden		Vendors as per Contractual Vendors List only to be followed.

ENABLING WORKS TO BE CARRIED OUT BY M/s CPCL IN GCS AREA

BGGTS, BHEL along with CPCL had a combined site visit on 19.07.18 and following points were noted:

S. No.	Description	Action on
	GCS AREA FOR GT-4,5:	
1	Fire water Hydrant line on the East side of Existing Liquid fuel skid to be re-located to east side of existing drain trench. CPCL shall inform final location to be incorporated in the drawing.	CPCL
2	Around 20m length of RCC box wall shall be constructed for drain and removable type cover slab to be provided for operator movement around the GCS skid area.	CPCL
3	Electrical lighting post on the South-East side of the Existing Liquid fuel skid to be relocated.	CPCL
4	BHEL/BGGTS Informed that 4.6mt x 2.2 mts of space is required for placement of Deluge valve shed. The space is identified. The same will be incorporated in the revised layout.	BHEL
5	BHEL/BGGTS informed CPCL that 2 nos of 6" tap off along with the isolation valve are required for the connection to the spray water system for Deluge valves. CPCL to consider this point while finalising the Fire Hydrant Line Modification.	CPCL
6	Monorail to be provided for HSD, Naphtha existing drain pit in case shed is envisaged.	CPCL
7	Requirement of Shed in GCS area: BHEL/BGGTS informed CPCL that the skids supplied are suitable for outdoor installation. However, if shed is required in GCS area 4,5 CPCL to explore the possibility of extending/modifying the existing shed provided for Naphtha and HSD drain tanks. BHEL/ BGGTS informed that the height of shed shall be 6.5 mts as the skid height will be of 4.5 mts.	CPCL
8	Relocation of Magnetic Filter and connected piping : Magnetic filter shall be relocated as indicated in the layout along with connected 2", 4" inlet and outlet piping so as to locate the scrubber skid. The required arrangement shall be as per the GCS area layout.	CPCL
10	Requirement of Drain valve pit at the North east side of GCS to be checked.	CPCL
11	Control room layout to be furnished	CPCL
12	HWS GA to be furnished	CPCL
13	Drive control philosophy for drain pump	CPCL
	GCS AREA FOR GT-1,2,3:	
14	Fire water Hydrant line on the East side of Existing Liquid fuel skid to be re-located to approx 1 to 2 mts to east side. CPCL shall inform final location to be incorporated in the drawing.	CPCL
15	Approximate 1.5 mts X 13 mts existing drain trench on the north side of GCS area to be covered with removable type slab to enable operator movement.	CPCL
16	Control room layout to be furnished	CPCL
17	Hardwire console system GA to be furnished	CPCL
18	Drive control philosophy for drain pump	CPCL


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