

ANNEXURE-21

**PMS FOR PUMP SUCTION AND
DISCHARGE LINE, BLO LINE, ARC LINE
AND COOLING WATER LINES**

Client : CPCL	Dept./Sect. : 16/43
Project : RESID UPGRADATION	Rev. 1 dt. 28/04/2010
Location : CHENNAI	Pipe Class : A3A Sheet 1 of 8

PIPE CLASS : **A3A**
 RATING : 150
 BASE MATERIAL : CARBON STEEL
 CORROSION ALLOWANCE : 1.3 MM
 SPECIAL REQUIREMENT :

TEMPERATURE (Deg. C) AND PRESSURE (Kg/Sq. cm g) RATINGS

TEMP	0	38	50	65	100	150	186
PRESS	10.55	10.55	10.55	10.55	10.55	10.55	10.55

SERVICE

NON CORROSIVE UTILITIES (ABOVE GROUND) CATEGORY "D" FLUID - COOLING WATER, PLANT AIR, INERT GAS, CARBON DIOXIDE (DRY), NITROGEN, CONDENSATE & BOILER FEED SUCTION (NON JBR), BEARING COOLING WATER (U/G, UPTO 8"). THIS CLASS DOES NOT COVER FIRE WATER SERVICE. FOR SIZES ABOVE 30", TEMPERATURE AND PRESSURE RATINGS SHALL BE 70 DEG.C & 6.6 KG/CM2G RESPECTIVELY.

NOTES

- 6 FOR FABRICATED REDUCERS, REFER EIL STD 7-44-0485 & 7-44-0487. FOR MITRES, REFER EIL STD 7-44-0033.
- 10 USE 4-PIECE 90 DEG. MITRE FOR 8" & 10", 5-PIECE 90 DEG. MITRE FOR SIZES FROM 12" TO 54" AND 6-PIECE 90 DEG. MITRE FOR SIZES 56" TO 80" (45 DEG. MITRE SHALL REQUIRE ONE PIECE LESS).
- 31 USE BUTTERFLY VALVES INSTEAD OF GATE VALVES FROM 10" ONWARDS IN WATER SERVICE AND UPTO 70 DEG.C. DESIGN PRESSURE FOR BUTTERFLY VALVES IS LIMITED UPTO 10 BAR.
64. AWWA C207 CL.D FLANGES SHALL BE OF HUB TYPE.
- 65 FORGINGS ARE ACCEPTABLE IN LIEU OF PLATE MATERIAL FOR BLIND FLANGES AND SPACER & BLINDS.
- 76 FOR PERMANENT BW STRAINERS, REFER EIL STD 7-44-0303 & 7-44-0304; AND FOR TEMPORARY STRAINERS, REFER EIL STD 7-44-0300.
- 77 FOR SIZES > 24", SPACER & BLIND SHALL BE DESIGNED BY THE MANUFACTURER AS PER ASME B31.3.
- 78 FOR SIZES ABOVE 30", TEMPERATURE AND PRESSURE RATINGS SHALL BE 70 DEG.C & 6.6 KG/CM2G RESPECTIVELY.
86. BUTTERFLY VALVES FOR THE SPEC ARE PN10 RATED WITH A MAXIMUM PRESSURE OF 10.2 KG/CM2G.
102. NDT REQUIREMENTS AS PER JOB SPECIFICATION.
- 117 1/4" NB SIZE SHALL BE USED FOR SAMPLE CONNECTIONS. CORROSION ALLOWANCE HAS BEEN ADJUSTED TO OPTIMIZE PIPE THICKNESS.
- 122 ASBESTOS FREE GASKETS AND STEM PACKING SHALL BE USED FOR ALL VALVES.

Client : CPCL	Dept./Sect. : 16/43
Project : RESID UPGRADATION	Rev. 1 dt. 28/04/2010
Location : CHENNAI	Pipe Class : A3A Sheet 2 of 8

SPECIAL NOTES

ITEM	SIZE	DESCRIPTION	A.CODE
MAINTAINENCE JOINTS	ALL	FLANGED. TO BE KEPT MINIMUM	
PIPE JOINTS	1.5" & BELOW	SW COUPLING 3000 LBS.	
	2.0" & ABOVE	DUTTWELED	
DRAINS	ON LINES \leq 1.5"	REFER EIL STD 7-44-350, DF3	
	ON LINES $>$ 2.0"	0.75" OR AS PER P&ID. REFER EIL STD. 7-44-351, D4	
VENTS	ON LINES \leq 1.5"	REFER EIL STD. 7-44-350, VC1	
	ON LINES $>$ 2.0"	0.75" OR AS PER P&ID. REFER EIL STD 7-44-351, V1	
TEMP.CONN	1.5"	FLANGED. REFER EIL STD 7-44-353	
PRESS.CONN	0.75"	SW, SH HVY NIPPLE WITH GATE VALVE TO SPEC AS PER EIL STD 7-44-354	

Package : IPMCS

Report No. : 50

Template No. 5-0000-0001-T2 Rev.

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Client : CPCL	Dept./Sect. : 16/43
Project : RESID UPGRADATION	Rev. L dt : 28/01/2010
Location : CHENNAI	Pipe Class : A3A Sheet 4 of 8

	R	72
	R R	70
	R R R	68
	R R R R	66
	R R R R R	64
	R R R R R R	62
	R R R R R R R	60
	R R R R R R R R	58
	R R R R R R R R R	56
	R R R R R R R R R R	54
	R R R R R R R R R R R	52
	R R R R R R R R R R R R	50
	R R R R R R R R R R R R R	48
	R R R R R R R R R R R R R R	46
	R R R R R R R R R R R R R R R	44
	R R R R R R R R R R R R R R R R	42
	R R R R R R R R R R R R R R R R R	40
	R R R R R R R R R R R R R R R R R R	38
	R R R R R R R R R R R R R R R R R R R	36
	R R R R R R R R R R R R R R R R R R R R	34
	R R	32
	R R	30
	R R	28
	R R	26
	R R	24
	R R	22
	R R	20
	R R	18
	R R	16
	R R	14
	R R	12
	R R	10
	R R	8.0
	R R	6.0
	R R	5.0
	R R	4.0
	R R	3.5
	R R	3.0
	R R	2.5
	R R	2.0
	H H H H	1.5
	H H H H	1.25
	H H H H	1.0
	H H H H	0.75
	H H H H	0.5
68	70	72

BRANCH PIPE (SIZE IN INCHES)

Client : CPCL	Dept./Sect. : 16/43
Project : RESID UPGRADATION	Rev. L dt. 28/04/2010
Location : CHENNAI	Pipe Class : A3A Sheet 5 of 8

Note : (The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/Thk	Dimn. STD	Material	Description	Commodity Code	Note No
Pipe Group									
PIP	PIPE	0.250	0.750	S180	B-36.10	ASTM A 106 GR.B	PE SEAMLESS		
PIP	PIPE	1.000	1.500	XS	B-36.10	ASTM A 106 GR.B	PE SEAMLESS		
PIP	PIPE	2.000	2.500	XS	B-36.10	ASTM A 106 GR.B	BE SEAMLESS		
PIP	PIPE	3.000	10.000	STD	B-36.10	ASTM A 106 GR.B	BE SEAMLESS		
PIP	PIPE	12.000	12.000	6.0	IS - 3589	IS - 3589 GR.330	BE, E.FS.W		
PIP	PIPE	14.000	18.000	8.0	IS - 3589	IS - 3589 GR.330	BE, E.FS.W		
PIP	PIPE	20.000	24.000	10.0	IS - 3589	IS - 3589 GR.330	BE, E.FS.W		
PIP	PIPE	26.000	48.000	12.0	IS - 3589	IS - 3589 GR.330	BE, E.FS.W		
PIP	PIPE	50.000	60.000	14.0	IS - 3589	IS - 3589 GR.330	BE, E.FS.W		
PIP	PIPE	64.000	72.000	16.0	IS - 3589	IS - 3589 GR.330	BE, E.FS.W		
PIP	PIPE	76.000	80.000	18.0	IS - 3589	IS - 3589 GR.330	BE, E.FS.W		
NIP	NIPPLE	0.250	1.500	M	B-36.10	ASTM A 106 GR.B	PBE SEAMLESS		
Flange Group									
FLG	FLNG.SW	0.50	1.50	M	B-16.5	ASTM A 105	150, RF/125AARH	FSC012720	
FLG/300	FLNG.SW	0.50	1.50	M	B-16.5	ASTM A 105	300, RF/125AARH	F8C014720	
FLG/600	FLNG.WN	2.00	18.00	M	B-16.5	ASTM A 105	600, RF/125AARH	FWC016720	
FLG/900	FLNG.WN	2.00	4.00	M	B-16.5	ASTM A 105	900, RT/163AARH	FWC017920	
FLG/300	FLNG.WN	2.00	10.00	M	B-16.5	ASTM A 105	300, RF/125AARH	FWC014720	
FLG	FLNG.SO	2.00	24.00		B-16.5	ASTM A 105	150, RF/125AARH	FNC012720	
FLG	FLNG.SO	26.00	80.00		AWWA-C207 CL.D	ASTM A 105	150, FF/125AARH	FN4012120	
FLB	FLNG.BLIND	0.50	24.00		B-16.5	ASTM A 105	150, RF/125AARH	FBC012720	
FLB	FLNG.BLIND	26.00	48.00		AWWA-C207 CL.D	ASTM A 285 GR.C	150, FF/125AARH	FB4532120	
FEF	FLNG.FIG.S	0.50	8.00		ASME-B16.48	ASTM A 105	150, FF/125AARH	FGR012120	
FEF	SPCR&BLND	10.00	24.00		ASME-B16.48	ASTM A 105	150, FF/125AARH	FCR012120	
FEF	SPCR&BLND	26.00	80.00		MNF STD	ASTM A 285 GR.C	150, FF/125AARH	FCG532120	

Package : IPMCS

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A3A

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Client : CPCL	Dept./Sect. : 16/43
Project : RESID UPGRADATION	
Location : CHENNAI	Pipe Class : A3A Sheet 6 of 8

Note : (The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (inch)	Upper Size (inch)	Sch/Thk	Dim. STD	Material	Description	Commodity Code	Note No
Fitting Group									
ELB90	ELBOW.90	0.25	0.25		B-16.11	ASTM A 105	SW, 3000	WAG602D2Z0	
ELB90	ELBOW.90	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WAG602D2Z0	
ELB90	ELBOW.90	2.00	6.00	STD	B-16.9	ASTM A 234 GR.WPB	BW, 1.5D	WAG684Z10	
ELB45	ELBOW.45	0.25	0.25		B-16.11	ASTM A 105	SW, 3000	WBG602D2Z0	
ELB45	ELBOW.45	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WBG602D2Z0	
ELB45	ELBOW.45	2.00	6.00	STD	B-16.9	ASTM A 234 GR.WPB	BW, 1.5D	WBG684Z10	
MIT90	MITRE.90	3.00	30.00	M	EIL/STD	IS-3589 GR.330	BW, 1.5D	WDKRF141Z0	
MIT45	MITRE.45	3.00	30.00	M	EIL/STD	IS-3589 GR.330	BW, 1.5D	WDKRF141Z0	
TEQ	T.EQUAL	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WEG602D2Z0	
TEQ	T.EQUAL	2.00	6.00	STD	B-16.9	ASTM A 234 GR.WPB	BW	WEG684Z20	
TEQ	T.EQUAL	3.00	48.00	M	B-16.9	ASTM A 234 GR.WPB-W	BW	WEG754Z20	
TRED	T.RED	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WRG602D2Z0	
TRED	T.RED	2.00	6.00	STD	B-16.9	ASTM A 234 GR.WPB	BW	WRG684Z20	
TRED	T.RED	3.00	48.00	M.M	B-16.9	ASTM A 234 GR.WPB-W	BW	WRG754Z20	
REDC	REDUC.CONC	2.00	6.00	STD, STD	B-16.9	ASTM A 234 GR.WPB	BW	WUG684Z20	
REDC	REDUC.CONC	3.00	30.00	M.M	EIL/STD	IS-3589 GR.330	BW	WUKRF14Z20	
REDE	REDUC.ECC	2.00	6.00	STD, STD	B-16.9	ASTM A 234 GR.WPB	BW	WYG684Z20	
REDE	REDUC.ECC	3.00	30.00	M.M	EIL/STD	IS-3589 GR.330	BW	WVKRF14Z20	
SWGC	SWAGE.CONC	0.25	3.00	STD, STD	BS-3799	ASTM A 105	PBE	WNH026Z20	
SWGE	SWAGE.FCC	0.25	3.00	STD, STD	BS-3799	ASTM A 105	PBE	WPH026Z20	
CAP	CAP	0.50	1.50		B-16.11	ASTM A 105	SCRF, 2000	WF602S1Z0	
CAP	CAP	2.00	6.00	STD	B-16.9	ASTM A 234 GR.WPB	BW	WFG684Z20	
CAP	CAP	3.00	48.00	M	B-16.9	ASTM A 234 GR.WPB	BW	WFG684Z20	

Package : IPMCS

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A3A

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Client : CPCL	Dept./Sect. : 16/43
Project : RESID UPGRADATION	
Location: CHENNAI	Pipe Class : A3A Sheet 7 of 8

Note : (The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/Thk	Dimn. STD	Material	Description	Commodity Code	Note
Flange Group									
CAP	CAP	50.00	80.00	CALC	ASME-VIII	ASTM A 235 GR.C	BW	WF3154Z20	
CPLF	CPLNG.FULL	0.50	1.50		B-16.11	ASTM A 105	SW, 1000	WJ602D2Z0	
CPLH	CPLNG.HALF	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WK602D2Z0	
CPLL	CPLNG.LH	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WL602D2Z0	
CPLR	CPLNG.RED	0.50	1.50		B-16.11	ASTM A 105	SW, 3000	WM602D2Z0	
UNN	UNION	0.50	1.50		BS-3799	ASTM A 105	SW, 3000	WQH02D2Z0	
Valve Group									
GAV	VLV.GATE	0.25	1.50		API-602	BODY-ASTM A 105,TRIM- STELLITED,STEM- 13%CR STEEL	SW, 800, 3000, B- 16.11, SHT NO.- 51001	51001Z2Z0	
GAV	VLV.GATE	2.00	24.00		API-600	BODY-ASTM A 216 GR.WCB,TRIM- 13% CR STEEL	FLGD, 150, B-16.5, RF/125AARIH, SHT NO.- 51321	51321Z2Z0	
GLV	VLV.GLOBE	0.50	1.50		BS-5332	BODY-ASTM A 105,TRIM- STELLITED,STEM- 13%CR STEEL	SW, 800, 3000, B- 16.11, SHT NO.- 52001	52001Z2Z0	
GLV	VLV.GLOBE	2.00	16.00		BS-1873	BODY-ASTM A 216 GR.WCB,TRIM- 13% CR STEEL	FLGD, 150, B-16.5, RF/125AARIH, SHT NO.- 52321	52321Z2Z0	
CHV	VLV.CHECK	0.50	1.50		BS-5332	BODY-ASTM A 105,TRIM- STELLITED	SW, 800, 3000, B- 16.11, SHT NO.- 53001	53001Z2Z0	
CHV	VLV.CHECK	2.00	24.00		BS-1868	BODY-ASTM A 216 GR.WCB,TRIM- 13% CR STEEL	FLGD, 150, B-16.5, RF/125AARIH, SHT NO.- 53321	53321Z2Z0	
CHV	VLV.CHECK	26.00	48.00		API-594	BODY-ASTM A 105 /A 216GR.WCB,TRIM- 13% CR STEEL	FLGD, 150, AWWAC207, FF/125AARIH, SHT NO.- 53316	53316Z2Z0	
BLV	VLV.BALL	0.50	16.00		BS-5351	BODY-ASTM A 105 /A 216GR.WCB,TRIM- BODY SEAT- RPTFE	FLGD, 150, B-16.5, RF/125AARIH, SHT NO.- 54321	54321Z2Z0	
BFV	VLV.BTRFLY	3.00	24.00		BS-5155	BODY-ASTM A 216 GR.WCB,TRIM- 13% CR STEEL	WAF, 150, B-16.5, WAF/125AARIH, SHT NO.- 56321	56321Z2Z0	
BFV	VLV.BTRFLY	26.00	48.00		BS-5155	BODY-ASTM A 216 GR.WCB,TRIM- 13% CR STEEL	FLGD, 150, AWWAC207, FF/125AARIH, SHT NO.- 56316	56316Z2Z0	

Package : IPNCS
Report No. : 50

Template No. 5-0000-0001-12 Rev.

A3A

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Client : CPCL	Dept./Sect. : 16/43
Project : RESID UPGRADATION	Rev. 1 dt: 28/04/2010
Location : CHENNAI	Pipe Class : A3A Sheet 8 of 8

Note : (The shaded portion of PMS body shows Field Fabricated Items)

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/ Tbk	Dmn. STD	Material	Description	Commodity Code	Note No
Bolt Group									
BOS	BOLLSTUD	18.00	80.00		B-18.2	BOLT-A193 GR.B7, NUT-A194 GR.2H		BS4040420	
BOS	BOLT STUD	0.50	16.00		B-18.2	BOLT-A307 GR.B, NUT-A363 GR.B			4
Gasket Group									
GAS	GASKET	0.50	24.00		B-16.21-ANSI B16.5	NONASBESTOS BS7531 GR X	RING, 150, 2 MM	GKBAX5220	
GAS	GASKET	26.00	80.00		AWWA-C207 CL D	NONASBESTOS BS7531 GR X	FULLFACE, 150, 2 MM	GR2AX2220	
GAS/600	GASKET	0.50	24.00		B-16.20-ANSI B16.5	SP.WND SS316+GRAFIL	SPIRAL, 600	GK6507620	
GAS/900	GASKET	0.50	24.00		B-16.20-ANSI B16.5	SOFT IRON	OCT-RING, 900	OK6723720	
GAS/300	GASKET	0.50	24.00		B-16.20-ANSI B16.5	SP.WND SS316+GRAFIL	SPIRAL, 300	GK6507420	
Trap/Strainer Group									
TRP	TRAP,STEAM	0.50	1.50		MNF STD	B-A105,T:13%CR,S:SS304	FLGD, THRM DNMC, 150,RF/125AARH	TR3065530	
TSR	STRNR,TEMP	1.50	24.00		EIL STD	B-A285GR,C:INT,S:SS304	CONETYPE, 150,RF/125AARH	ST1443120	
PSR	STRNR,PERM	0.50	1.50		MNF STD	B-A105,INT,SS304	SW, Y-TYPE, 800	SP303DS10	
PSR	STRNR,PERM	2.00	6.00	M	EIL STD	B-A234GR,WPB,INT,SS304	BW, T-TYPE	SP1344420	
PSR	STRNR,PERM	8.00	24.00	M	EIL STD	B-A234GR,WPB,INT,SS304	BW, T-TYPE	SP1364420	

RATING : 1500#	CLIENT : CPCL	PIPE CLASS
BASIC MATERIAL : CS	LOCATION : CHENNAI, INDIA	F2A
SPECIAL REQUIREMENT : IBR SERVICE	PROJECT TITLE : RESID UPGRADATION	
CORR. ALLOWANCE : 1.5 MM	ENGG. CONSULTANT : JACOBS ENGG. (I) PVT. LTD.	
REVISION : 0	DOCUMENT NO. : 44NC-4600-0000/L.02/0011/A4	PAGE 1 OF 3

TEMPERATURE (Deg. C) AND PRESSURE (Kg/Sq. cm g) RATINGS

TEMP	0	38	93	149	204	260	316	343	371	399	427
PRESS	260.49	260.49	237.28	230.00	222.87	210.57	192.29	188.77	187.37	177.17	144.83

SERVICE

STEAM AND BOILER FEED WATER (IBR)

NOTES

1. NDT REQUIREMENT SHALL BE AS PER JACOBS SPECIFICATION 44NC-4600-0000/L.02/0013/A4.
3. USE PIPE OF CLASS 22 INSTEAD OF CLASS 12 IF PIPE THICKNESS EXCEEDS 19.05MM.
8. ALL PIPES, FITTINGS, VALVES, FLANGES, TRAPS AND STRAINERS SHALL BE TESTED AND TEST CERTIFICATE IN FORM III A FOR PIPE AND FORM III C FOR OTHERS SHALL BE REQUIRED. DULY COUNTERSIGNED BY IBR AUTHORITY OR ITS APPROVED REPRESENTATIVE.
9. CARBON CONTENT SHALL NOT EXCEED 0.25% FOR ALL PIPES, FITTINGS FLANGES ETC. THAT MAY REQUIRE WELDING.
MOREOVER FOR FLANGES THE SULPHUR AND PHOSPHOROUS SHALL ALSO BE LIMITED TO 0.05% EACH.
122. ASBESTOS FREE GASKETS AND STEM PACKING SHALL BE USED FOR ALL VALVES.
165. FOR TEMP. UPTO 427^oC WHEREVER RTJ AUSTENITIC STEEL FLANGE MATES WITH RTJ FERRITIC STEEL FLANGE THE BOLTING MATERIAL SHALL BE ASTM A193 GR B7 / A 194 GR 2H AND GASKET MATERIAL SHALL CORRESPOND TO LOWER METTALURGY.
185. FOR SPECIAL REQUIREMENTS OF Y-PATTERN GLOBE VALVE & Y-PATTERN CHECK VALVES, REFER ANNEXURE TO PMS.
187. THIS NOTE SHALL BE READ IN CONJUNCTION WITH NOTE-165.
EXCEPT THAT THE GASKET MATERIAL SHALL BE OF HIGHER METTALURGY WHEN THE FERRITIC STEEL FLANGE IS OVERLAID WITH THE AUSTENITIC MATERIAL.
200. FOR ALL SPACER & SPECTACLE BLINDS OF SIZES 6" AND ABOVE, JACK SCREW FLANGES TO BE CONSIDERED.

SPECIAL NOTES

ITEM	SIZE	DESCRIPTION
MAINT. JOINTS	ALL	FLANGED (TO BE KEPT MINIMUM)
PIPE JOINTS	ALL	BUTT WELDED
DRAINS	ON LINES ≤ 1.5"	AS PER P&ID OR 0.75". TEE, NIPPLE, DOUBLE VALVE (AS PER P&ID OR LINE ISOLATION VLV) BLIND FLANGE ASSEMBLY.
	ON LINES ≥ 2"	AS PER P&ID OR 0.75". WELDOLET, NIPPLE, DOUBLE VALVE (AS PER P&ID OR LINE ISOLATION VLV) BLIND FLANGE ASSEMBLY.
VENTS	ON LINES ≤ 1.5"	AS PER P&ID OR 0.75". TEE, NIPPLE, DOUBLE VALVE (AS PER P&ID OR LINE ISOLATION VLV) BLIND FLANGE ASSEMBLY.
	ON LINES ≥ 2"	AS PER P&ID OR 0.75". WELDOLET, NIPPLE, DOUBLE VALVE (AS PER P&ID OR LINE ISOLATION VLV) BLIND FLANGE ASSEMBLY.
TEMP. CONN.	1.5"	FLANGED. REFER JACOBS' STD 4401-4600-0353.
PRESS. CONN.	0.75"	TEE/WELDOLET & NIPPLE WITH DOUBLE VALVE (AS PER P&ID OR SIMILAR TO LINE ISOLATION VALVE)

RATING : 1500#	CLIENT : CPCL	PIPE CLASS
BASIC MATERIAL : CS	LOCATION : CHENNAI, INDIA	F2A
SPECIAL REQUIREMENT : IBR SERVICE	PROJECT TITLE : RESID UPGRADATION	
CORR. ALLOWANCE : 1.5 MM	ENGG. CONSULTANT: JACOBS ENGG. (I) PVT. LTD.	
REVISION : 0	DOCUMENT NO. : 44NC-4600-0000/L.02/0011/A4	PAGE 3 OF 3

Input Id.	Item Type	Lower Size (Inch)	Upper Size (Inch)	Sch/Thk	Dmn. STD	Material	Description	Commodity Code	Note No
Pipe Group									
PIP	PIPE	0.50	10.0	S160	B 36.10	ASTM A 106 GR. B	BE, SEAMLESS		
NIP	NIPPLE	0.50	1.50	M	B 36.10	ASTM A 106 GR. B	PBE, SEAMLESS		
Flange Group									
FLG	FLNG. WN	0.50	10.0	M	B 16.5	ASTM A 105	1500, RTJ / 63 AARH		
FLB	FLNG. BLIND	0.50	10.0		B 16.5	ASTM A 105	1500, RTJ / 63 AARH		
FEF	FLNG. FIG.8	0.50	4.00		B 16.48	ASTM A 105	1500, RTJ / 63 AARH		
FEF	SPCR&BLND	6.00	10.0		B 16.48	ASTM A 105	1500, RTJ / 63 AARH		200
Fitting Group									
ELB90	ELBOW. 90	0.50	10.0	M	B 16.9	ASTM A 234 GR. WPB	BW, 1.5D		
ELB45	ELBOW. 45	0.50	10.0	M	B 16.9	ASTM A 234 GR. WPB	BW, 1.5D		
TEQ	T. EQUAL	0.50	10.0	M	B 16.9	ASTM A 234 GR. WPB	BW		
TRED	T.RED	0.50	10.0	M, M	B 16.9	ASTM A 234 GR. WPB	BW		
REDC	REDUC.CONC	0.50	10.0	M, M	B 16.9	ASTM A 234 GR. WPB	BW		
REDE	REDUC.ECC	0.50	10.0	M, M	B 16.9	ASTM A 234 GR. WPB	BW		
CAP	CAP	0.50	10.0	M	B 16.9	ASTM A 234 GR. WPB	BW		
Olet Group									
WLT	WELDOLET	0.50	10.0	M, M	MSS-SP97	ASTM A 105	BW		
Valves Group									
GAV	VLV. GATE	0.50	1.50		API 602	BODY - ASTM A 105, TRIM - STELLITED	BW, 1500, B16.25, SHT NO. 51102		
GAV	VLV. GATE	2.00	10.0		ANSI B 16.34	BODY - ASTM A 105 / A 216 GR. WCB, TRIM - STELLITED	BW, 1500, B16.25, SHT NO. 51702		
GLV	VLV. GLOBE	0.50	1.50		BSEN ISO 15761	BODY - ASTM A 105, TRIM - STELLITED	BW, 1500, B16.25, SHT NO. 52102		
GLV	VLV. GLOBE	2.00	6.00		ANSI B 16.34	BODY - ASTM A 216 GR. WCB, TRIM - STELLITED	BW, 1500, B16.25, SHT NO. 52702		
CHV	VLV. CHECK	0.50	1.50		BSEN ISO 15761	BODY - ASTM A 105, TRIM - STELLITED	BW, 1500, B16.25, SHT NO. 53102		
CHV	VLV. CHECK	2.00	10.0		ANSI B 16.34	BODY - ASTM A 216 GR. WCB, TRIM - STELLITED	BW, 1500, B16.25, SHT NO. 53702		
YGL	VLV. YGLOBE	0.50	1.50		ANSI B 16.34	BODY - ASTM A105, TRIM - 13% CR. STEEL	BW, 1500, B16.25, SHT NO. 62102		185
Bolt Group									
BOS	BOLT. STUD	0.50	4.00		B18.2	BOLT : A193 GR. B7, NUT : A194 GR. 2H			
Gasket Group									
GAS	GASKET	0.50	4.00		B16.20, ANSI B16.5	SOFT IRON (90 BHN)	OCT-RING , 1500		
M : MATCH TO PIPE THICKNESS									

ANNEXURE-22

APPROVED SUB-VENDOR LIST

Client : CPCL	Contract No : 44NC 4600
Project : Resid Upgradation Project	
Location : Chennai	Page 1 of 1

Confirmation of <input checked="" type="checkbox"/> Meeting Telephone Talk	Date held : 7 th May, 2015 Location : Project Conference Hall, CPCL, Manali, Chennai Date Issued : 7 th May, 2015 Recorded by : Ravishankar Mahanathi Issued by : Ravishankar Mahanathi
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Subject :
**Approval of additional vendors for 1x150 TPH Utility Boiler and
and 1x20 MW GTG+1x100 TPH HRSG projects at CPCL Manali.**

Participants: (* Indicates Part Time Participation)

M/s CPCL
Mr. T Rajasekaran
Mr. M Kalaivanan*

M/s JACOBS
Mr. Ravishankar Mahanathi

M/s BHEL
Mrs. P C Suguna
Mr. K Chinnaswamy
Mr. V Srineevasan
Mr. M K Joshi

As per enclosed attendance list

Following points were discussed and agreed.

Sl. No.	Description	Action by
1	Vendor lists for both 1x150 TPH Utility boiler and 1x20 MW GTG + 1x100 TPH HRSG projects were discussed for Trichy, Piping center - Chennai, PESD - Hyderabad, Ranipet and EDN - Bangalore units of BHEL. The agreed vendor list for Utility Boiler project is enclosed as 'Annexure-1' and for GTG+HRSG project is attached as 'Annexure-2'. As per the discussion CPCL/ Jacobs acceptable items are marked as (✓) and which are not acceptable are strike-off.	
2	CPCL/Jacobs Informed BHEL to submit a consolidate list of acceptable vendors only based on the above annexures for all units together. Based on the above acceptable vendor list BHEL shall proceed for further procurement action.	

Signature
Kel
M. Kalivanan

BHEL

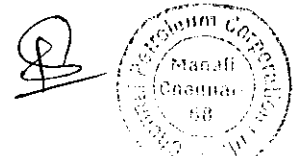
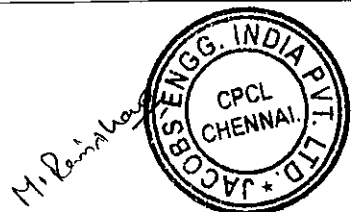
M. Ravishankar

JACOBS

Signature

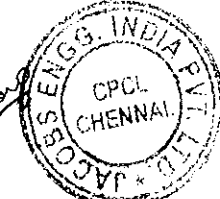
CPCL

Project: 1x150 TPH Utility Boiler-Resid Upgradation CPCL, Manali Vendor List: Unit: PE&SD, Hyderabad Vs CPCL							
Sl. No.	MIPP Item Description	Customer Vendor list / Sl. No. and page reference	PMD No	PE & SD PMD Vendor	Matching with CPCL	Items where 04 or more than 04 vendors are matching with CPCL (As per MOM dated 12.02.15)	Items where less than 04 vendors are matching with CPCL list. (As per MOM dated 12.02.15)
	Mechanical						
1	SUMP PUMPS (Blow down Transfer pumps)	Sl. No. 6, Page 4 of 14 of Rotary equipment 1 Arai Pump Mfg Co Ltd Japan 2 Bharat Pumps & Compressors Ltd. India 3 DMW Corporation Japan 4 Ebara Corporation Japan 5 Flowserve Corporation (Formerly 1571) USA 6 Flowserve (Thompsons Kelly & Lewis Pty. Ltd.) Australia 7 Goulds Pumps Inc. USA 8 Kirloskar Brothers Ltd India 9 Kirloskar Ebara Pumps Ltd. India 10 Kishor Pumps Pvt. Ltd. India 11 KSB Aktiengesellschaft Germany 12 KSB Pumps Ltd. India - Pune 13 Nuovo Pignone SpA (Italy) GE Oil Co.) Italy 14 Weir Gabbioneta SpA Italy 15 Ruhrpumpen GmbH (Formerly Thyssen 509) Germany 16 Shin Nippon Machinery Co. Ltd. Japan 17 Sterling Fluid Systems Limited UK 18 SU Motors Pvt. Ltd. India 19 Sulzer Pumps (US) Inc. USA 20 Sulzer Pumpen Deutschland GmbH Germany 21 Sulzer Pumps India Limited India 22 Textron Fluid Handling Products Singapore	PE.MP.024	KISHOR PUMPS PRIVATE LTD SU MOTORS PVT. LTD. NUOVO PIGNONE PUMPS INDIA PVT. LTD. MATHER & PLATT PUMPS LTD. FLOWMORE LIMITED GABBIONETA PUMPS PVT. LTD. KVPIL LIMITED VARAT PUMP AND MACHINERY PVT. LTD.	Yes Yes No No No No No No		Only two vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.
2	SAFETY RELIEF VALVES (TRVs)	Sl.No.40, Page 11 of 29 of piping. 1. Anderson Greenwood Crossby International 2. BHEL India - Trichy 3. Curtiss Wright Flow Control Corporation International 4. Dresser IN International 5. Fukui Selsakusho Co. Ltd. International 6. Instrumentation Ltd. India - Palghat 7. Leser GMBH & Co. International 8. Mekaster Valves & Engineering Services Pvt. Ltd. India 9. Nakakita Seisakushao Co. Ltd. International 10. Nuovo Pignone (GE Oil Co) International 11. Parco SPA International 12. Safety Systems UK 13. Tai Milano SPA International 14. Tyco Sanmar Ltd. India 15. Weir Valves & Controls France	PE.IN.566	INSTRUMENTATION LTD TYCO SANMAR LIMITED. ROPP & REUTHER SICHERHEITS-UND BISS ANAND PVT. LTD. WEIR BDK VALVES FORBES MARSHALL LTD.,	Yes Yes No No No No		Only two vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.
3	CONTROL VALVES (PNEUMATIC DIAPHRAGM)	Sl. No. 104, Page 22 of 26 of Instrumentation. 1 Dresser Valve India Pvt. Ltd. India 2 Fisher Sanmar Ltd. India 3 Instrumentation Ltd. Palghat India 4 MIL Controls Ltd. India 5 Forbes Marshall ARCA Pvt Ltd. India 6 Koso Fluid Controls India 7 Arca Regler GMBH (c/o Forbes Marshall 8 Dresser Products Industriels (c/o Dresser Valve India Pvt. Ltd. 9 Flowserve PTE Ltd. (c/o Flowserve India Controls Pvt. Ltd. 10 Kent Introl UK Ltd., UK 11 Metso Automation PTE Ltd. (formerly NELEs) 12 Motoyama Engineering Works Ltd. 13 Nuovo Pignone Spa (GE OIL) Italy 14 Severn Glocon Ltd. (c/o Severn Glocon India Pvt. Ltd.	PE.IN.515	INSTRUMENTATION LTD KOSO FLUID CONTROLS PVT. LTD. FORBES MARSHALL ARCA LTD. DRESSER VALVE INDIA PVT.LTD. MIL CONTROLS LIMITED. EMERSON PROCESS MANAGEMENT	Yes Yes Yes Yes Yes Yes	All BHEL PMD vendors matching with CPCL vendor list.	
4	GAS CONDITIONING SKID	Not available	PE.MP.001	JORD INTERNATIONAL PVT LTD DALIAN ENER GAS-SYSTEM CO., LTD. MULTITEX FILTRATION ENGRS LTD., GRAND PRIX ENGINEERING PVT. LTD GAS TECH-PROGRESS ENGINEERING NIRMAL INDUSTRIAL CONTROLS PVT LTD A-PLUS PROJECTS & TECHNOLOGY (P) LT PETROMAR ENGINEERED SOLUTIONS PEERLESS MFG. CO.	No No No No No No No	Not in CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the BHEL PMD vendors. Internal approval of BHEL BHEL PMD vendors attached.	



ANNEXURE - 1

Sl. No.	MIPP Item Description	Customer Vendor list / Sl. No. and page reference	PMD No	PE & SD PMD Vendor	Matching with CPCL	Items where 04 or more than 04 vendors are matching with CPCL (As per MOM dated 12.02.15)	Items where less than 04 vendors are matching with CPCL list. (As per MOM dated 12.02.15)
10	PIPE FITTINGS (CS SEAMLESS)	Sl. No.72, Page 19 of 29 of piping. 1 Anup Engineering Limited India 2 EBY Industries India 3 CSA Fittings India 4 Eften Engineering Pvt. Ltd. India 5 Gujarat Infrapipes Pvt. Ltd. India 6 M S Fittings Mfg. Co. Pvt. Ltd. India 7 Sidharth & Gautam Engineers India 8 Teekay Tubes Pvt. Ltd. India 9 Tube Products incorporate India 10 Sivanandha Pipe & Fittings Ltd. India	PE.MP.511	<input checked="" type="checkbox"/> TUBE PRODUCTS INCORPORATE <input checked="" type="checkbox"/> GUJARAT INFRAPIPES PVT.LTD. <input type="checkbox"/> OT PIPE FITTINGS PVT. LTD. <input type="checkbox"/> TUBE EDERGE PVT.LTD. <input type="checkbox"/> TUBE DEVELOPMENT ENGINEERS LTD., <input type="checkbox"/> TUBE FAB ENGINEER (P) LTD. <input type="checkbox"/> P.K. TUBES & FITTINGS PVT. LTD. <input type="checkbox"/> K.S. PIPE FITTINGS PVT. LTD. <input type="checkbox"/> TUBE TURN (INDIA) P. LTD.	Yes Yes No No No No No No No	Items where 04 or more than 04 vendors are matching with CPCL (As per MOM dated 12.02.15)	Only two vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.
11	FLANGES	For CS Flanges: Sl. No. 43, Page 12 of 29 of piping. 1 Abasi Engineering Works India 2 Britex Engineering Works India 3 CD Engineering Co. India 4 Chaudhry Hammer Works Ltd. India 5 Echjay Industries Pvt. Ltd. India - Rajkot 6 Golden Iron & Steel Works India 7 J.K.Forgings India 8 Jav Forgings (P) Ltd India 9 Kunj Forgings Pvt.Ltd. India 10 M.S. Fittings Mfg. Co.Pvt Ltd. India 11 Metal Forgings Pvt Ltd India 12 R. N. Gupta & Co. Ltd India 13 R. P Engineering Pvt. Ltd. India 14 Shah Industrial & Comm. Corporation India 15 Sree Ganesh Forging Ltd. India 16 Uma Shankar Khandelwal & Co. India For SS flanges: Sl. No. 45, Page 12 of 29 of piping. 1 CD Engineering Co. India 2 Chaudhry Hammer Works Ltd. India 3 Echjay Industries Pvt. Ltd. India 4 Golden Iron & Steel Works India 5 Jav Forgings (Pvt.) Ltd. 6 Metal Forging Pvt Ltd India 7 Shree Ganesh Forgings Ltd India 8 UMA Shankar Khandelwal & Co. India	PE.MP.042	<input checked="" type="checkbox"/> METAL FORGINGS P. LTD. <input checked="" type="checkbox"/> OMV FORGE PRIVATE LIMITED <input type="checkbox"/> PRESHZINGER ENGINEERING <input type="checkbox"/> THE PUNJAB STEEL WORKS, <input type="checkbox"/> TUBE PRODUCTS INCORPORATE <input type="checkbox"/> C.B. INDUSTRIES, <input type="checkbox"/> HISAAN STEELS (PVT) LTD.,	Yes Yes No No No No No	Items where 04 or more than 04 vendors are matching with CPCL (As per MOM dated 12.02.15)	Only two vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.
12	GASKETS	Sl. No. 3, Page 2 of 29 of piping. 1 Goodrich Gasket Pvt. Ltd. India 2 IGP Engineers Ltd India 3 Madras Industrial Products India 4 Star Flex Sealing India Pvt.Ltd. India 5 Teekay Metaflex Pvt. Ltd. India 6 Uni Klinger Ltd India 7 Unique Industrial Packing India	PE.MP.041	<input checked="" type="checkbox"/> STARFLEX SEALING INDIA <input checked="" type="checkbox"/> UNIQUE INDUSTRIAL PACKINGS PVT. LTD <input checked="" type="checkbox"/> UNIKLINGER LTD. <input checked="" type="checkbox"/> IGP ENGINEERS LIMITED, <input checked="" type="checkbox"/> MADRAS INDUSTRIAL PRODUCTS, <input type="checkbox"/> YOTHI INDUSTRIES, <input type="checkbox"/> JAMES WALKER INMARCO INOS PVT LTD <input type="checkbox"/> PACKINGS & JOINTINGS GASKETS	Yes Yes Yes Yes No No No	Five vendors are matching with CPCL list. CPCL is requested to comment/ approve additional vendors of BHEL PMD list.	
13	BOLTING MATERIAL	Sl. No. 6, Page 2 & 3 of 29 of piping. 1. AEP Company India 2. Bolt Master India Pvt. Ltd. India 3. Deepak Fasteners Limited India 4. Fastener & Allied Products Pvt Ltd India 5. Hardwin Fasteners Pvt Ltd India 6. JJ Industries India 7. Multi Fasteners Pvt Ltd India 8. Nexo Industries India 9. Pacific Forging & Fasteners (Eng To Ptd) India 10. Pioneer Nuts And Bolts Pvt. Ltd. India 11. Precision Auto Engineers Pvt. Ltd. India 12. Precision Egg Industries India 13. President Engineering Works India 14. Sandeep Engineering Works India 15. Syndicate Engineering Industries India	PE.MP.512	<input checked="" type="checkbox"/> BOLTMASTER (INDIA)PVT.LTD. <input checked="" type="checkbox"/> PRESIDENT ENGINEERING WORKS <input checked="" type="checkbox"/> PIONEER NUTS AND BOLTS PVT.LTD <input type="checkbox"/> ATLAS FASTENERS <input type="checkbox"/> MEGA ENGINEERING PVT. LTD. <input type="checkbox"/> MISHRINA STAR INDUSTRIES, <input type="checkbox"/> UBCHRA FASTENERS LIMITED, <input type="checkbox"/> SREE PAVITHRA INDUSTRIES,	Yes Yes Yes No No No No	Items where 04 or more than 04 vendors are matching with CPCL (As per MOM dated 12.02.15)	Only three vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.
14	THERMAL INSULATION PACKAGE	Not available	PE.MP.034	<input type="checkbox"/> LLOYD INSULATIONS (INDIA) LTD., <input type="checkbox"/> MINWOOL ROCK FIBRES LTD., <input type="checkbox"/> LLOYD PROJECTS PVT. LTD. <input checked="" type="checkbox"/> JAEFER PUNJ LLOYD LIMITED	No No No No	Items where 04 or more than 04 vendors are matching with CPCL (As per MOM dated 12.02.15)	Not in CPCL vendor list. As per MOM dated 12.02.15, CPCL is requested to approve the BHEL vendors. Internal approval of BHEL BHEL PMD vendors attached.

M. B. ...





ANNEXURE - 1



Sl. No.	MIPP Item Description	Customer Vendor list / Sl. No. and page reference	PMD No	PE & SD PMD Vendor	Matching with CPCL	Items where 04 or more than 04 vendors are matching with CPCL (As per MOM dated 12.02.15)	Items where less than 04 vendors are matching with CPCL list. (As per MOM dated 12.02.15)
26	HT CABLE JOINTING / TERMINATING KITS	Sl. No. 38, Page 10 of 22 of Electrical Mahindra Engineering & Chemical India 2 Raychem RPG Ltd. India 3 REPL Engineering Ltd. India 4 Yamuna Gases & Chemicals Pvt Ltd India	PE.EP.009	RAYCHEM RPG LIMITED YAMUNA POWER & INFRASTRUCTURE LTD. BRLA 3 M LTD	Yes Yes No		Only two vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached. "Yamuna Gases & Chemicals Pvt Ltd India" changed to "YAMUNA POWER & INFRASTRUCTURE LTD."
27	CABLE GLANDS (WEATHER PROOF/EX.PROOF)	Sl. No. 37 & 92, Page 10 & 20 of 22 of Electrical a. Cable glands (for hazardous area) 1. Baliga Lighting Eqpts Ltd India 2. Comet Brass Product 3. Comet Industries 4. FCG Flameproof Control Gears Pvt. Ltd India 5. FCG Power Ind Pvt Ltd India 6. Flameproof Equipment Pvt Ltd India 7. Flexpro Electricals Pvt Ltd India 8. Prompt Engineers 9. R Stahl India 10. Standard Metals 11. Sudhir Switchgear b. For double compression cable gland weather proof: 1 Baliga India 2 Comet Brass Products India 3 Comet Industries India 4 Flexpro India 5 Flameproof Equipment Pvt. Limited India 6 FCG Power Industries India 7 FCG Flameproof Control Gears India 8 Prompt Engineers India 9 Standard Metal India 10 Sudhir Switchgear India 11 Electromag India *	PE.EP.038	FLUXPRO ELECTRICALS PVT. LTD. FCG POWER INDUSTRIES PROMPT ENGINEERING WORKS, MUMBAI FLAMEPROOF EQUIPMENTS PVT.LTD. FCG FLAMEPROOF CONTROL GEARS ELECTROMAC INDUSTRIES* UNITED AGRO ENGINEERING PVT. LTD.	Yes Yes Yes Yes Yes Yes No	Six vendors are matching with CPCL list. CPCL is requested to comment/ approve additional vendors of BHEL PMD list. * Electromac Industries approved only for double compression glands.	
28	CABLE LUGS & CRIMPING TOOLS	Sl. No. 94, Page 21 of 22 of Electrical 1 Crown India 2 Dowell India 3 Forward Engg. 4 Niko India	PE.EP.010	ATOMIC ELECTRIC & ELECTROMAC INDUSTRIES	No No		No vendor is matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to to approve the additional vendors. Internal approval of BHEL
29	CABLE TRAYS	Sl. No. 64, Page 14 of 22 of Electrical 1 Allied Engineering Co 2 Anand Udyog 3 Amptech Engineering services 4 Dy Engineers 5 Indiana 6 Indian Electrical syndicate 7 MEK Engineering and construction 8 Patny Systems 9 Premier Power Products	PE.EP.036	PATNY SYSTEMS PVT. LTD PREMIER POWER PRODUCTS INDIA ELECTRICALS SYNDICATE YAMUNA METAL COMPANY BARMAR METALS PVT. LTD. ETALEMMS BOMBAY PVT. LTD. WINFAB ENGINEERS INDIA PRIVATE	Yes Yes Yes No No No No		Only three vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.
30	EARTHING AND LIGHTENING PROTECTION MATERIALS	Not available	PE.EP.027	PATNY SYSTEMS PVT. LTD YAMUNA METAL COMPANY WINFAB ENGINEERS INDIA PRIVATE PREMIER POWER PRODUCTS INDIA ELECTRICALS SYNDICATE	No No No No No		Not in CPCL vendor list. As per MOM dated 12.02.15, CPCL is requested to to approve the BHEL vendors. Internal approval of BHEL BHEL PMD vendors attached.
31	LOCAL CONTROL STATIONS (SAFE / HAZARDOUS AREA)	Sl. No. 30, Page 9 of 22 of Electrical 1 Baliga Lighting Eqpts Ltd India 2 FCG Flameproof Control Gear Pvt. Ltd India 3 FCG Power Industries Pvt. Ltd. India 4 Flame Proof Eqpts Pvt Ltd India 5 Flexpro Electricals Pvt Ltd India 6 Govan Industries (India) Pvt Ltd. India 7 Prompt Engineering Works India 8 Sudhir Switch Gears Pvt Ltd India	PE.EP.032	FLUXPRO ELECTRICALS PVT. LTD. FCG POWER INDUSTRIES PROMPT ENGINEERING WORKS, MUMBAI FLAMEPROOF EQUIPMENTS PVT.LTD. FCG FLAMEPROOF CONTROL GEARS BALIGA LIGHTING EQUIPMENT PVT. LTD.	Yes Yes Yes Yes Yes Yes	All BHEL PMD vendors matching with CPCL vendor list.	
32	RUBBER MAT	Not available	PE.EP.025	SRIDHAR ENGINEERING AND RUBBER THE RUBBER PRODUCTS LTD. INDIAN RUBBER PRODUCTS KMG POLYVINYL INDIA LTD PROGRESSIVE RUBBER WORKS	No No No No No		Not in CPCL vendor list. As per MOM dated 12.02.15, CPCL is requested to to approve the BHEL vendors. Internal approval of BHEL BHEL PMD vendors attached.

M. Ramakrishnan
CPCL CHENNAI

Manat Chennai 03

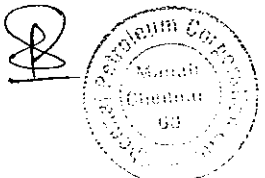
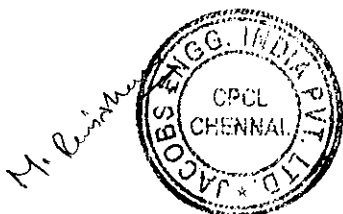
Sl. No.	MIPP Item Description	Customer Vendor list / Sl. No. and page reference	PMD No	PE & SD PMD Vendor	Matching with CPCL	Items where 04 or more than 04 vendors are matching with CPCL (As per MOM dated 12.02.15)	Items where less than 04 vendors are matching with CPCL list. (As per MOM dated 12.02.15)
33	UPS SYSTEM	Sl. No. 24, Page 7 of 22 of Electrical 1 DB Power Electronics Pvt Ltd India 2 Emerson Network Power Pvt Ltd India 3 Hi-Rel Electronics India 4 Kerala State ELECT Dev Corp Ltd India - KRKULM 5 Chloride Industrial Systems UK 6 Fuji Electric Co Ltd Japan 7 Gutor Electronics Ltd Switzerland 8 MGE Asia Pte Ltd Singapore 9 Saftnife AB Sweden 10 Toshiba Corporation India/Japan	PE.EP.018	EMERSON NETWORK POWER HITACHI HI-REL POWER KERALA STATE ELECTRONICS EMERSON NETWORK POWER GUTOR ELECTRONICS LTD, SWITZERLAN CHLORIDE POWER PROTECTION AMEFEK SOLIDSTATE CONTROLS	Yes Yes Yes Yes Yes No No	Five vendors are matching with CPCL list. CPCL is requested to comment/ approve additional vendors of BHEL PMD list.	
34	FIRE PROOF SEALING SYSTEM FOR CABLE PENETRATIONS & FIRE BREAK COATING FOR ELECTRICAL CABLES	Not available	PE.EP.058	LLOYD INSULATIONS (INDIA) LTD. AMULHI FIRE PVT. LTD ADJAY SYSTEMS ENGINEERS PVT. LTD. AGP PASSIVE FIRE SAFETY (P) LTD	No No No No		Not in CPCL vendor list. As per MOM dated 12.02.15, CPCL is requested to approve the BHEL vendors. Internal approval of BHEL.
35	DISTRIBUTED CONTROL SYSTEM	Sl. No. 1, Page 2 of 26 of Instrumentation. 1 Honeywell Automation India	PE.IN.001	HONEYWELL AUTOMATION INDIA LIMITED EMERSON PROCESS MGT (I) PVT LTD ABB LIMITED, HYD YOKOGAWA INDIA LIMITED EDMBORG	Yes No No No No		Only one vendor is matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.
36	LEVEL TRANSMITTER (GUIDED WAVE RADAR TYPE)	Sl. No. 21, Page 6 of 26 of Instrumentation. 1. Endress + Hauser GmbH & Co. (c/o Endress + Hauser India) India / Germany 2. Enraf B.V. Netherlands 3. SAAB Marine Sweden 4. Mobery Ltd. 5. Rosemount Tank Radar AB	PE.IN.010	ENDRESS & HAUSER GMBH + CO. SAAB ROSEMOUNT TANK GUAGING MAGNETROL INTERNATIONAL N.V. ROSEMOUNT PVT LTD VEGA INDIA LEVEL & PRESSURE MEASURE	Yes Yes No No No		Only two vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.
37	CONDUCTIVITY	Sl. No. 48b, Page 11 of 26 of Instrumentation. 1 ABB Automation Ltd. India / UK 2 Emerson Process Management India / Singapore 3 Forbes Polymetron Pvt. Ltd. India 4 Yokogawa Electric Corp India / Japan	PE.IN.508	EMERSON PROCESS MGT (I) PVT LTD ABB LIMITED, HYD YOKOGAWA INDIA LIMITED DKK TOA CORPORATION, HORIBA LTD. FORBES MARSHALL LTD.,	Yes Yes Yes No No No		Only three vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.
38	PH MONITORING SYSTEM	Sl. No. 48a, Page 11 of 26 of Instrumentation. 1 ABB Automation Ltd. India / UK 2 Emerson Process Management India / Singapore 3 Forbes Polymetron Pvt. Ltd. India 4 Honeywell Automation USA 5 Invensys Software Systems Pte Ltd Singapore 6 Yokogawa Electric Corp India / Japan	PE.IN.508	EMERSON PROCESS MGT (I) PVT LTD ABB LIMITED, HYD YOKOGAWA INDIA LIMITED DKK TOA CORPORATION, HORIBA LTD. FORBES MARSHALL LTD.,	Yes Yes Yes No No No		Only three vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.
39	Hydrazine and Sodium Analysers	Not available	PE.IN.508	EMERSON PROCESS MGT (I) PVT LTD ABB LIMITED, HYD DKK TOA CORPORATION, HORIBA LTD. YOKOGAWA INDIA LIMITED FORBES MARSHALL LTD.,	No No No No No No		Not in CPCL vendor list. As per MOM dated 12.02.15, CPCL is requested to approve the BHEL vendors. Internal approval of BHEL BHEL PMD vendors attached.
40	MASS FLOWMETER	Sl. No. 96, Page 19 of 26 of Instrumentation. 1 Emerson Process MGMT India Pvt. Ltd. India 2 Emerson Process MGMT Asia Pacific Pte. Ltd. Singapore 3 Endress + Hauser (I) Pvt. Ltd. India 4 Endress + Hauser Instruments Intl. AG Germany 5 Heinrichs Messtechnik GmbH Germany 6 Krohne Messtechnik GmbH & Co. KG Germany 7 FMC Measurement Solutions (c/o FMC Technologies Singapore Pte. Ltd.)	PE.IN.005	EMERSON PROCESS MGT (I) PVT LTD ENDRESS & HAUSER GMBH + CO. FORBES MARSHALL (HYD) PVT LIMITED, VE INDIA INDUSTRIAL PVT. LTD. YOKOGAWA INDIA LIMITED	Yes Yes No No No		Only two vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.

M. Parthasarathy


ANNEXURE-1

Sl. No.	MIPP Item Description	Customer Vendor list / Sl. No. and page reference	PMD No	PE & SD PMO Vendor	Matching with CPCL	Items where 04 or more than 04 vendors are matching with CPCL (As per MOM dated 12.02.15)	Items where less than 04 vendors are matching with CPCL list. (As per MOM dated 12.02.15)
41a	SIGNAL CABLE	Sl. No. 108, Page 23 of 26 of Instrumentation. 1 Associated Flexibles & Wires (P) Ltd. India 2 KEI Industries Ltd. India 3 Universal Cables Ltd. India 4 Brooks Cable Works India 5 Cords Cable Industries India 6 Delton Cables Ltd. India 7 Elkay Telelinks Ltd. India 8 Polycab Wires Pvt. Ltd. India 9 Radiant Cables Pvt. Ltd. India 10 Thermo Cables Ltd. India	PE.EP.043	✓ THERMO CABLES LIMITED ✓ CORDS CABLE INDUSTRIES LTD. ✓ KEI INDUSTRIES LIMITED ✓ DELTON CABLES LIMITED ✓ POLY-CAB WIRES PVT.LTD ✓ ELKAY TELELINKS LIMITED ✓ ASSOCIATED CABLES PVT.LTD. MIDDLE EAST SPECIALIZED CABLES CO. PARAMOUNT COMMUNICATIONS LTD SPECIAL CABLES PVT. LTD. SUNGG ELECTRICALS LTD LAPP INDIA PVT. LTD. LEONI CABLE SOLUTIONS (INDIA)	Yes Yes Yes Yes Yes No No No No No No No No	Six vendors are matching with CPCL list. CPCL is requested to comment/ approve additional vendors of BHEL PMD list.	
41b	THERMOCOUPLE EXTN. COMP. CABLES	Sl. No. 107, Page 23 of 26 of Instrumentation. 1 Associated Flexibles & Wires (P) Ltd. India 2 KEI Industries Ltd. India 3 Universal Cables Ltd. India 4 Brooks Cable Works India 5 Paramount Communications Ltd. 6 Reliance Engineers Ltd. 7 Thermo Cables Ltd. India.	PE.EP.043	✓ THERMO CABLES LIMITED ✓ KEI INDUSTRIES LIMITED ✓ PARAMOUNT COMMUNICATIONS LTD ✓ ASSOCIATED CABLES PVT.LTD. MIDDLE EAST SPECIALIZED CABLES CO. CORDS CABLE INDUSTRIES LTD. DELTON CABLES LIMITED SPECIAL CABLES PVT. LTD. POLY-CAB WIRES PVT.LTD SUNGG ELECTRICALS LTD ELKAY TELELINKS LIMITED LAPP INDIA PVT. LTD. LEONI CABLE SOLUTIONS (INDIA)	Yes Yes No No No No No No No No No No	Three vendors are matching with CPCL list. CPCL is requested to comment/ approve additional vendors of BHEL PMD list.	
42	FLOW ORIFICES	Sl. No. 3, Page 2 of 26 of Instrumentation. 1 Baliga Lighting Equipments (P) Ltd. India 2 General Instruments Consortium India 3 Guru Nanak Engg. Works India 4 Instrumentation Ltd. (Palghat) India 5 Micro Precision Products Pvt. Ltd. India 6 Minco Pvt Ltd India 7 JRU Control Pvt. Ltd. India 8 Deniel Measurements & Control Asia Pacific (Emerson Process Management Group Co) c/o Daniel Meas & Co. 9 FMC Measurement Solutions-UK (c/o FMC Technology Singapore Pte. Ltd.) 10 Petrol Valves srl 11 Pietro Fiorentini spa 12 TM Technomatic spa	PE.IN.528	✓ MICRO PRECISION PRODUCTS (P) LTD. ✓ INSTRUMENTATION LTD ✓ GENERAL INSTRUMENTS CONSORTIUM HYDRO-PNEUMATICS PRIVATE LIMITED DYNAPLUID VALVES AND FLOW CONTROLS SCIENTIFIC DEVICES (BOMBAY) PVT. LT STAR MECH CONTROLS (I) PVT. LTD. KUREKA INDUSTRIAL EQUIPMENTS ASIAN INDUSTRIAL VALVES AND	Yes Yes Yes No No No No No No	Only three vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached. "MINCO (INDIA) FLOW ELEMENTS" is a manufacturing unit of "General Instruments Consortium India"	
43	FLOW NOZZLES	Sl. No. 6, Page 3 of 26 of Instrumentation. 1. FMC Measurement Solution UK / Singapore 2. General Instruments Consortium India 3. Micro Precision Products Pvt Ltd India 4. Instrumentation Ltd. India 5. Star Mech Controls (P) Ltd. India 6. TM Technomatic SPA	PE.IN.527	✓ MICRO PRECISION PRODUCTS (P) LTD. ✓ INSTRUMENTATION LTD ✓ STAR MECH CONTROLS (I) PVT. LTD. ✓ MINCO (INDIA) FLOW ELEMENTS HYDRO-PNEUMATICS PRIVATE LIMITED DYNAPLUID VALVES AND FLOW CONTROLS ASIAN INDUSTRIAL VALVES AND	Yes Yes Yes Yes No No No	Only three vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached. "MINCO (INDIA) FLOW ELEMENTS" is a manufacturing unit of "General Instruments Consortium India"	
44	FLOW ANNUBAR	Sl. No. 7, Page 3 of 26 of Instrumentation. 1. Emerson Process Management India / Singapore 2. Midwest Instrument USA 3. Thermobrand Instr. USA 4. Torbar Flowmeters Ltd. USA 5. Veris Inc. USA 6. Micro Precision Products Pvt. Ltd. India 7. Star Mech Controls India Pvt. Ltd. India 8. TM Technomatic Spa	PE.IN.015	EMERSON PROCESS MANAGEMENT PVT.LTD ✓ MICRO PRECISION PRODUCTS (P) LTD. ✓ STAR MECH CONTROLS (I) PVT. LTD. DYNAPLUID VALVES AND FLOW CONTROLS GENERAL INSTRUMENTS CONSORTIUM	Yes Yes Yes No No	Only three vendors are matching with CPCL list. As per MOM dated 12.02.15, CPCL is requested to approve the additional vendors. Internal approval of BHEL BHEL PMD vendors attached.	



NOT APPLICABLE

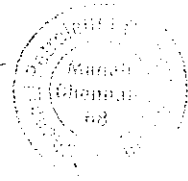
ANNEXURE - 1

Sl. No.	MIPP Item Description	Customer Vendor list / Sl. No. and page reference	PMD No	PE & SD PMD Vendor	Matching with CPCL	Items where 04 or more than 04 vendors are matching with CPCL (As per MOM dated 12.02.15)	Items where less than 04 vendors are matching with CPCL list. (As per MOM dated 12.02.15)
45	FIELD INSTRUMENTATION PACKAGE	Note: Individual Items in the package shall be procured from the CPCL / Jacobs approved vendor list only.	PE.IN.585	<input checked="" type="checkbox"/> EMERSON PROCESS MGT (I) PVT LTD <input checked="" type="checkbox"/> ABB LIMITED, HYD <input checked="" type="checkbox"/> YOKOGAWA INDIA LIMITED <input checked="" type="checkbox"/> ENDRESS + HAUSER (INDIA) PVT. LTD., <input checked="" type="checkbox"/> HONEYWELL AUTOMATION INDIA LIMITED	No No No No No		Not in CPCL vendor list. As per MOM dated 12.02.15, CPCL is requested to to approve the BHEL vendors. Internal approval of BHEL BHEL PMD vendors attached.
46	INSTRUMENT HOOK UP MATERIAL PACKAGE	Note: Individual Items in the package for inst. Tubing & Tube fittings shall be procured from the CPCL / Jacobs approved vendor list only.	PE.IN.580	<input checked="" type="checkbox"/> QUALITY FORGED FITTINGS <input checked="" type="checkbox"/> UNIQUE ENGINEERING ENTPS. P. LTD. <input checked="" type="checkbox"/> FRESHZINGER ENGINEERING <input checked="" type="checkbox"/> GULO DYNATECH INDUSTRIES, <input checked="" type="checkbox"/> G.I. PIPE FITTINGS PVT. LTD. <input checked="" type="checkbox"/> TRUE FORCE (PVT.) LTD. <input checked="" type="checkbox"/> TRUE FAB ENGINEER (P) LTD. <input checked="" type="checkbox"/> K. TUBES & FITTINGS PVT. LTD. <input checked="" type="checkbox"/> DYNALUID VALVES AND FLOW CONTROLS <input checked="" type="checkbox"/> PANAM ENGINEERS PVT. LTD.	No No No No No No No No No		Not in CPCL vendor list. As per MOM dated 12.02.15, CPCL is requested to to approve the BHEL vendors. Internal approval of BHEL BHEL PMD vendors attached.

M. R. ...



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ANNEXURE -1

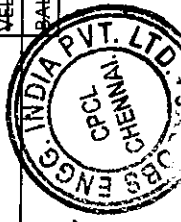
BHEL-Trichy-PCPS/Commercial

Customer / Consultant Approved Sub Vendor List for Major Bought Out Items

Project: CPCL Manali - 1x150TPH UB - Cust. No. 6021 Dt: 05.05.2015 Rev: 00

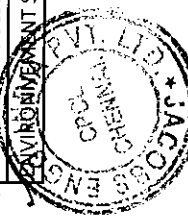
Mat Group	Material Group Description	Vendor Name	CITY	COUNTRY	Remarks
43ACT	ACTUATOR:ELECTRICAL-REGULATING	AUMA (INDIA) PRIVATE LIMITED, LIMITORQUE INDIA LTD., ROTORC CONTROLS LIMITED	BANGALORE FARIDABAD	INDIA INDIA UK	
43PWC	ACTUATOR:PNEUMATIC	WEIR BDK VALVES-A unit of Weir INSTRUMENTATION LTD., KEELTRON-CONTROLS, ROTEX MANUFACTURERS &	HUBLI KERALA AROR MUMBAI	INDIA INDIA INDIA INDIA	
43PWR	ACTUATOR:PNEUMATIC R	INSTRUMENTATION LTD., KEELTRON-CONTROLS, R-G-ELECTRO-PNEUMATICS-LTD	KERALA AROR AROR	INDIA INDIA UK	
95FCG	SDE:CABLE:GLAND/ADAP	BALIGA LIGHTING EQUIPMENTS PVT. COMET BRASS PRODUCT PROMPT ENGG WORKS, SGG-EXT TECH PVT. LTD., STANDARD METAL INDUSTRIES, K.S.INSTRUMENTS-PVT-LTD,	CHENNAI MUMBAI MUMBAI CHENNAI MUMBAI BANGALORE.	INDIA INDIA INDIA INDIA INDIA INDIA	
95FRJ	FRP JUNCTION BOX (FI	MANISHA-COMPOSITERS-PVT-LTD SUCHITRA INDUSTRIES ABB-LTD; COEN CO INC	PUNE. BANGALORE BANGALORE	INDIA INDIA INDIA	
95FSI	FLAME SCANNER ASSY(I	PURAG INDIA INSTRUMENTATION PVT. L EYES-COMBUSTION-SYSTEMS PVT.LTD HAMWORTHY-COMBUSTION ENGINEERING LT EUGENT-MARGONS (P)-LTD., DIKHA-CONTROL-ELEMENTS PVT.LTD., SRU CONTROL PVT. LTD., MOCON INDUSTRIES PVT.LTD., PLACKA INSTRUMENTS INDIA P.LTD., SAGA-INDUSTRIES SHAVO NORGREN (I) P.LTD., VELJAN-HYDRAIR-LIMITED, BALAJI-ELECTRO-CONTROLS-PVT-LTD,	BANGALORE GUJARAT DELHI BARODA CHENNAI HYDERABAD (A.P.) CHENNAI KATTOOR MUMBAI HYDERABAD BANGALORE	INDIA INDIA UK INDIA INDIA INDIA INDIA INDIA INDIA INDIA INDIA	
96AFS	AIRFILTER REGULATOR				

NOT APPLICABLE



M. Ramakrishna

Mat Group	Material Group Description	Vendor Name	CITY	COUNTRY	Remarks
96AJD	STARTER/CNTRL BOXES:	CHEMIN CONTROLS AND	PONDICHERY	INDIA	
		DYNASPEDE INTEGRATED SYSTEMS	CHENNAI	INDIA	
		BRAMMEN INDUSTRIES,	PUDUKOTTAI	INDIA	
		SADAS ELECTRICALS,	TRICHY	INDIA	
		SATISHA INSTRUMENTS(INDIA)P.LTD.,	CHENNAI	INDIA	
		VENKAT ELECTRONICS,	TRICHY	INDIA	
		AVR AUTOMATION ENGINEERING & PROJEC	BANGALORE	INDIA	
		FCG FLAME PROOF CONTROL GEARS	MUMBAI	INDIA	
		FLEXPRO ELECTRICALS PVT. LTD,	GUJARAT	INDIA	
		PROMPT ENGG WORKS,	MUMBAI	INDIA	
96AJF	SDE:BOX:FLAME PROOF	SCG Ex d TECH PVT. LTD.,	CHENNAI	INDIA	
		BHARAT HEAVY ELECTRICALS LTD.	TRICHY	INDIA	
		RAVIAN INSTRUMENTS PVT.LTD	MUMBAI	INDIA	
		SOLOTRAN		UK	
		FARWAY CORPORATION		USA	
		LYCO VALVES & CONTROLS INDIA PVT.LTD	CHENNAI	INDIA	
		CHEMTROLS INDUSTRIES LTD,	MUMBAI	INDIA	
		ENVIRONNEMENT S.A.INDIA PVT. LTD,	NAVI MUMBAI	INDIA	
		THERMO FISHER SCIENTIFIC INDIA	NAVI MUMBAI	INDIA	
		CHEMTROLS INDUSTRIES LTD,	MUMBAI	INDIA	
97FGD	FLUEGAS ANALYZERS(DI	DURAG INDIA INSTRUMENTATION PVT. L	BANGALORE	INDIA	
		LAND INSTRUMENTS INTL LTD		UK	
		PCVIE LTD.,		UK	
		ABB LTD.,	BANGALORE	INDIA	
		AMETEK PROCESS & INSTRUMENTS LTD		USA	
		ANALYSER INSTRUMENT CO.PVT.LTD.,	KOTA	INDIA	
		EMERSON PROCESS MANAGEMENT (INDIA)	India	INDIA	
		FORBES WATTS HALL PRIVATE LIMITED	PUNE. MAHARASTRA	INDIA	
		YOKOGAWA INDIA LIMITED,	CHENNAI	INDIA	
		ABB LTD.,	BANGALORE	INDIA	
97FGK	ANALYSERS(FUEGAS)SM	ANALYSER INSTRUMENT CO.PVT.LTD.,	KOTA	INDIA	
		CHEMTROLS INDUSTRIES LTD,	MUMBAI	INDIA	
		EMERSON PROCESS MANAGEMENT (INDIA)	India	INDIA	
		FORBES WATTS HALL PRIVATE LIMITED	PUNE. MAHARASTRA	INDIA	
		YOKOGAWA INDIA LIMITED,	CHENNAI	INDIA	
		ABB LTD.,	BANGALORE	INDIA	
		ANALYSER INSTRUMENT CO.PVT.LTD.,	KOTA	INDIA	
		CHEMTROLS INDUSTRIES LTD,	MUMBAI	INDIA	
		EMERSON PROCESS MANAGEMENT (INDIA)	India	INDIA	
		ENVIRONNEMENT S.A.INDIA PVT. LTD,	NAVI MUMBAI	INDIA	
97FGS	ANALYSERS (FLUEGAS)	CHEMIN CONTROLS AND	PONDICHERY	INDIA	
		DYNASPEDE INTEGRATED SYSTEMS	CHENNAI	INDIA	
		BRAMMEN INDUSTRIES,	PUDUKOTTAI	INDIA	
		SADAS ELECTRICALS,	TRICHY	INDIA	
		SATISHA INSTRUMENTS(INDIA)P.LTD.,	CHENNAI	INDIA	
		VENKAT ELECTRONICS,	TRICHY	INDIA	
		AVR AUTOMATION ENGINEERING & PROJEC	BANGALORE	INDIA	
		FCG FLAME PROOF CONTROL GEARS	MUMBAI	INDIA	
		FLEXPRO ELECTRICALS PVT. LTD,	GUJARAT	INDIA	
		PROMPT ENGG WORKS,	MUMBAI	INDIA	

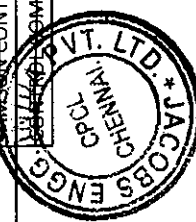


M. Nagaraj Kumar

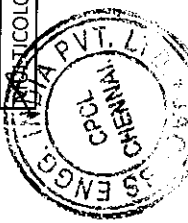
Mat Group	Material Group Description	Vendor Name	CITY	COUNTRY	Remarks
		HORIBA LTD.,		JAPAN	
		THERMO FISHER SCIENTIFIC INDIA	NAVI MUMBAI	INDIA	
		YOKOGAWA INDIA LIMITED,	CHENNAI	INDIA	
		K.N. INSTRUMENTS PVT. LIMITED,	KOLKATA	INDIA	
97IDD	GAUGES:DP GAUGES	GENERAL INSTRUMENTS CONSORTIUM	MUMBAI	INDIA	
		H GURU INSTRUMENTS(SI) P.LTD.,	BANGALORE	INDIA	
		SWITZER PROCESS INSTRUMENTS	CHENNAI	INDIA	
		WIKA INSTRUMENTS INDIA PVT.LTD	PUNE	INDIA	
		K.N. INSTRUMENTS PVT. LIMITED,	KOLKATA	INDIA	
		BAUMER TECHNOLOGIES INDIA PVT.LTD,	VAPI	INDIA	
		GENERAL INSTRUMENTS CONSORTIUM	MUMBAI	INDIA	
97IDP	GAUGES:PRESSURE GAUG	GOA THERMOSTATIC INSTRUMENTS PVT.L	GOA	INDIA	
		H GURU INSTRUMENTS(SI) P.LTD.,	BANGALORE	INDIA	
		MANOMETER (INDIA) PVT.LTD.,	CHENNAI	INDIA	
		WIKA INSTRUMENTS INDIA PVT.LTD	PUNE	INDIA	
		K.N. INSTRUMENTS PVT. LIMITED,	KOLKATA	INDIA	
		BAUMER TECHNOLOGIES INDIA PVT.LTD,	VAPI	INDIA	
		GENERAL INSTRUMENTS CONSORTIUM	MUMBAI	INDIA	
97IDT	GAUGES:TEMPERATURE G	GOA INSTRUMENT INDUSTRIES PVT.LTD.	GOA	INDIA	
		GOA THERMOSTATIC INSTRUMENTS PVT.L	GOA	INDIA	
		H GURU INSTRUMENTS(SI) P.LTD.,	BANGALORE	INDIA	
		ABB LIMITED,	CHENNAI.	INDIA	
		EMERSON PROCESS MANAGEMENT (INDIA)	India	INDIA	
		ENDRESS + HAUSER (INDIA) PVT.LTD.,	MUMBAI	INDIA	
		GE INDIA INDUSTRIAL PVT. LTD.,	BANGALORE	INDIA	
		YOKOGAWA INDIA LIMITED,	CHENNAI	INDIA	
		AETOP INDUSTRIES-ETB.,	India	INDIA	
		DETRIV INSTRUMENTATION &	MUMBAI	INDIA	
		EMERSON PROCESS MANAGEMENT (I) PVT	MUMBAI	INDIA	
		EXOTHERM INSTRUMENTS,	MUMBAI	INDIA	
		GENERAL INSTRUMENTS CONSORTIUM,	CHENNAI	INDIA	
		OKAZAKI MANUFACTURING COMPANY	KOBE 651-0087.	INDIA	
		HYRO ELECTRIC CABLES AND	GOA	INDIA	
97MTC	SDE:MTM.THERMOCOUPLE	TECHNO INSTRUMENTS.	AHMEDABAD	INDIA	

M. Ramani

Project: CPCL Manali - 1x150TPH UB - Cust. No. 6021			Dt: 05.05.2015		Rev: 00
Mat Group	Material Group Description	Vendor Name	CITY	COUNTRY	Remarks
970PA	ORIFICE PLATE ASSY	ZEMPENS INSTRUMENTS (I) PVT.LTD.,	UDAIPUR	INDIA	
		VAMANI INDUSTRIES LIMITED	OSAKA.	JAPAN	
		ASIAN INDUSTRIAL VALVES AND INSTRUM	CHENNAI	INDIA	
		ENGINEERING SPECIALTIES PVT LTD.,	KOLKATA	INDIA	
		GENERAL INSTRUMENTS CONSORTIUM,	CHENNAI	INDIA	
		AA FLOW ELEMENTS PVT.LTD.,	CHENNAI	INDIA	
		INSTRUMENTATION LTD.,	KERALA	INDIA	
		MICRO PRECISION PRODUCTS (P) LTD,	FARIDABAD	INDIA	
		BARAT BIJLEE LIMITED,	CHENNAI	INDIA	
		CROMPTON GREAVES LIMITED,	CHENNAI	INDIA	
AYFHM	MOTORS:L.T.MOTORS:WP	HEM INDUSTRIES,	MUMBAI	INDIA	
		KAROSKAR ELECTRIC CO.LTD.	CHENNAI	INDIA	
		LAXMI HYDRAULICS PVT.LTD.,	SHOLAPUR	INDIA	
		MARATHON ELECTRIC MOTORS (INDIA) LT	CHENNAI	INDIA	
		PRECISION ENGINEERING WORKS,	MUMBAI	INDIA	
		ARCA REGIER GMBH		Germany	
		CONTROL COMPONENT INDIA PVT LTD	BANGALORE	INDIA	
		CONTROL COMPONENTS INC		USA.	
		DRESSER PRODUCTS INDUSTRIES S.A.'S		FRANCE.	
		DRESSER VALVE INDIA PRIVATE LTD.,	COIMBATORE	INDIA	
21SBV	VALVE:SOOT BLOWER PR	EMERSON PROCESS MANAGEMENT CHENNAI	CHENNAI	INDIA	
		HOLTER-REGELARMATUREN GMBH		GERMANY	
		INSTRUMENTATION LTD.,	KERALA	INDIA	
		KOSO INDIA PRIVATE LIMITED.	NASHIK.	INDIA	
		MIL CONTROLS LIMITED	THIRISSUR DIST,	INDIA	
		MIHON KOSO CO.LTD.	TOKYO - 103-0027	JAPAN	
		SEVERN-FLUCCON INDIA (P) LTD.,	CHENNAI.	INDIA	
		DEMEBA VALVES LTD.,	THANE	INDIA	
		DRESSER VALVE INDIA PRIVATE LTD.,	COIMBATORE	INDIA	
		INSTRUMENTATION LTD.,	KERALA	INDIA	
24CBV	VALVE:CONTROL BLOCK/	MIL CONTROLS LIMITED	THIRISSUR DIST,	INDIA	
		R.K.CONTROL INSTRUMENTS PVT.LTD	THANE	INDIA	
		EMERSON CONTROLS PRIVATE LIMITED	PUNE	INDIA	
		CONTROL COMPONENT INDIA PVT LTD	BANGALORE	INDIA	



Mat Group	Material Group Description	Vendor Name	CITY	COUNTRY	Remarks
24CHV	CONTROL VALVE :HP ALONG WITH ACCESSOR	CONTROL COMPONENTS INC		USA.	
		CONTROL COMPONENTS INC AG		SWITZERLAND.	
		RESSER-PRODUITS INDUSTRIELS S.A.S		FRANCE.	
		RESSER VALVE INDIA PRIVATE LTD.,	COIMBATORE	INDIA	
		FLOWERVE INDIA CONTROLS PVT.LTD.,	BANGALORE	INDIA	
		HOLLER-REGELARMATUREN GMBH		GERMANY	
		INSTRUMENTATION LTD.,	KERALA	INDIA	
		KGSO-INDIA PRIVATE LIMITED-	NASHIK.	INDIA	
		MIL CONTROLS LIMITED	THIRISSUR DIST,	INDIA	
		MIHON KOSO CO LTD.	TOKYO - 103-0027	JAPAN	
		SEVERN-GLOCON INDIA (P) LTD,	CHENNAI.	INDIA	
		SPX FLOW TECHNOLOGY (INDIA) PVT LTD,	AHEMEDABAD	INDIA	
		ANKIT ELECTROGRATING	RAIPUR.	INDIA	
		BHOLARAM STEELS PVT.LTD.,	PATNA	INDIA	
		CELLCOM TELESERVICES PVT.LTD	SIKANDRABAD.	INDIA	
33EFG	ELECTROFORGED FLOOR	GALFAN ENGINEERS PRIVATE LTD.,	CHENNAI	INDIA	
		GREATWELD ENGINEERING PVT LTD.	PUNE	INDIA	
		INDIANA GRATINGS PVT.LTD.,	MUMBAI	INDIA	
		KANADE ANAND UDYOG PVT. LTD.,	MUMBAI	INDIA	
		PIVAX STEEL INDUSTRIES PVT.LTD	KOLKATA.	INDIA	
		PREMIER POWER PRODUCTS (CALCUTTA)	KOLKATA	INDIA	
		VINFAB ENGINEERS INDIA PVT LTD,	THANE,	INDIA	
		XINXING DUCTILE IRON PIPES CO LTD.	BEIJING 100020 PRC.	CHINA	
		ABS REFRACATORIES PVT.LTD.,	KATNI	INDIA	
		BHASKAR REFRACATORIES & SW PIPES P.LTD	FARIDABAD	INDIA	
		CALDERYS INDIA REFRACATORIES LTD.,	CHENNAI	INDIA	
		CARBORUNDUM UNIVERSAL LTD.,	CHENNAI	INDIA	
		DALMIA REFRACATORIES LIMITED	DALMIAPURAM	INDIA	
		INDUSTRIAL ASSOCIATES,	KOLKATA	INDIA	
		PREMIER REFRACATORIES OF INDIA-	KATNI	INDIA	
38MPS	METAPOLY SHEETS FOR	BANSAL ROOFING PRODUCTS LIMITED	VADDARA. GUJARAT. INDIA.	INDIA	
		GOVINDARAJA MUDALIAR SONS (P)LTD.,	CHENNAI	INDIA	
		METCO ROOF PRIVATE LIMITED,	PUDUCHERY	INDIA	
		INDIA COLOR STEELS (INDIA) PVT.LTD.	NEW DELHI.	INDIA	



M. R. K. M. S.

Mat Group	Material Group Description	Vendor Name	CITY	COUNTRY	Remarks
		NATIONAL STEEL & AGRO INDUSTRIES	INDORE	INDIA	
41HEA	HEA IGNITOR ASSY	DURAG INDIA INSTRUMENTATION PVT. L FIVES COMBUSTION SYSTEMS PVT. LTD UNISON INDUSTRIES	BANGALORE GUJARAT	INDIA INDIA	
41SOV	SDM:SOLENOID VALVES	ASCO NUMATICS (INDIA) PRIVATE LTD., ROTEX AUTOMATION LIMITED, VKE VALVES INDUSTRIES P.LTD.	CHENNAI VADODARA (GUJARAT) MUMBAI	INDIA INDIA INDIA	
42BLS	VALVE:BALL VALVE(FIR	DEVAL-FLOW-CONTROLS PVT.LTD., DEMBA VALVES LTD., MICROFINISH VALVES PRIVATE LIMITED UNIFLOW	CHENNAI THANE HUBLI CHENNAI	INDIA INDIA INDIA INDIA	
45FHG	HOSES:SS FLEXIBLE HO	VIRGO ENGINEERS LTD., WEIR BDK VALVES-A unit of Weir ALLFLEX ENGINEERS BENGAL INDUSTRIES PVT.LTD., HYDRO-PNEUMATIC ACCESSORIES, INSAPLEX	PUNE HUBLI BARODA FARIDABAD CHENNAI CHENNAI	INDIA INDIA INDIA INDIA INDIA INDIA	
99HEE	HANDLING EQUIPMENT:E	MADRAS HYDRAULIC HOSE PVT LTD ARMSLE MHE PVT LTD CONSOLIDATED HOISTS PVT LIMITED CLUBBILT ENGINEERS PVT.LTD, GRIP ENGINEERS PVT.LTD, LEAP LIFTING MACHINES PVT.LTD MEGA CRANES INDIA PVT LTD	BANGALORE PUNE PUNE MEDCHAL NEW DELHI COIMBATORE.	INDIA INDIA INDIA INDIA INDIA INDIA	
AYDUP	STRAINERS:DUPLICATE	POWER BUILD LTD., REVA INDUSTRIES LTD., TECHNO INDUSTRIES, UNIVERSAL HOIST Q-FABRIK FITERATION ENGINEERS INDIA PVT LTD JAYARAM ENGG.WORKS V R POWERGEN EQUIPMENTZ,	GUJARAT STATE FARIDABAD AHMEDABAD MUMBAI MUMBAI TIRUCHIRAPALLI COIMBATORE	INDIA INDIA INDIA INDIA INDIA INDIA INDIA	

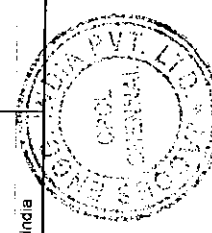
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ANNEXURE-1

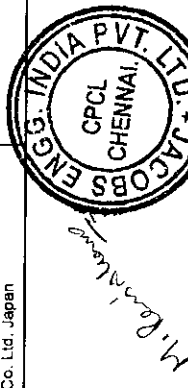
NOT APPLICABLE

Mat Group	Material Group Description	Customer (CPL) approved list	Reference/ Remarks	BHEL/Piping Centre Vendor List	Vendor common in customer appd list & BHEL/PC PMD vendor list	CITY	COUNTRY	Customer (CPL) Remarks Approved yes / no
8ITEG	TEMPERATURE GAUGE	Badothem Process Instruments B.V. India Bourdon Haenni S.A. British Rototherm Co. Ltd. Dresser Inc. (Go. Dresser Measurement) Nagano Keiki Seisakusho Ltd. Precision (Ashcroft)	7 VENDORS APPD.	ASHCROFF INDIA PVT. LTD. BAUMER TECHNOLOGIES INDIA PVT. LTD. GOA THERMOSTATIC INSTRUMENTS PVT. LTD. GURU INSTRUMENTS(SI) P. LTD.		GUJARAT VAPI GOA BANGALORE		
9			4 VENDORS APPD.	ASHCROFF INDIA PVT. LTD. BAUMER TECHNOLOGIES INDIA PVT. LTD. BLIDENBERG GALILEO CO. LTD. FORBES MARSHALL PRIVATE LIMITED GOA INSTRUMENT INDUSTRIES PVT. LTD. GOA THERMOSTATIC INSTRUMENTS PVT. LTD.		GUJARAT VAPI PUNE, MAHARASTRA GOA GOA		
10	FLOW NOZZLE ASSEMBLY	FMC Measurement Solution UK / Singapore General Instruments Consortium India Micro Process Instruments B.V. Sasvegga Instruments Pvt. Ltd. India T.M. Instrumentation Pvt. Ltd. India	Page 111 point 6 4 VENDORS APPD.	INSTRUMENTATION LTD. GENERAL INSTRUMENTS PVT. LTD. TECHNOMATIC ASIAN INDUSTRIAL VALVES AND INSTRUM BOBB & BELTHER-HEINRICH-MESSTECHNIK HYDRO-RHEUMATICS PVT. LTD. MINCO (INDIA) PVT. LTD. SEIKO-FLOW-CONTROL GMBH CHEMTRONICS SYSTEMS LTD. LEVCOR INSTRUMENTS PVT. LIMITED ASIAN INDUSTRIAL VALVES AND INSTRUM		CHENNAI GOA GOA		
11	LEVEL SWITCHES	Chemtronics Engineering Ltd India Endress + Hauser Japan Co. Ltd India Levcor Instruments Pvt Ltd India Magnetro International N.V India Mobrey Ltd Sbern Pvt Ltd	Page 132 point 112 2 VENDORS APPD.	CHEMTRONICS SYSTEMS LTD. LEVCOR INSTRUMENTS PVT. LIMITED ASIAN INDUSTRIAL VALVES AND INSTRUM OK INSTRUMENTS PVT. LTD. FLOWSTAR ENGINEERING PVT LTD GENERAL INSTRUMENTS CONSORTIUM, SBERN PVT LTD SIGMA INSTRUMENTS COMPANY VALIOMAT & INSTRUMENTS P. LTD.		INDIA INDIA CHENNAI KOLKATA FARIDABAD CHENNAI PUNE MUMBAI NEW DELHI		
12	FITTINGS-ALLOY STEEL	CSA Fittings India EBY Industries India M.S. Fitting Mfg Co Pvt. Ltd Sidharth & Gautam Engineers India	Page 75-77, Point 62, 72.77	ALLIED INTERNATIONAL SRL EFTEN ENGINEERING PVT. LTD. GUJARAT INFRAPPES PVT. LTD. INFRA SPA		ITALY SRIPERUMBUDUR BARODA ITALY		



ANNEXURE - 1

Sl no	Mat Group	Material Group Description	Customer (CPCL) approved list	Reference/Remarks	BHEL/Piping Centre Vendor list	Vendor common in customer appd list & BHEL/PC PMD vendor list	CITY	COUNTRY	Customer (CPCL) Remarks Approved yes / no
13	FITCS	FITTINGS-CARBON STEE	Tube Products Incorporate India	<p>5</p> <p>VENDORS APPD</p> <p>SINCE TONNAGE INVOLVED IS LESS & STOCK FITTING CAN BE USED IF MORE REQUIRED INDEGENIOUS VENDORS ARE APPROVED</p> <p>4</p> <p>VENDORS APPD</p> <p>SINCE TONNAGE INVOLVED IS LESS & STOCK FITTING CAN BE USED IF MORE REQUIRED INDEGENIOUS VENDORS ARE APPROVED</p>	<p>DEE DEVELOPMENT ENGINEERS LTD.,</p> <p>LEIT-TECH INDUSTRIES,</p> <p>FLASH-FORGE PVT LTD.,</p> <p>FUXIN HUATONG PIPING CO LTD</p> <p>IGAWARA INDL-SERVICE&TRADING PTE</p> <p>INDUSTRIA-MEGGANICA-BAGSHLUIG&S</p> <p>K.S. PIPE FITTINGS PVT LTD</p> <p>K.S. PIPE FITTINGS PVT. LTD.</p> <p>PETROL BACCARD-SPA</p> <p>PRESHZINGER-ENGINEERING CO.</p> <p>SGG ENGINEERS (P) LTD</p> <p>TUBE BEND (CALCUTTA) PVT LTD</p> <p>UPPIPE FITTINGS PVT LTD.,</p> <p>UNITECH MACHINES LTD.,</p> <p>VALVETECH-SPA-TECHNOFORGE DIVN.</p>	<p>ALLEN INTERNATIONAL</p> <p>BEIJING INTERNATIONAL</p> <p>CHINA PIPE INDUSTRIES PVT LTD</p> <p>SHANGHAI PIPE INDUSTRIES PVT LTD</p> <p>TECHNOCORPORATION</p>	<p>KOREA</p> <p>HARYANA</p> <p>THANE.</p> <p>VISAKAPATNAM</p> <p>LIAONING PROVINCE.</p> <p>SINGAPORE</p> <p>ITALY</p> <p>FARIDABAD.</p> <p>ALWAR</p> <p>ITALY</p> <p>HYDERABAD</p> <p>FARIDABAD</p> <p>KOLKATA</p> <p>HYDERABAD</p> <p>SAHARANPUR (UP)</p> <p>ITALY</p>	<p>South Korea</p> <p>India</p> <p>India</p> <p>India</p> <p>China</p> <p>Singapore</p> <p>Italy</p> <p>India</p> <p>India</p> <p>India</p> <p>India</p> <p>India</p> <p>India</p> <p>Italy</p>	
			Teekay Tubes Pvt. Ltd. India						
			Sivananda Pipe & Fittings Ltd. India						
			AWJ Sangyo K K Thailand						
			Erne Fittings GmbH Austria/Europe						
			Flow Line Divn. Markovitz Enterprises Inc USA						
			Geminox SRL Italy						
			IBF Spa Italy						
			Munro & Miller Fittings Ltd. UK						
			Nippon Bend Co. Ltd. Japan						
			Raccorlubi Italy						
			Sumitomo Metal Ind. Ltd. Japan						
			Sungkwang Bend Co. Ltd. South Korea						
Taylor Forge Stainless USA									
Tecnoforge SPA Italy									
TK Corporation Korea									
Weir Materials & Foundries UK									
Wihl Schulz GmbH Germany									
Virgilio Cena & Figli SPA Italy									
Anup Engineering Limited India									
EBY Industries India									
CSA Fittings India									
Energy Engineering Pvt. Ltd. India									
Global Fittings Pvt. Ltd. India									
M S Fittings Mfg. Co. Pvt. Ltd. India									
Sidharth & Gautam Engineers India									
Teekay Tubes Pvt. Ltd. India									
Tube Products Incorporate India									
Sivanandha Pipe & Fittings Ltd.									
R N Gupta & Co. Ltd.									
Leader Valves Ltd. India									
Alind International SRL Italy									
AWJ Sangyo K K Thailand									
Erne Fittings GmbH Austria/Europe									
Flow Line Divn. Markovitz Enterprises Inc USA									
Geminox SRL Italy									
IBF Spa Italy									
Munro & Miller Fittings Ltd. UK									
Nippon Bend Co. Ltd. Japan									



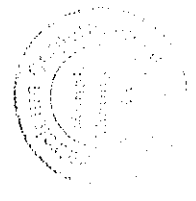
Sl no	Mat Group	Material Group Description	Customer (CPCL) approved list	Reference/Remarks	BHEL/Piping Centre Vendor List	Vendor common in customer appd list & BHEL/PC PMD vendor list	CITY	COUNTRY	Customer (CPCL) Remarks Approved Yes / no
16	FITIS	FITTINGS - IS:1239	Shree Ganesh Forgings Ltd. India Uma Shankar Khandelwal & Co. India	Page 76, Point 73 0	INDL PRODUCT MARKETING CORPORATION SKY ENGG. ENTERPRISE SKY FORGE LTD.		CHENNAI HOWRAH FARIDABAD HYDERABAD	India India India India	
17	FITSS	FITTINGS- STAINLESS S	EBY Industries India Gujarat Infrapipes Pvt. Ltd. India M S Fittings Mfg. Co. Pvt. Ltd. India Sidharth & Gautam Engineers India Teekay Tubes Pvt. Ltd. India Tube Products Incorporate CSA Fittings India	VENDORS APPD. Point 64, 69, 71 0 VENDORS APPD. Point 64, 69, 71	PIPE FITTINGS PVT. LTD. DEE DEVELOPMENT ENGINEERS LTD. FLASH FORGE PVT. LTD. GUJARAT INFRAPIPES PVT. LTD. P.K. TUBES & FITTINGS PVT. LTD. BRESHZINGER ENGINEERING CO. S&G ENGINEERS (P) LTD PIPE BEND (CALCUTTA) PVT LTD PIPE FITTINGS PVT. LTD. UNITECH MACHINES LTD.		HARYANA VISAKAPATNAM BARODA ALWAR HYDERABAD FARIDABAD KOLKATA HYDERABAD SAHARANPUR (UP)	India India India India India India India India India India	
18	FITSW	FITTINGS- SOCKET WELD	Anup Engineering Limited India EBY Industries India CSA Fittings India Eften Engineering Pvt. Ltd. India Gujarat Infrapipes Pvt. Ltd. India M S Fittings Mfg. Co. Pvt. Ltd. India Allied International SRL Italy Awaji Sangyo K K Thailand Erne Fittings GmbH Austria/Europe Flow Line Divn. Markoviz Enterprises Inc USA Geminox SRL Italy IBF Spa Italy Munro & Miller Fittings Ltd. UK Nippon Bend Co. Ltd. Japan Raccortubi Italy Sumitomo Metal Ind. Ltd. Japan Sungkwang Bend Co. Ltd. South Korea Taylor Forge Stainless USA Tecnoforge SPA Italy TK Corporation Korea Weir Materials & Foundries UK Withl Schuiz GmbH Germany Virgilio Cena & Figlii SPA Italy	Page 75, 77, Point 62, 72, 77 0 VENDORS APPD	DEE DEVELOPMENT ENGINEERS LTD. LEITEN ENGINEERING PVT. LTD. FLASH FORGE PVT. LTD. MARKART FORGINGS (P) LTD. S&G ENGINEERS (P) LTD PIPE BEND (CALCUTTA) PVT LTD PIPE FITTINGS PVT LTD.		HARYANA SRIPERUMBUDUR VISAKAPATNAM VIRALIMALAI FARIDABAD KOLKATA HYDERABAD	India India India India India India India India India India India	
19	PCWSA	PIPE CAP STUB(AS)	Anup Engineering Ltd. India ICEM Engineering Company Ltd. India Teekay Tubes Pvt. Ltd. India	Page 77, Point 75	DEE DEVELOPMENT ENGINEERS LTD. FLASH FORGE PVT. LTD. S&G ENGINEERS (P) LTD		HARYANA VISAKAPATNAM FARIDABAD	India India India	

M. D. ...



Sl no	Mat Group	Material Group Description	Customer (CPCL) approved list	Reference/ Remarks	BHEL/Piping Centre Vendor List	Vendor common in customer appd list & BHEL/PC PMD vendor list	CITY	COUNTRY	Customer (CPCL) Remarks Approved yes / no
24	80ATP	AIR TRAP		Not available in customer approved list	ARMSTRONG INTERNATIONAL PVT. LTD. ASIAN INDUSTRIAL VALVES AND INSTRUM PENNANT ENGINEERING PVT.LTD. SPRAX MARSHALL LTD.		CHENGALPATTU. CHENNAI MAHARASHTRA PUNE	India India India India	
25	81SLC	SEALING COMPOUND		Not available in customer approved list	AGROMORE PVT.LTD. SRI RAM ENTERPRISES SRT LTD.		BANGALORE CHENNAI CHENNAI	India India India	
26	81TTW	THERMOWELL		Not available in customer approved list	ASIAN INDUSTRIAL VALVES AND INSTRUM DETRY INSTRUMENTATION & GENERAL INSTRUMENTS CONSORTIUM GOA INSTRUMENT INDUSTRIES PVT.LTD. PYRO ELECTRIC INSTRUMENTS GOA P.LTD TEMPSENS INSTRUMENTS (I) PVT.LTD.		CHENNAI MUMBAI CHENNAI GOA GOA UDAIPUR	India India India India India India	
27	PCASH	ALUMINIUM SHEET-PLA		Not available in customer approved list	SHARAT ALUMINIUM CO.LTD. GUANGZHOU GUANGJI TRADE DEVELOPMENT HEAVY FOUNDRY BENTON INDUSTRY CO.LT HINDALCO INDUSTRIES LTD. HINDALCO ALUMINIUM LIMITED MANGALOK LIMITED NATIONAL ALUMINIUM CO. LTD. PARAGON INDUSTRIES LTD.		BANGALORE ZHENGGHOU CITY, HENA CHENNAI BANGALORE HALDA CHENNAI NEWMUMBAI DELHI	India China India India India India India	

NOTE: FOR FOLLOWING ITEM VENDOR APPROVED FOR UTILITY BOILER SHALL BE USED FOR GT+HRSG
1. PIPES, 2. PIPE FITTINGS, 3. VALVES (OTHER THAN MENTIONED ABOVE), 4 GASKETS, ETC.



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M. G. ...

BHARAT HEAVY ELECTRICALS LIMITED
(A GOVT. OF INDIA UNDERTAKING)
PIPING CENTRE, 80, G. N. CHETTY ROAD, CHENNAI - 600 017
VENDOR LIST FOR SUBCONTRACTORS WITH VENDOR MATERIAL (ACF)

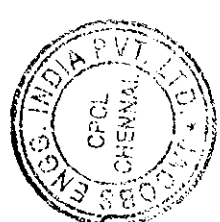
CPCL MANALI GTG COGEN PLANT/ CUSTOMER NO : Utility Boiler - 7252

Dated :23.02.15

PROJECT	CPCL MANALI GTG COGEN PLANT/ CUSTOMER NO : Utility Boiler - 7252		Dated :23.02.15				
Sino	Material Group	Mat Group Description	No.	Vendor Name	CITY1	Remarks	Customer (CPCL) Remarks Approved Yes / no
1	IBRAS	IBR-ALLOY STEEL PIPING	1	ABE-ENGG-INTERNATIONAL PVT LTD	MANGALORE.		
			2	BABY-ENGINEERING PVT LTD	TRICHY.		
			3	BEND JOINTS PVT LIMITED	BHOPAL		
			4	DEE DEVELOPMENT ENGINEERS LTD.,	HARYANA		
			5	ENESTEE ENGINEERING LTD	NAGPUR.		
			6	FLASH FORGE PVT LTD.,	VISAKAPATNAM		
			7	GUJARAT INFRAPIPES PVT. LTD.,	BARODA		
			8	LARSEN & TOUBRO LTD	SURAT.		
			9	P-K-TUBES & FITTINGS PVT. LTD.,	ALWAR		
			10	PRECISION ENGINEERING CORPORATION	NOIDA.		
			11	S&G ENGINEERS PRIVATE LIMITED	BHAGOLA		
			12	SHIVAM HI TECH STEES PVT LTD	DURG		
			13	TOOL-FAB-ENGINEERING INDUSTRIES	TIRUCHIRAPPALLI		
			14	TUBE BEND (CALCUTTA) PVT LTD	KOLKATA		
			15	UNITECH MACHINES LIMITED	NEW DELHI		
			16	VEESONS ENERGY SYSTEMS PVT. LTD.	TIRUCHIRAPPALLI		
			2	IBRCS	IBR-CARBON STEEL PIPING	1	ABE-ENGG-INTERNATIONAL PVT LTD
2	BABY-ENGINEERING PVT. LTD	TRICHY.					
3	BEND JOINTS PVT LIMITED	BHOPAL					
4	DEE DEVELOPMENT ENGINEERS LTD.,	HARYANA					
5	ENESTEE ENGINEERING LTD	NAGPUR.					
6	FLASH FORGE PVT LTD.,	VISAKAPATNAM					
7	GUJARAT INFRAPIPES PVT. LTD.,	BARODA					
8	LARSEN & TOUBRO LTD	SURAT.					
9	P-K-TUBES & FITTINGS PVT. LTD.,	ALWAR					
10	PRECISION ENGINEERING CORPORATION	NOIDA.					
11	S&G ENGINEERS PRIVATE LIMITED	BHAGOLA					
12	SEAMT INDUSTRIES LIMITED,	NAGPUR					
13	SHIVAM HI TECH STEES PVT LTD	DURG					
14	TOOL-FAB-ENGINEERING INDUSTRIES	TIRUCHIRAPPALLI					
15	TUBE BEND (CALCUTTA) PVT LTD	KOLKATA					
16	UNITECH MACHINES LIMITED	NEW DELHI					
17	VEESONS ENERGY SYSTEMS PVT. LTD.	TIRUCHIRAPPALLI					

Not in customer Appd list

Not in customer Appd list


 M. Ramkumar
 Director

BHARAT HEAVY ELECTRICALS LIMITED
 (A GOVT. OF INDIA UNDERTAKING)
 PIPING CENTRE, 80, G. N. CHETTY ROAD, CHENNAI - 600 017
VENDOR LIST FOR SUBCONTRACTORS WITH VENDOR MATERIAL (ACF)

PROJECT		CPCL MANALI GTG COGEN PLANT/ CUSTOMER NO : Utility Boiler -7252				Dated :23.02.15	
Sino	Material Group	Mat Group Description	No.	Vendor Name	CITY1	Remarks	Customer (CPCL) Remarks Approved yes/no
3	TANKI	IBR TANKS	1	ABE ENGG INTERNATIONAL PVT LTD	MANGALORE.		
			2	BEND JOINTS PVT LIMITED	BHOPAL		
			3	BHARAT ENGG ENTERPRISES	RANIPET		
			4	EMESTEE ENGINEERING LTD	NAGPUR.		
			5	MAS STEEL FABRICATORS,	RANIPET		
			6	MEERAKSHI ASSOCIATES PVT LTD.	GREATER NOIDA		
			7	NEW-HEEL INDUSTRIAL EQPTS PVT LTD	VADODARA.		
			8	NOVATECH PROJECTS INDIA PVT LTD	THANE (E)		Not in customer Appd list
			9	S&G ENGINEERS PRIVATE LIMITED	BHAGOLA		
			10	SAKTHI HI-TECH CONSTRM. (P) LTD	CHENNAI		
			11	SEAM INDUSTRIES LIMITED,	NAGPUR		
			12	SHIVAM HI TECH STEES PVT LTD	DURG		
			13	SOUTHERN HEAVY ENGINEERING PVT. LTD	SRIPERUMBUDHUR		
			14	UNITECH MACHINES LIMITED	NEW DELHI		
			1	ABE ENGG INTERNATIONAL PVT LTD	MANGALORE.		
			2	BABY ENGINEERING PVT. LTD	TRICHY.		
			3	BEND JOINTS PVT LIMITED	BHOPAL		
			4	BHARAT ENGINEERING CORPORATION LTD	DURG CG DIST.		
			5	DEE DEVELOPMENT ENGINEERS LTD.,	HARYANA		
			6	EMESTEE ENGINEERING LTD	NAGPUR.		
			7	FLASH FORG PVT LTD.,	VISAKAPATNAM		
			8	GUJARAT INFRAPIPES PVT. LTD.,	BARODA		
			9	IMECO LIMITED,	KHARAGPUR		
			10	LARSEN & TOUBRO LTD	SURAT.		
			11	P.K.TUBES & FITTINGS PVT. LTD,	ALWAR		
12	PERFECT INTERNATIONAL FABRICATORS (P) L	TRICHY					
13	POWER PIPING CO.	MANDAYUR.		Not in customer Appd list			
14	PRECISION ENGINEERING CORPORATION	NOIDA.					
15	S&G ENGINEERS PRIVATE LIMITED	BHAGOLA					
16	SAKTHI HI-TECH CONSTRM. (P) LTD	CHENNAI					
17	SEAM INDUSTRIES LIMITED,	NAGPUR					
18	SHIVAM HI TECH STEES PVT LTD	DURG					
19	TOOL FAB ENGINEERING INDUSTRIES	TIRUCHIRAPPALLI					
20	TRIVITECH ENGINEERING PVT.LTD.,	MEDAK DIST.					
21	TUBE BEND (CALCUTTA) PVT LTD	KOLKATA					
22	UI PIPE FITTINGS PVT LTD.,	HYDERABAD					
23	UNITECH MACHINES LIMITED	NEW DELHI					
24	V3 MEGA CORP INTERNATIONAL PVT.LTD.	THIRUVALLUR					
25	VEESONS ENERGY SYSTEMS PVT. LTD.	TIRUCHIRAPPALLI					


 T. G. ...
 Page 2 of 3

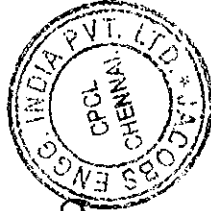
ANNE XURE - 1

BHARAT HEAVY ELECTRICALS LIMITED
 (A GOVT. OF INDIA UNDERTAKING)
 PIPING CENTRE, 80, G. N. CHETTY ROAD, CHENNAI - 600 017
VENDOR LIST FOR SUBCONTRACTORS WITH VENDOR MATERIAL (ACF)

CPCL MANALI GTG COGEN PLANT/ CUSTOMER NO : Utility Boiler -7252

Dated :23.02.15

PROJECT	CPCL MANALI GTG COGEN PLANT/ CUSTOMER NO : Utility Boiler -7252				Dated :23.02.15		
Sino	Material Group	Mat Group Description	No.	Vendor Name	CITY1	Remarks	Customer (CPCL) Remarks Approved yes / no
5	TANKN	NON IBR TANKS	1	ABF-ENGG INTERNATIONAL PVT LTD	MANGALORE.	Not in customer Appd list	
			2	ALIEGH-INFRASTRUCTURE PVT LTD	NEW DELHI.		
			3	BHVD JOINTS PVT LIMITED	BHOPAL		
			4	BHARAT ENGG ENTERPRISES	RANIPET		
			5	E&C PROJECTS PVT LTD	GHAZIABAD.		
			6	EMESTEE ENGINEERING LTD	NAGPUR.		
			7	EXCEL INDUSTRIES.	HYDERABAD		
			8	HEMADATHA-HITECH-LTD.,	CUDDALORE		
			9	MAS-STEEL FABRICATORS.	RANIPET		
			10	MEENAKSHI ASSOCIATES PVT LTD.	GREATER NOIDA		
			11	NEW FIELD INDUSTRIAL EQPTS PVT LTD	VADODARA.		
			12	NOVATECH PROHEETS INDIA PVT LTD	THANE (E)		
			13	S&G-ENGINEERS PRIVATE LIMITED	BHAGOLA		
			14	SAKTHI HI-TECH CONTSTRN. (P) LTD	CHENNAI		
			15	SEAM-INDUSTRIES LIMITED,	NAGPUR		
			16	SHYAM-HITECH-STEES PVT LTD	DURG		
			17	SOUTHERN HEAVY ENGINEERING PVT. LTD	SRIPERUMBUDHUR		
			18	THERMOSYSTEMS PVT.LTD.,	HYDERABAD		
			19	TRIGITECH ENGINEERING PVT.LTD.,	MEDAK DIST.		
			20	UNITECH MACHINES LIMITED	NEW DELHI		
			21	V3.MEGA-CORP-INTERNATIONAL PVT.LTD.	THIRUVALLUR		

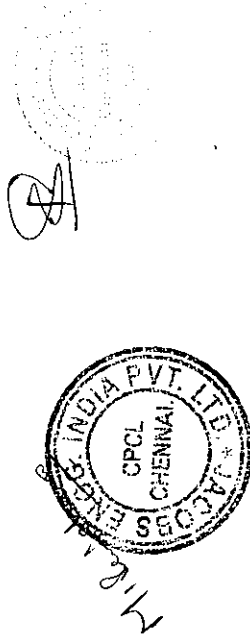


M. Govindarajan
 (Signature)

ANNEXURE-1

BHEL - RANIPAT
 CPCL Manali Utility Boiler Package - Vendor list Approved

SI No	Product Group	Items Name	SI No & Page No of approved Vendor List	Availability in Customer Approved Vendor list	BHEL Approved Vendor List	Additional BHEL Vendor List for Customer Approval	Remarks
01	APH	SCAPH		Nil	Baroda Equipment and Vessels Pvt. Ltd C Doctor & Company Pvt Ltd Par Energy Infra Pvt. Ltd Patei Airtemp (India) Ltd.	Baroda Equipment and Vessels Pvt. Ltd C Doctor & Company Pvt Ltd Par Energy Infra Pvt. Ltd Patei Airtemp (India) Ltd.	
02	Fans	LOS		Nil	Anandshel Hydraulics Pvt Ltd Cenlub Industries Limited Cenlub Systems Fluid Logic Systems Pvt Ltd Lincoln Helios(India) Ltd PSI Engineering Systems P. Ltd Southern Lubrications Pvt.Ltd Spraying Systems (India) Pvt Ltd TA Hydraulics Pvt. Limited Unique Engineering Enterprises Pvt Ltd., Yuken India Limited Bangalore, Tamil Nadu	Anandshel Hydraulics Pvt Ltd Cenlub Industries Limited Cenlub Systems Fluid Logic Systems Pvt Ltd Lincoln Helios(India) Ltd PSI Engineering Systems P. Ltd Southern Lubrications Pvt.Ltd Spraying Systems (India) Pvt Ltd TA Hydraulics Pvt. Limited Unique Engineering Enterprises Pvt Ltd., Yuken India Limited Bangalore, Tamil Nadu	
03	Fans	Steam Turbines			Forbes & Company Merrimack Kiroloskar Ebara Dresser Rand Company Ebara Corporation Eliott Turbo Machinery Corporation Co.IN Mitsubishi Heavy Industries Ltd Siemens AG PGI Nippon	Forbes & Company Merrimack Kiroloskar Ebara	
05	Gates &	Electrical Actuators- (Open/Close Type)	Available in Page No. 10 SI.No 22 Rotary Egpt		Auma (India) Private Limited Rotork Controls (India) Private Limited Limiterorque India Limited Haryana, Haryana		





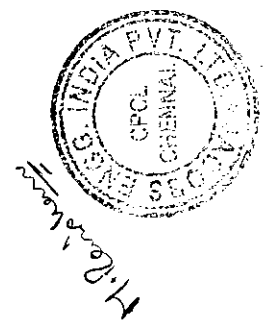
Bharat Heavy Electricals Limited (A Govt. of India Undertaking)
 Electro- Porcelains Division, Bangalore, 560012, India
 AN ISO 9001 COMPANY

Regd. Office: BHEL House, Siri Fort, New Delhi - 110 049

Proposed Vendor List for CPCL: 1x150 TPH UB project

Sl no	Material Group Description	BHEL EDN Vendor List	Matching with CPCL
		M/s. Ventaly Navada	Yes
		M/s Shinkawa, Japan/ M/s Forbes Marshall, Pune	No
		M/s Meggit SA Switzer land/ M/s Viweggit india ltd, Bangalore	No
1	MACHINE MONITORING SYSTEM FOR FD FAN & ITS MOTOR	M/s IRD-Mechanalysis, Mumbai	No
		M/s SKF condition monitoring, USA/ M/s SKF India ltd Mumbai	No
		M/s Rockwell automation, USA/ M/s Rockwell automation india pvt ltd, Noida	No

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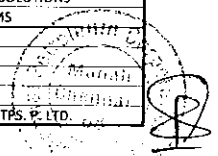


PE&SD BHEL - Hyderabad BOP Items vendor list
 Project: 1X20 MW GTG + 1X100 TPH HRSG, CPCL Manali
 Addnl Vendors Proposal

ANNEXURE - 2.

		Project: 1x20 MW GTG+1X100 TPH HRSG Resid Upgradation_CPCL_Manali	Vendor List	Unit: PE&SD_Hyderabad.
Sl. No.	Item Description	CPCL Unit III & IV Approved Vendor list.	BHEL-PMD No PE&SD PMD Vendors	Additional Vendors proposed by PE&SD Hyderabad
M1	THERMAL INSULATION PACKAGE	M/s LLOYD INSULATIONS (INDIA) LTD., M/s MINWOOL ROCK FIBRES LTD.,	PE.MP.034 LLOYD INSULATIONS (INDIA) LTD., MINWOOL ROCK FIBRES LTD., LLOYD PROJECTS PVT. LTD., KAEFER PUNJ LLOYD LIMITED	LLOYD PROJECTS PVT. LTD. KAEFER PUNJ LLOYD LIMITED
M2	BALL VALVES (CS.5S) & PNEUMATIC ON-OFF BALL VALVES	M/s FLOW CHEM INDUSTRIES, M/s AKAY INDUSTRIES PVT LTD, M/s B.D.K.ENGINEERING INDS.LIMITED M/s MICRO FINISH VALVES PVT.LTD., M/s MICON VALVES (I) PVT. LTD. M/s ASIAN INDUSTRIAL VALVES M/s UNIFLOW	PE.MP.060 FLOW CHEM INDUSTRIES, AKAY INDUSTRIES PVT LTD WEIR BDK VALVES MICRO FINISH VALVES PVT.LTD., MICON VALVES (I) PVT. LTD. ASIAN INDUSTRIAL VALVES AND UNIFLOW L & T VALVES LIMITED BOTEL VALVE GROUP COMPANY LTD. AMPO S CO OP POYAM VALVES OSWAL INDUSTRIES LTD. B.F.E.SRL BONNEY FORGE DEMBLA VALVES LTD. SHALIMAR VALVES PVT. LTD. ANAND TEKNOW AIDS ENGINEERING INDIA LEADER VALVES LIMITED LVF S.P.A KITZ CORPORATION	L & T VALVES LIMITED BOTEL VALVE GROUP COMPANY LTD. AMPO S CO OP POYAM VALVES OSWAL INDUSTRIES LTD. B.F.E.SRL BONNEY FORGE DEMBLA VALVES LTD. SHALIMAR VALVES PVT. LTD. ANAND TEKNOW AIDS ENGINEERING INDIA LEADER VALVES LIMITED LVF S.P.A KITZ CORPORATION
M3	STEAM TRAP & STRAINERS	M/s ESCO M/s MICON VALVES (I) PVT. LTD. M/s SPIRAX MARSHALL LIMITED M/s PENNANT ENGINEERING PVT LTD.	PE.MP.059 ESCO, MICON VALVES (I) PVT. LTD. SPIRAX MARSHALL LIMITED PENNANT ENGINEERING PVT LTD, GESTRA AG UNI KLINGER LTD.	GESTRA AG UNI KLINGER LTD.
M4	HANGERS AND SUPPORTS PACKAGE OF STG/GTG COGEN PROJECTS	M/s SARATHI ENGINEERING ENTERPRISES PVT M/s BHARAT HEAVY ELECTRICALS M/s PIPE SUPPORTS INDIA PVT LTD., M/s SPRING SUPPORTS MANUFACTURING CO	PE.MP.521 SARATHI ENGINEERING ENTERPRISES PVT SPRING SUPPORTS PIPE SUPPORTS CO BERGEN PIPE SUPPORTS INDIA PIPE HANGERS & SUPPORTS PVT LTD	PIPE SUPPORTS CO. BERGEN PIPE SUPPORTS INDIA PIPE HANGERS & SUPPORTS PVT LTD
M5	E.O.T. CRANE	M/s SHIVPRA CRANES PVT. LTD., M/s ROCK WELL HOISTO CRANES PVT.LTD., M/s ANUPAM INDUSTRIES LIMITED, M/s WMI CRANES LTD., M/s EDDYCRANES ENGINEERS PVT.	PE.MP.028 SHIVPRA CRANES PVT. LTD., ROCK WELL HOISTO CRANES PVT.LTD. ANUPAM INDUSTRIES LIMITED, WMI CRANES LTD. EDDYCRANES ENGINEERS PVT. GRIP ENGINEERS PVT. LTD. TUOBRO FURGUSON (INDIA) PVT.LTD.	GRIP ENGINEERS PVT. LTD. TUOBRO FURGUSON (INDIA) PVT. LTD.
M6	H.O.T. (HAND OPERATED TRAVELLING) CRANES & HOISTS	M/s SOUTHERN PLANTAIDS PVT LIMITED M/s ROCK WELL HOISTO CRANES PVT. LTD., M/s EDDYCRANES ENGINEERS PVT. M/s MM ENGINEERS PVT. LTD.,	PE.MP.030 SOUTHERN PLANTAIDS PVT LIMITED ROCK WELL HOISTO CRANES PVT. LTD. EDDYCRANES ENGINEERS PVT. MM ENGINEERS PVT. LTD. GRIP ENGINEERS PVT. LTD. CENTURY CRANE ENGINEERS	GRIP ENGINEERS PVT. LTD. CENTURY CRANE ENGINEERS
M7	FUEL OIL FORWARDING SKIDS / UNLOADING SKID	M/s THERMOSYSTEMS PRIVATE LIMITED., M/s TECHNOSTRENGTH PVT. LTD., M/s EPE PROCESS FILTERS & ACCUMULATOR M/s SOUTHERN LUBRICATION (P) LTD; M/s TECHNO CONSULTANTS, M/s ENPRO INDUSTRIES PVT. LTD.,	PE.MP.010 THERMOSYSTEMS PRIVATE LIMITED. TECHNOSTRENGTH PVT. LTD. EPE PROCESS FILTERS & ACCUMULATOR SOUTHERN LUBRICATION (P) LTD., TECHNO CONSULTANTS ENPRO INDUSTRIES PVT. LTD., UNIQUE ENGINEERING ENTPS. P. LTD. TA HYDRAULICS PVT.LTD.,	UNIQUE ENGINEERING ENTPS. P. LTD. TA HYDRAULICS PVT.LTD.,
M8	FUEL OIL FINE FILTERS	M/s VIZAG FILTERS (P) LTD M/s EPE PROCESS FILTERS & ACCUMULATOR M/s PALL INDIA PVT. LTD., M/s HILLARD CORPORATION,	PE.MP.013 VIZAG FILTERS (P) LTD EPE PROCESS FILTERS & ACCUMULATOR PALL INDIA PVT. LTD., FIL SEP EQUIPMENTS PVT. LTD. FILTER CONCEPT PVT.LTD. NIRMAL INDUSTRIAL CONTROLS PVT LTD PETROMAR ENGINEERED SOLUTIONS	FIL SEP EQUIPMENTS PVT. LTD. FILTER CONCEPT PVT. LTD. NIRMAL INDUSTRIAL CONTROLS PVT LTD PETROMAR ENGINEERED SOLUTIONS
M9	HITECH SKIDS / VANADIUM IN HIBITOR DOSING SKID	M/s s EPE PROCESS FILTERS & ACCUMULATOR M/s SOUTHERN LUBRICATION (P) LTD; M/s SWELORE ENGG PVT. LTD. M/s TECHNO CONSULTANTS, M/s ENPRO INDUSTRIES PVT. LTD., M/s MILTONROY INDIA PVT. LTD.,	PE.MP.039 EPE PROCESS FILTERS & ACCUMULATOR SOUTHERN LUBRICATION (P) LTD., SWELORE ENGG PVT. LTD. TECHNO CONSULTANTS ENPRO INDUSTRIES PVT. LTD., MILTONROY INDIA PVT. LTD. UNIQUE ENGINEERING ENTPS. P. LTD. TA HYDRAULICS PVT.LTD., MATZ PUMPS PRIVATE LIMITED	UNIQUE ENGINEERING ENTPS. P. LTD. TA HYDRAULICS PVT.LTD., MATZ PUMPS PRIVATE LIMITED
M10	ACCUMULATORS	M/s EPE PROCESS FILTERS & ACCUMULATOR M/s HYDAC INDUSTRIESTRABE, M/s PARKER HANNIFIN INDIA PVT.LTD. M/s FAWCETT CHRISTIE	PE.MP.038 EPE PROCESS FILTERS & ACCUMULATOR PARKER HANNIFIN INDIA PVT.LTD. HYDAC (INDIA) PVT. LTD.,	
M11	MAGNETIC FILTERS	M/s V.M. CORPORATION,	PE.MP.029 V.M. CORPORATION FIL SEP EQUIPMENTS PVT. LTD. EPE PROCESS FILTERS & ACCUMULATOR PETROMAR ENGINEERED SOLUTIONS A.C. HUMIDIN AIR SYSTEMS	FIL SEP EQUIPMENTS PVT. LTD. EPE PROCESS FILTERS & ACCUMULATOR PETROMAR ENGINEERED SOLUTIONS A.C. HUMIDIN AIR SYSTEMS
M12	DRAIN TANK- FOR HSD/NAPHTHA/IFO/GAS CONDENSATE DRAINS	M/s THERMOSYSTEMS PRIVATE LIMITED., M/s GE GODAVARI ENGINEERING LTD., M/s EXCEL INDUSTRIES, M/s RUKSAN ENGINEERS PVT.LTD.	PE.MP.050 THERMOSYSTEMS PRIVATE LIMITED. GEI GODAVARI ENGINEERING LTD. EXCEL INDUSTRIES, RUKSAN ENGINEERS PVT.LTD. UNIQUE ENGINEERING ENTPS. P. LTD.	UNIQUE ENGINEERING ENTPS. P. LTD.

M. Ramesh

PESD BHEL - Hyderabad BOP Items vendor list
Project: 1X20 MW GTG + 1X100 TPH HRSG, CPCL Manali
Addnl Vendors Proposal

ANNEXURE-2

Sl. No.	Item Description	CPCL Unit III & IV Approved Vendor list.	BHEL-PMD No	PE&SD PMD Vendors	Additional Vendors proposed by PE&SD Hyderabad
M13	GAS CONDITIONING SKID	M/s MULTITEX FILTRATION ENGINEERS LTD. M/s GRAND PRIX ENGINEERING PVT. LTD M/s NIRMAL INDUSTRIAL CONTROLS PVT. LT M/s A PLUS PROJECTS & TECHNOLOGY (P) LT	PE.MP.001	MULTITEX FILTRATION ENGRS LTD., GRAND PRIX ENGINEERING PVT. LTD NIRMAL INDUSTRIAL CONTROLS PVT LTD A PLUS PROJECTS & TECHNOLOGY (P) LT GAS TECH PROCESS ENGINEERING JORD INTERNATIONAL PTY LTD DALIAN ENER GAS-SYSTEM CO., LTD. PETROMAR ENGINEERED SOLUTIONS PEERLESS MFG. CO.	GAS TECH PROCESS ENGINEERING JORD INTERNATIONAL PTY LTD DALIAN ENER GAS-SYSTEM CO., LTD. PETROMAR ENGINEERED SOLUTIONS PEERLESS MFG. CO.
M14	LP DOSING SYSTEM	M/s TECHNOSTRENGTH PVT. LTD., M/s SWELORE ENGG PVT. LTD. M/s TECHNO CONSULTANTS, M/s ENPRO INDUSTRIES PVT. LTD., M/s P S I ENGINEERING SYSTEMS (P) LTD M/s MILTONROY INDIA PVT. LTD.,	PE.MP.015	TECHNOSTRENGTH PVT. LTD. SWELORE ENGG PVT. LTD. TECHNO CONSULTANTS ENPRO INDUSTRIES PVT. LTD., P S I ENGINEERING SYSTEMS (P) LTD MILTONROY INDIA PVT. LTD. UNIQUE ENGINEERING ENTPS. P. LTD. POSITIVE METERING PUMPS RAM INDUSTRIES V.K.PUMP INDUSTRIES PVT. LTD. TA HYDRAULICS PVT. LTD., MATZ PUMPS PRIVATE LIMITED	UNIQUE ENGINEERING ENTPS. P. LTD. POSITIVE METERING PUMPS RAVI INDUSTRIES V.K.PUMP INDUSTRIES PVT. LTD. TA HYDRAULICS PVT. LTD., MATZ PUMPS PRIVATE LIMITED
M15	WATER BASED FIRE PROTECTION SYSTEM	M/s GUNNEBO INDIA LTD. M/s FIREPRO SYSTEMS PVT. LTD. M/s NEW FIRE ENGINEERS(P) LTD, M/s KIDDE INDIA LIMITED., M/s AGNICE FIRE PROTECTION LTD., M/s DE S TECHNICO PRIVATE LIMITED	PE.MP.524	FIREPRO SYSTEMS PVT. LTD. NEW FIRE ENGRS. PVT. LTD. AGNICE FIRE PROTECTION LTD DE S TECHNICO PRIVATE LIMITED MX SYSTEMS INTERNATIONAL PVT. LTD. STERLING AND WILSON LTD HITEK ENGINEERING SERVICES THERMOSYSTEMS PRIVATE LIMITED. SAMAY PROJECT SERVICES P LTD MEHTA & ASSOCIATES FIRE PROTECTION UTC FIRE & SECURITY INDIA LIMITED. TYCO FIRE & SECURITY INDIA TECHNICO (INDIA) PVT. LTD.	MX SYSTEMS INTERNATIONAL PVT. LTD. STERLING AND WILSON LTD HITEK ENGINEERING SERVICES THERMOSYSTEMS PRIVATE LIMITED. SAMAY PROJECT SERVICES P LTD MEHTA & ASSOCIATES FIRE PROTECTION UTC FIRE & SECURITY INDIA LIMITED. TYCO FIRE & SECURITY INDIA TECHNICO (INDIA) PVT. LTD.
M16	FIRE DETECTION & ALARM SYSTEM AND GAS DETECTION SYSTEM	M/s GUNNEBO INDIA LTD. M/s FIREPRO SYSTEMS PVT. LTD. M/s NEW FIRE ENGINEERS(P) LTD, M/s KIDDE INDIA LIMITED., M/s AGNICE FIRE PROTECTION LTD., M/s DE S TECHNICO PRIVATE LIMITED	PE.MP.526	FIREPRO SYSTEMS PVT. LTD. NEW FIRE ENGRS. PVT. LTD. AGNICE FIRE PROTECTION LTD DE S TECHNICO PRIVATE LIMITED UTC FIRE & SECURITY INDIA LIMITED. NITIN FIRE PROTECTION INDUSTRIES LI MX SYSTEMS INTERNATIONAL PVT. LTD. STERLING AND WILSON LTD HONEYWELL INTERNATIONAL INDIA PVT. HITEK ENGINEERING SERVICES THERMOSYSTEMS PRIVATE LIMITED. DS FIRE SYSTEMS PRIVATE LIMITED TYCO FIRE & SECURITY INDIA SAMAY PROJECT SERVICES P LTD MEHTA & ASSOCIATES FIRE PROTECTION TECHNICO (INDIA) PVT. LTD.	UTC FIRE & SECURITY INDIA LIMITED. NITIN FIRE PROTECTION INDUSTRIES LI MX SYSTEMS INTERNATIONAL PVT. LTD. STERLING AND WILSON LTD HONEYWELL INTERNATIONAL INDIA PVT. HITEK ENGINEERING SERVICES THERMOSYSTEMS PRIVATE LIMITED. DS FIRE SYSTEMS PRIVATE LIMITED TYCO FIRE & SECURITY INDIA SAMAY PROJECT SERVICES P LTD MEHTA & ASSOCIATES FIRE PROTECTION TECHNICO (INDIA) PVT. LTD.
M17	PORTABLE FIRE EXTINGUISHERS	M/s GUNNEBO INDIA LTD. M/s FIREPRO SYSTEMS PVT. LTD. M/s NEW FIRE ENGINEERS(P) LTD, M/s KIDDE INDIA LIMITED., M/s AGNICE FIRE PROTECTION LTD., M/s DE S TECHNICO PRIVATE LIMITED	PE.MP.527	FIREPRO SYSTEMS PVT. LTD. NEW FIRE ENGRS. PVT. LTD. AGNICE FIRE PROTECTION LTD DE S TECHNICO PRIVATE LIMITED THERMOSYSTEMS PRIVATE LIMITED. UTC FIRE & SECURITY INDIA LIMITED. NITIN FIRE PROTECTION INDUSTRIES LI MX SYSTEMS INTERNATIONAL PVT. LTD. SUPREMEX EQUIPMENTS INTIME FIRE APPLIANCES PVT. LTD. HITEK ENGINEERING SERVICES KANADIA FYR FYTER PVT. LTD. UNITED FIRE EQUIPMENTS PVT. LTD. SAMAY PROJECT SERVICES P LTD ASHOKA ENGINEERING COMPANY MEHTA & ASSOCIATES FIRE PROTECTION TYCO FIRE & SECURITY INDIA INTEGRATED FIRE PROTECTION TECHNICO (INDIA) PVT. LTD.	THERMOSYSTEMS PRIVATE LIMITED. UTC FIRE & SECURITY INDIA LIMITED. NITIN FIRE PROTECTION INDUSTRIES LI MX SYSTEMS INTERNATIONAL PVT. LTD. SUPREMEX EQUIPMENTS INTIME FIRE APPLIANCES PVT. LTD. HITEK ENGINEERING SERVICES KANADIA FYR FYTER PVT. LTD. UNITED FIRE EQUIPMENTS PVT. LTD. SAMAY PROJECT SERVICES P LTD ASHOKA ENGINEERING COMPANY MEHTA & ASSOCIATES FIRE PROTECTION TYCO FIRE & SECURITY INDIA INTEGRATED FIRE PROTECTION TECHNICO (INDIA) PVT. LTD.
M18	SPLIT/WINDOW AIR CONDITIONERS	M/s LG ELECTRONICS INDIA LTD., M/s BLUE STAR LTD, M/s SAMSUNG INDIA ELECTRONICS LTD., M/s VIDEOCON INTERNATIONAL LIMITED, M/s VOLTAS LIMITED,	PE.MP.077	LG ELECTRONICS INDIA LTD. BLUE STAR LTD SAMSUNG INDIA ELECTRONICS PVT LTD. VIDEOCON INTERNATIONAL LIMITED VOLTAS LIMITED, LLOYD ELECTRIC & ENGINEERING LTD.	LLOYD ELECTRIC & ENGINEERING LTD.
M19	CENTRIFUGAL FANS, AXIAL FANS AND AIR HANDLING UNITS	M/s HYDERABAD POLLUTION CONTROLS M/s C.DOCTOR INDIA PRIVATE LTD., M/s AEROVENT PROJECTS PVT.LTD.,	PE.MP.558	VAPCON MANUFACTURING ENGINEERS	VAPCON MANUFACTURING ENGINEERS

M. R...


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PE&D BH&L - Hyderabad BDP Items vendor list
Project: 1X 20 MW GTG + 1X100 TPH HRSG, CPCL Manali
Addtl Vendors Proposal

ANNEXURE - 2


Sl. No.	Item Description	CPCL Unit III & IV Approved Vendor list.	BHEL-PMD No	PE&D PMD Vendors	Additional Vendors proposed by PE&D Hyderabad
M22	CONTROL VALVES (PNEUMATIC DIAPHRAGM)	M/s Forbes Marshall Arca Ltd., Pune M/s Dresser Valve India Pvt.Ltd., Mumbai M/s MIL Controls Limited., Secunderabad M/s.Instrumentation Limited, Palghat M/s Fisher Sanmar Limited,	PE.IN.515	FORBES MARSHALL ARCA LTD., DRESSER VALVE INDIA PVT.LTD. MIL CONTROLS LIMITED., INSTRUMENTATION LTD KOSO FLUID CONTROLS PVT. LTD. EMERSON PROCESS MANAGEMENT HOLTER REGELARMATUREN GMBH & CO. KG	KOSO FLUID CONTROLS PVT. LTD. EMERSON PROCESS MANAGEMENT
M23	DESUPERHEATERS	M/s HOLTER REGELARMATUREN GMBH & CO M/s Instrumentation Ltd, Palghat M/s Fourss Engineers (India) , B A N G A L O M/s Chemtrols Engineering Ltd., M U M B A I M/s Forbes Marshall Arca Ltd., Pune M/s Fisher Sanmar Limited, M/s. Mazda Ltd., Ahmedabad.	PE.IN.522	HOLTER REGELARMATUREN GMBH & CO. KG CHEMTROLS INDUSTRIES LTD., FORBES MARSHALL ARCA LTD., CIRCOR FLOW TECHNOLOGIES INDIA NARVIK-YARWAY B.V. KOSO FLUID CONTROLS PVT. LTD. EMERSON PROCESS MANAGEMENT	CIRCOR FLOW TECHNOLOGIES INDIA NARVIK-YARWAY B.V. KOSO FLUID CONTROLS PVT. LTD. EMERSON PROCESS MANAGEMENT
M24	SAFETY RELIEF VALVES	M/s Instrumentation Ltd, Palghat M/s FORBES MARSHALL LTD., M/s Tyco Sanmar Limited.,	PE.IN.566	INSTRUMENTATION LTD FORBES MARSHALL LTD., TYCO SANMAR LIMITED. WEIR BDK VALVES BOPP & REUTHER SICHERHEITS- UND BLISS ANAND PVT. LTD., SCHNEIDER ELECTRIC INDIA LARSEN & TOUBRO LIMITED, HYD SAND S ELECTRIC LIMITED	WEIR BDK VALVES BOPP & REUTHER SICHERHEITS- UND BLISS ANAND PVT. LTD.,
E1	LT.MOTOR CONTROL CENTRES, POWER CONTROL CENTRES, A C & D C DISTRIBUTION BOARDS.	M/s Schneider Electricals Pvt Ltd., M/s Larsen & Toubro Limited, Hyderabad. M/s Controls & Switchgear , New Delhi. M/s Siemens India Limited	PE.EP.017	SCHNEIDER ELECTRIC INDIA LARSEN & TOUBRO LIMITED, HYD SAND S ELECTRIC LIMITED SPACEAGE SWITCHGEARS LIMITED GE INDIA INDUSTRIAL PRIVATE LTD, BCH ELECTRIC LTD. ABB LIMITED	SPACEAGE SWITCHGEARS LIMITED GE INDIA INDUSTRIAL PRIVATE LTD, BCH ELECTRIC LTD. ABB LIMITED
E2	NEUTRAL GROUNDING RESISTORS	M/s Lachhman Electronics, , New Delhi M/s Rsi Switchgear Private , M/s S R Narkhede Engineering, M/s Ampcontrol Equipments Pvt Ltd, M/s National Switchgears, M/s Bajaj Electricals Ltd., M/s Crompton Greaves	PE.EP.014	LACHHMAN ELECTRONICS RSI SWITCHGEAR PVT LTD M/S.S.R.NARKHEDE ENGG.(P)LTD AMPCONTROL EQUIPMENTS PVT LTD NATIONAL SWITCHGEARS BAJAJ ELECTRICALS LTD., HYD. CROMPTON GREAVES	
E3	ILLUMINATION ITEMS PACKAGE		PE.EP.057	SPACEAGE SWITCHGEARS LIMITED SQUARE A ENTERPRISES WIPRO LIMITED MIKA ENGINEERS	SPACEAGE SWITCHGEARS LIMITED SQUARE A ENTERPRISES WIPRO LIMITED MIKA ENGINEERS
E4	LT POWER CABLES	M/s Universal Cables Ltd., Hyderabad M/s Radiant Cables Pvt. Ltd., Hyderabad M/s Nicco Corporation Ltd., Hyderabad M/s Polycab Industries Pvt.Ltd., M/s Cords Cable Industries Ltd., M/s Delton Cables Limited, M/s Torrent Cables Ltd., Ahmedabad M/s Ravin Cables Ltd M/s KEI industries Ltd.	PE.EP.033	UNIVERSAL CABLES LTD NICCO CORPORATION LTD HYD POLY-CAB INDUSTRIES PVT.LTD. CORDS CABLE INDUSTRIES LTD. DELTON CABLES LIMITED TORRENT CABLES LTD RAVIN CABLES LTD KEI INDUSTRIES LIMITED SRIRAM CABLES PVT. LTD. GEMSCAB INDUSTRIES LTD. SPECIAL CABLES PVT. LTD. SUYOG ELECTRICALS LTD APAR INDUSTRIES LIMITED THERMO CABLES LIMITED KEC INTERNATIONAL LIMITED	SRIRAM CABLES PVT. LTD. GEMSCAB INDUSTRIES LTD. SPECIAL CABLES PVT. LTD. SUYOG ELECTRICALS LTD APAR INDUSTRIES LIMITED THERMO CABLES LIMITED KEC INTERNATIONAL LIMITED
E5	CONTROL CABLES	M/s Thermo Pads Pvt Ltd, Hyderabad, India M/s Goyolene Fibres (I) Pvt Ltd, Hyderabad, I M/s LAPP cables, B'lore, India M/s Universal Cables Ltd., Hyderabad M/s Thermo Cables Limited, M/s Radiant Cables Pvt. Ltd., Hyderabad M/s Nicco Corporation Ltd., Hyderabad M/s Polycab Industries Pvt.Ltd., M/s Cords Cable Industries Pvt. Ltd., , New De M/s Delton Cables Limited, M/s Ravin Cables Ltd KEI industries Ltd.	PE.EP.034	UNIVERSAL CABLES LTD THERMO CABLES LIMITED NICCO CORPORATION LTD HYD POLY-CAB INDUSTRIES PVT.LTD. CORDS CABLE INDUSTRIES LTD. DELTON CABLES LIMITED RAVIN CABLES LTD KEI INDUSTRIES LIMITED GEMSCAB INDUSTRIES LTD. SUYOG ELECTRICALS LTD ELKAY TELELINKS LIMITED CMI LIMITED KEC INTERNATIONAL LIMITED PARAMOUNT COMMUNICATIONS LTD SPECIAL CABLES PVT. LTD. SRIRAM CABLES PVT. LTD. ASSOCIATED CABLES PVT LTD.	GEMSCAB INDUSTRIES LTD. SUYOG ELECTRICALS LTD ELKAY TELELINKS LIMITED CMI LIMITED KEC INTERNATIONAL LIMITED PARAMOUNT COMMUNICATIONS LTD SPECIAL CABLES PVT. LTD. SRIRAM CABLES PVT. LTD. ASSOCIATED CABLES PVT LTD.



M. Ravi Kumar

PE&D BHEL - Hyderabad BOP Items vendor list
Project: 1X20 MW GTG + 1X100 TPH HRSG, CPCL Manali
Addnl Vendors Proposal

ANNEXURE - 2

Sl. No.	Item Description	CPCL Unit III & IV Approved Vendor list.	BHEL-PMD No	PE&SD PMD Vendors	Additional Vendors proposed by PE&SD Hyderabad
E6	HT POWER CABLES	M/s Universal Cables Ltd., Hyderabad	PE.EP.035	<input checked="" type="checkbox"/> UNIVERSAL CABLES LTD	RPG cables name changed to KEC
		M/s RPG Cables Ltd		<input checked="" type="checkbox"/> KEC INTERNATIONAL LIMITED	
		M/s Radiant Cables Pvt. Ltd.,		<input checked="" type="checkbox"/> NICCO CORPORATION LTD. HYD	
		M/s Nicco Corporation Ltd., Hyderabad		<input checked="" type="checkbox"/> TORRENT CABLES LTD	
		M/s Torrent Cables Ltd., Ahmedabad		<input checked="" type="checkbox"/> RAVIN CABLES LTD	
		M/s Ravin Cables Ltd		<input checked="" type="checkbox"/> POLYCAB WIRES PVT.LTD	
E7	HT CABLE JOINTING / TERMINATING KITS	M/s Yamuna Gases & Chemicals Ltd., Jagadhri	PE.EP.009	<input checked="" type="checkbox"/> YAMUNA POWER & INFRASTRUCTURE LTD.	
		M/s Birla 3 M Ltd.,		<input checked="" type="checkbox"/> BIRLA 3 M LTD	
E8	CABLE TRAYS	M/s Patny Systems Pvt. Ltd., Secunderabad	PE.EP.036	<input checked="" type="checkbox"/> PATNY SYSTEMS PVT. LTD	
		M/s Jamna Metal Company.,		<input checked="" type="checkbox"/> JAMNA METAL COMPANY	
		M/s Parmar Metals Pvt. Ltd		<input checked="" type="checkbox"/> PARMAR METALS PVT. LTD	
		M/s Metalemmas Bombay Pvt Ltd.,		<input checked="" type="checkbox"/> METALEMMS BOMBAY PVT. LTD.	
		M/s Premier Power Products (Calcutta) Pvt. L		<input checked="" type="checkbox"/> PREMIER POWER PRODUCTS	
		M/s India Electricals Syndicate, Kolkata		<input checked="" type="checkbox"/> INDIA ELECTRICALS SYNDICATE	
E9	EARTHING AND LIGHTENING PROTECTION MATERIALS	M/s Patny Systems Pvt. Ltd., Secunderabad	PE.EP.027	<input checked="" type="checkbox"/> VINFAB ENGINEERS INDIA PRIVATE	VINFAB ENGINEERS INDIA PRIVATE
		M/s Jamna Metal Company.,		<input checked="" type="checkbox"/> PATNY SYSTEMS PVT. LTD	
		M/s Premier Power Products (Calcutta) Pvt. L		<input checked="" type="checkbox"/> JAMNA METAL COMPANY	
		M/s India Electricals Syndicate, Kolkata		<input checked="" type="checkbox"/> PREMIER POWER PRODUCTS	
E10	LOCAL CONTROL STATIONS (SAFE / HAZARDOUS AREA)	M/s Prompt Engineering Works, Mumbai	PE.EP.032	<input checked="" type="checkbox"/> PROMPT ENGINEERING WORKS, MUMBAI	
		M/s Flameproof Equipments Pvt.Ltd., Mumb		<input checked="" type="checkbox"/> FLAMEPROOF EQUIPMENTS PVT.LTD.	
		M/s FCG Flameproof Control Gears		<input checked="" type="checkbox"/> FCG FLAMEPROOF CONTROL GEARS	
		M/s FLEXPRO		<input checked="" type="checkbox"/> FLEXPRO ELECTRICALS PVT. LTD.,	
		M/s Fcg Power Industries		<input checked="" type="checkbox"/> FCG POWER INDUSTRIES,	
		M/s Sudhir Switch Gear		<input checked="" type="checkbox"/> BALIGA LIGHTING EQUIPMENT PVT. LTD.	
E11	RUBBER MATS	M/s Sridhar Engineering & Rubber ,		<input checked="" type="checkbox"/> SRIDHAR ENGINEERING AND RUBBER	BALIGA LIGHTING EQUIPMENT PVT. LTD.
		M/s The Rubber Products Ltd. ,		<input checked="" type="checkbox"/> THE RUBBER PRODUCTS LTD.	
		M/s Indian Rubber Products ,		<input checked="" type="checkbox"/> INDIAN RUBBER PRODUCTS	
		M/s Durga Trading Co			
		M/s Premier Polyfilms Ltd			
		M/s Sutex Enterprises			
E12	ELECTRICAL CONTROLS PANELS	M/s Electronics Corporation Of India Ltd., Hyd	PE.EP.022	<input checked="" type="checkbox"/> RMG POLYVINYL INDIA LTD	RMG POLYVINYL INDIA LTD
		M/s Panam Controls, Secunderabad		<input checked="" type="checkbox"/> PROGRESSIVE RUBBER WORKS	
		M/s Controls & Switchgear, New Delhi.		<input checked="" type="checkbox"/> ELECTRONICS CORPORATION OF INDIA LT	
		M/s Industrial Controls & , Mumbai		<input checked="" type="checkbox"/> PANAM CONTROLS,	
		M/s Shibsha Instruments (India) Pvt. Ltd., , Ch		<input checked="" type="checkbox"/> SAND S ELECTRIC LIMITED	
		M/s Bharat Heavy Electricals, Bhopal		<input checked="" type="checkbox"/> INDUSTRIAL CONTROLS & SHIBSHA INSTRUMENTS (I) PVT. LTD	
C1	SWAS SYSTEM - CONDUCTIVITY AND PH MONITORING SYSTEM AND DO2 ANALYSER	M/s EMERSON PROCESS MANAGEMENT (I) P	PE.IN.508	<input checked="" type="checkbox"/> EMERSON PROCESS MGT (I) PVT LTD	
		M/s ABB Limited, Hyderabad		<input checked="" type="checkbox"/> ABB LIMITED, HYD	
		M/s Forbes Marshall Ltd.,		<input checked="" type="checkbox"/> FORBES MARSHALL LTD.,	
		M/s DKK-TOA Corporation,		<input checked="" type="checkbox"/> DKK-TOA CORPORATION,	
		M/s Honeywell Automation Indian Pvt Ltd			
		M/s Endress & Hauser, Mumbai			
C2	FLOW ORIFICES	M/s MICRO PRECISION PRODUCTS (P) LTD., P	PE.IN.528	<input checked="" type="checkbox"/> HORIBA LTD.	HORIBA LTD.
		M/s INSTRUMENTATION LTD, PALGHAT		<input checked="" type="checkbox"/> YOKOGAWA INDIA LIMITED	
		M/s GENERAL INSTRUMENTS CONSORTIUM ,		<input checked="" type="checkbox"/> MICRO PRECISION PRODUCTS (P) LTD.	
		M/s BALIGA LIGHTING EQUIPMENT PVT. LTD.		<input checked="" type="checkbox"/> INSTRUMENTATION LTD	
				<input checked="" type="checkbox"/> GENERAL INSTRUMENTS CONSORTIUM	
				<input checked="" type="checkbox"/> DYNALUID VALVES AND FLOW CONTROLS	
C3	FLOW NOZZLES	M/s MICRO PRECISION PRODUCTS (P) LTD., P	PE.IN.527	<input checked="" type="checkbox"/> SCIENTIFIC DEVICES (BOMBAY) PVT. LT	SCIENTIFIC DEVICES (BOMBAY) PVT. LT
		M/s INSTRUMENTATION LTD, PALGHAT		<input checked="" type="checkbox"/> STAR-MECH CONTROLS (I) PVT. LTD.	
		M/s GENERAL INSTRUMENTS CONSORTIUM ,		<input checked="" type="checkbox"/> STAR-MECH CONTROLS (I) PVT. LTD.	
		M/s BALIGA LIGHTING EQUIPMENT PVT. LTD.		<input checked="" type="checkbox"/> EUREKA INDUSTRIAL EQUIPMENTS	
				<input checked="" type="checkbox"/> HYDROPNEMATICS PRIVATE LIMITED	
				<input checked="" type="checkbox"/> ASIAN INDUSTRIAL VALVES AND	
C4	MASS FLOWMETER	M/s Emerson Process Management (I) Pvt. Lt	PE.IN.005	<input checked="" type="checkbox"/> MICRO PRECISION PRODUCTS (P) LTD.	M/s GIC NAME CHANGED TO MINCO (INDIA)
		M/s Forbes Marshall Limited, Hyderabad-Kro		<input checked="" type="checkbox"/> INSTRUMENTATION LTD	
		M/s Endress & Hauser GmbH + Co., Germany		<input checked="" type="checkbox"/> MINCO (INDIA) FLOW ELEMENTS	
		M/s Yokogawa India Limited ,		<input checked="" type="checkbox"/> ASIAN INDUSTRIAL VALVES AND	
		M/s Rockwin Flowmeter India Pvt Ltd		<input checked="" type="checkbox"/> HYDROPNEMATICS PRIVATE LIMITED	
				<input checked="" type="checkbox"/> DYNALUID VALVES AND FLOW CONTROLS	
	<input checked="" type="checkbox"/> STAR-MECH CONTROLS (I) PVT. LTD.				
	<input checked="" type="checkbox"/> EMERSON PROCESS MGT (I) PVT LTD				
	<input checked="" type="checkbox"/> FORBES MARSHALL (HYD) PVT LIMITED,				
	<input checked="" type="checkbox"/> ENDRESS & HAUSER GMBH + CO.				
	<input checked="" type="checkbox"/> YOKOGAWA INDIA LIMITED				
	<input checked="" type="checkbox"/> GE INDIA INDUSTRIAL PVT. LTD.				
	<input checked="" type="checkbox"/> GE INDIA INDUSTRIAL PVT. LTD.				

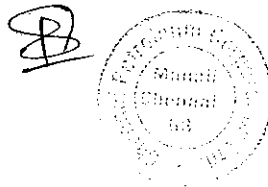
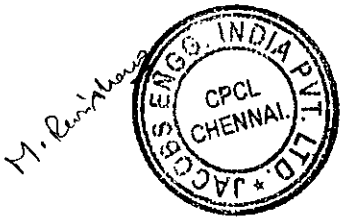
M. Ramkumar


PESD BHEL - Hyderabad BOP Items vendor list
Project: 1X20 MW GTG + 1X100 TPH HRSG, CPCL Manali
Addnl Vendors Proposal

ANNEXURE-2

Sl. No.	Item Description	CPCL Unit III & IV Approved Vendor list.	BHEL-PMD No	PE&SD PMD Vendors	Additional Vendors proposed by PE&SD Hyderabad
C5	SIGNAL CABLE, THERMOCOUPLE, EXTN. COMP. CABLES	M/s Techno Cables Pvt. Ltd.,	PE.EP.043	THERMO CABLES LIMITED	
		M/s Cords Cable Industries Pvt. Ltd., New Del		CORDS CABLE INDUSTRIES LTD.	
		M/s Kei Industries Limited,		KEI INDUSTRIES LIMITED	
		M/s Delton Cables Limited,		DELTON CABLES LIMITED	
		M/s. Polycab wires Ltd.,		POLYCAR WIRES PVT.LTD	
		M/s Reliance Engrs. Pvt Ltd.			
		M/s Toshniwal Cables, Jaipur			
		M/s Radiant Cables Pvt. Ltd., Hyderabad			
		M/s Universal Cables,			
		M/s Thermo Cables Limited,			
			LAPP INDIA PVT. LTD.	LAPP INDIA PVT. LTD.	
			ASSOCIATED CABLES PVT LTD.	ASSOCIATED CABLES PVT LTD.	
			PARAMOUNT COMMUNICATIONS LTD	PARAMOUNT COMMUNICATIONS LTD	
			SPECIAL CABLES PVT LTD.	SPECIAL CABLES PVT. LTD.	
			ELKAY TELELINKS LIMITED	ELKAY TELELINKS LIMITED	
			MIDDLE EAST SPECIALIZED CABLES CO.	MIDDLE EAST SPECIALIZED CABLES CO.	
			SUYOG ELECTRICALS LTD	SUYOG ELECTRICALS LTD	
			LEONI CABLE SOLUTIONS (INDIA)	LEONI CABLE SOLUTIONS (INDIA)	
C6	FIELD INSTRUMENTATION PACKAGE	M/s.Emerson Process Management India Pvt	PE.IN.585	EMERSON PROCESS MGT (I) PVT LTD	
		M/s. Honeywell Automation Indian Pvt Ltd		HONEYWELL AUTOMATION INDIA LIMITED	
		M/s. ABB Ltd.,		ABB LIMITED, HYD	
		M/s.Yokogawa India Ltd., India,		YOKOGAWA INDIA LIMITED	
			ENDRESS + HAUSER (INDIA) PVT. LTD.,	ENDRESS + HAUSER (INDIA) PVT. LTD.,	
C7	LEVEL TRANSMITTER (GUIDED WAVE RADAR TYPE)	M/s V. Automat&Instruments Pvt Ltd, Secund	PE.IN.010		
		M/s Chemtrols Engineering Ltd., M U M B A I		MAGNETROL INTERNATIONAL N.V.	MAGNETROL INTERNATIONAL N.V.
		M/s Dresser Valve India Pvt.Ltd., Mumbai		ENDRESS & HAUSER GMBH + CO.	ENDRESS & HAUSER GMBH + CO.
		M/s FISHER SANMAR LIMITED,		PUNE TECHTROL PVT LTD	PUNE TECHTROL PVT LTD
				SAAB ROSEMOUNT TANK GUAGING	SAAB ROSEMOUNT TANK GUAGING
		VEGA INDIA LEVEL & PRESSURE MEASURE	VEGA INDIA LEVEL & PRESSURE MEASURE		
C8	INSTRUMENT HOOK UP MATERIAL PACKAGE	Not Listed	PE.IN.580	KWALITY FORGED FITTINGS	KWALITY FORGED FITTINGS
				UNIQUE ENGINEERING ENTPS. P. LTD.	UNIQUE ENGINEERING ENTPS. P. LTD.
				PRESHZINGER ENGINEERING	PRESHZINGER ENGINEERING
				CARLO DYNATECH INDUSTRIES,	CARLO DYNATECH INDUSTRIES,
				U I PIPE FITTINGS PVT. LTD.	U I PIPE FITTINGS PVT. LTD.
				TRUE FORGE PVT.LTD.,	TRUE FORGE PVT.LTD.,
				TRUE FAB ENGINEER (P) LTD.	TRUE FAB ENGINEER (P) LTD.
				P.K. TUBES & FITTINGS PVT. LTD.	P.K. TUBES & FITTINGS PVT. LTD.
				DYNAFLUID VALVES AND FLOW CONTROLS	DYNAFLUID VALVES AND FLOW CONTROLS
				PANAM ENGINEERS PVT. LTD.	PANAM ENGINEERS PVT. LTD.
<p>NOTE:</p> <p>1. FOR FOLLOWING ITEM VENDOR APPROVED FOR UTILITY BOILER SHALL BE USED i. PIPES,ii. PIPE FITTINGS,iii. VALVES (OTHER THAN MENTIONED ABOVE), iv GASKETS,ETC.</p> <p>2. For Sr. No. C6 mentioned above, Individual Items in the package shall be procured form the CPCL / Jacobs approved vendor list only.</p> <p>3. For Sr. No. C8 mentioned above, Note: individual items in the package for Inst. Tubing & Tube fittings shall be procured form the CPCL / Jacobs approved vendor list only.</p>					



BHEL-Trichy-PCPS/Commercial						
Customer / Consultant Approved Sub Vendor List for Major Bought Out Items						
Project: CPCL Manali - 1x100TPH HRSG - Cust. No. 5765 Dt: 05.05.2015 Rev: 00						
Sl no	Mat Group	Material Group Description	Vendor Name	CITY	COUNTRY	Remarks
1	43ACT	ACTUATOR:ELEC.REGULATING	AUMA (INDIA) PRIVATE LIMITED, LIMOTORQUE INDIA LTD., ROTORCK CONTROLS LIMITED	BANGALORE FARIDABAD UK	INDIA INDIA UK	
2	43PWC	ACTUATOR:PNEUMATIC(OPEN&CLOSE)	WEIR BDK VALVES-A unit of Weir INSTRUMENTATION LTD., KEELTRON CONTROLS, ROTEX MANUFACTURERS & INSTRUMENTATION LTD., KEELTRON CONTROLS,	HUBLI KERALA AROOR MUMBAI KERALA AROOR	INDIA INDIA INDIA INDIA INDIA INDIA	
3	43PWR	ACTUATOR:PNEUMATIC R	KEELTRON CONTROLS, P.R.G.ELECTRO-PNEUMATICS-LTD United Kingdom	AROOR United Kingdom	INDIA INDIA	
4	95FCG	SDE:CABLE:GLAND/ADAP	SAVITA LIGHTING EQUIPMENTS PVT. COMET BRASS PRODUCT PROMPT ENGG WORKS, SGG-EXT-TECH PVT-LTD, STANDARD METAL INDUSTRIES, K.S.INSTRUMENTS PVT. LTD, MANISHA COMPOSITEK PVT LTD SUCHITRA INDUSTRIES	CHENNAI MUMBAI MUMBAI CHENNAI MUMBAI BANGALORE. PUNE.	INDIA INDIA INDIA INDIA INDIA INDIA INDIA	
5	95FRJ	FRP JUNCTION BOX (FI	SURAG INDIA INSTRUMENTATION PVT. L ABB	BANGALORE BANGALORE	INDIA INDIA	
6	95FSI	FLAME SCANNER ASS	FIVES COMBUSTION SYSTEMS PVT-LTD HAMWORTHY COMBUSTION ENGINEERING-LT LUCENT-MARGONS (P) LTD, DILAYA-CONTROL-ELEMENTS PVT-LTD., SRU CONTROL PVT. LTD.,	BANGALORE GUJARAT DELHI BARODA CHENNAI	INDIA INDIA UK INDIA INDIA INDIA	
7	96AFS	AIRFILTER REGULATOR	MOCON INDUSTRIES PVT.LTD., PLACKA INSTRUMENTS INDIA P.LTD., SAGA INDUSTRIES, SHAVO NORGREN (I) P.LTD., VEEJAN HYDRATR LIMITED, BALAH-ELECTRO-CONTROLS-PVT-LTD., CHEMIN CONTROLS AND DYNAASPEDE-INTEGRATED-SYSTEMS-	HYDERABAD (A.P.) CHENNAI KATTOOR MUMBAI HYDERABAD BANGALORE PONDICHERY CHENNAI	INDIA INDIA INDIA INDIA INDIA INDIA INDIA INDIA	

NOT APPLICABLE



ANNEXURE-2

Sl no	Mat Group	Material Group Description	Vendor Name	CITY	COUNTRY	Remarks
8	96AJD	STARTER/CNTRL BOXES:	PRAMMEN INDUSTRIES,	PUDUKOTTAI	INDIA	
			SAJAS ELECTRICALS,	TRICHY	INDIA	
			SANBHA INSTRUMENTS(INDIA)P.LTD.,	CHENNAI	INDIA	
			VENKAT-ELECTRONICS,	TRICHY	INDIA	
			AVL AUTOMATION ENGINEERING & PROJEC	BANGALORE	INDIA	
9	96AJF	SDE:BOX:FLAME PROOF	FCG FLAME PROOF CONTROL GEARS	MUMBAI	INDIA	
			FLEXPRO ELECTRICALS PVT. LTD,	GUJARAT	INDIA	
			PROMPT ENGG WORKS,	MUMBAI	INDIA	
			SCG Ex d TECH PVT. LTD.,	CHENNAI	INDIA	
			BHARAT HEAVY ELECTRICALS LTD.	TRICHY	INDIA	
10	97EWI	EWL INDICATOR	RAMAN INSTRUMENTS PVT.LTD	MUMBAI	INDIA	
			SOLOTRAN		UK	
			VARWAY CORPORATION		USA	
			TYCO VALVES & CONTROLS INDIA PVT.LTD	CHENNAI	INDIA	
			CHEMTROLS INDUSTRIES LTD,	MUMBAI	INDIA	
11	97FGD	FLUEGAS ANALYZERS(DI	ENVIRONNEMENT S.A.INDIA PVT. LTD,	NAVI MUMBAI	INDIA	
			THERMO FISHER SCIENTIFIC INDIA	NAVI MUMBAI	INDIA	
			CHEMTROLS INDUSTRIES LTD,	MUMBAI	INDIA	
			DURAG INDIA INSTRUMENTATION PVT. L	BANGALORE	INDIA	
			HAND INSTRUMENTS-INTL LTD		UK	
12	97FGK	ANALYSERS(FLUEGAS)SM	PGME-LTD,		UK	
			ABB LTD.,	BANGALORE	INDIA	
			AMETEK PROCESS & INSTRUMENTS LTD		USA	
			ANALYSER INSTRUMENT CO.PVT.LTD,?	KOTA	INDIA	
			EMERSON PROCESS MANAGEMENT (INDIA)	India	INDIA	
13	97FGO	ANALYSERS(FLUEGAS)OX	FORBES-MARSHALL-PRIVATE-LIMITED	PUNE, MAHARASTRA	INDIA	
			YOKOGAWA INDIA LIMITED,	CHENNAI	INDIA	
			ABB LTD.,	BANGALORE	INDIA	
			ANALYSER INSTRUMENT CO.PVT.LTD.,	KOTA	INDIA	
			CHEMTROLS INDUSTRIES LTD,	MUMBAI	INDIA	
14	97FGS	ANALYSERS (FLUEGAS)	EMERSON PROCESS MANAGEMENT (INDIA)	India	INDIA	
			ENVIRONNEMENT S.A.INDIA PVT. LTD,	NAVI MUMBAI	INDIA	
			HORIBA LTD.,		JAPAN	
			THERMO FISHER SCIENTIFIC INDIA	NAVI MUMBAI	INDIA	
			YOKOGAWA INDIA LIMITED,	CHENNAI	INDIA	
			AN INSTRUMENTS PVT. LIMITED,	KOLKATA	INDIA	
			GENERAL INSTRUMENTS CONSORTIUM	MUMBAI	INDIA	



M. Ramani Kumar

Sl no	Mat Group	Material Group Description	Vendor Name	CITY	COUNTRY	Remarks
21	AYFHM	MOTORS:LT.MOTORS:WP	MICRO PRECISION PRODUCTS (P) LTD,	FARIDABAD	INDIA	
			SHARAT BIJLEE LIMITED,	CHENNAI	INDIA	
			CROMPTON GREAVES LIMITED,	CHENNAI	INDIA	
			HEM INDUSTRIES,	MUMBAI	INDIA	
			KIRLOSKAR ELECTRIC CO.LTD.,	CHENNAI	INDIA	
			EXXIM HYDRAULICS PVT.LTD.,	SHOLAPUR	INDIA	
			MARATHON ELECTRIC MOTORS (INDIA) LT	CHENNAI	INDIA	
			PRECISION ENGINEERING WORKS,	MUMBAI	INDIA	
			ARCA REGLER GMBH		Germany	
			CONTROL COMPONENT INDIA PVT LTD	BANGALORE	INDIA	
22	21SBV	VALVE:SOOT BLOWER PR	CONTROL COMPONENTS INC		USA.	
			DRESSER PRODUCTS INDUSTRIES S-A-S		FRANCE.	
			DRESSER VALVE INDIA PRIVATE LTD.,	COIMBATORE	INDIA	
			EMERSON PROCESS MANAGEMENT CHENNAI	CHENNAI	INDIA	
			HOLTER REGELARMATUREN GMBH		GERMANY	
			INSTRUMENTATION LTD.,	KERALA	INDIA	
			KOSO INDIA PRIVATE LIMITED.	NASHIK.	INDIA	
			MIL CONTROLS LIMITED	THIRISSUR DIST,	INDIA	
			MIHON KOSO CO.LTD.	TOKYO - 103-0027	JAPAN	
			SEVERN GLOCON INDIA (P) LTD,	CHENNAI.	INDIA	
23	24CBV	VALVE:CONTROL BLOCK/	DEMBLA VALVES LTD.,	THANE	INDIA	
			DRESSER VALVE INDIA PRIVATE LTD.,	COIMBATORE	INDIA	
			INSTRUMENTATION LTD.,	KERALA	INDIA	
			MIL CONTROLS LIMITED	THIRISSUR DIST,	INDIA	
			R-K CONTROL INSTRUMENTS PVT.LTD	THANE	INDIA	
			SAMSON CONTROLS PRIVATE LIMITED	PUNE	INDIA	
			CONTROL COMPONENT INDIA PVT LTD	BANGALORE	INDIA	
			CONTROL COMPONENTS INC		USA.	
			CONTROL COMPONENTS INC AG		SWITZ	
			DRESSER PRODUCTS INDUSTRIES S-A-S		FRANCE.	
24	24CHV	CONTROL VALVE :HP ALONG WITH ACCU AIR R	DRESSER VALVE INDIA PRIVATE LTD.,	COIMBATORE	INDIA	
			FLOWERVE INDIA CONTROLS PVT.LTD.,	BANGALORE	INDIA	
			HOLTER REGELARMATUREN GMBH		GERMANY	
			INSTRUMENTATION LTD.,	KERALA	INDIA	
			KOSO INDIA PRIVATE LIMITED.	NASHIK.	INDIA	
			MIL CONTROLS LIMITED	THIRISSUR DIST,	INDIA	
			MIHON KOSO CO.LTD.	TOKYO - 103-0027	JAPAN	

[Handwritten Signature]





M. P. ...

Sl no	Mat Group	Material Group Description	Vendor Name	CITY	COUNTRY	Remarks
39	43SAF	FAN:SCANNER AIR FAN	AIR CONTROL & CHEMICAL ENGG.CO.LTD.	MUMBAI	India	
			ROCHEM ENGINEERING COMPANY,	KOLHAPUR	India	
			C-BOEYER & CO.PVT.LTD.	COIMBATORE.	India	
			DOCTOR INDIA PVT. LTD.,	AHMEDABAD.	India	
			PATELS AIRFLOW LIMITED,	AHMEDABAD	India	
			MATZ PUMPS PVT LTD	AHMEDABAD	India	
			MILTON ROY INDIA PVT.LTD.	CHENGALPATTU.	India	
			POWER PIPING CO.	MANDAIYUR.	India	
			TECHNO CONSULTANTS	MUMBAI	India	
			V.K.PUMPS INDUSTRIES P.LTD.	MAHARASHTRA	India	
40	80DOS	DOSING SYSTEM	GOENKA ROCKWOOL (INDIA) PVT.LTD.,	RAIPUR (C.G)	India	
			JAMSHEDPUR MINERAL WOOL MFG.CO.	JAMSHEDPUR	India	
			LOYD ROCKFIBRES LTD,	WALU	India	
			MAHAWOOL ROCK FIBRES LTD	HYDERABAD	India	
			POLYBOND INSULATION PVT.LTD.,	BHLAI	India	
			BLUJSTAR INSULATION FIBRE	NEW DELHI	India	
			ROCKWOOL (INDIA) LTD,	HYDERABAD	India	
			ROCKWOOL INDUSTRIES-	NEW DELHI	India	
			BRFREERAM EQUITECH PVT. LTD,	DISTRICT DURG	India	
			THERMOCARE ROCKWOOL (1) PVT. LTD.	RAINADGAON	India	
42	33CER	INSULATION CERAMIC WOOL	LOYD INSULATIONS (INDIA) LIMITED,	CHENNAI	India	
			MURUGAPPA MORGAN THERMAL CERAMICS L	AHMEDABAD	India	
			UNIFRAX INDIA LIMITED,	RAIKOT.	India	
			DELVAL FLOW CONTROLS PVT.LTD.,	CHENNAI	India	
			DEMBLA VALVES LTD.,	THANE	India	
			GM ENGINEERING	RAIKOT.	India	
			KATER VALVE (INDIA) LTD.,	CHENNAI	India	
			MASGOT VALVES PVT.LTD	AHMEDABAD	India	
			WEIR BDK VALVES-A unit of Weir	HUBLI	India	
			43	47BFV	VALVE: BUTTERFLY VALV	

NOTE : 1) Approved earlier supplied HRSG for CPCL project.

M. Ramesh

ANNEXURE-23

VENDOR'S CHECK LIST

ANNEXURE-23

CHECKLIST FOR OFFER

BOILER FEED PUMP UNIT

Description	Enclosed (Yes/ No)
Bidder to confirm to the scope of supply as per BHEL specs PEMC 05923	
Bidder to confirm that all the counter flanges along with gaskets & stud nuts at all the terminal point shall be in their scope.	
Bidder to furnish a list of commissioning spares. (Refer Cl no 4.0.0 (A)-20(A))	
Bidder to furnish a list of special tools & tackles (Refer Cl no 4.0.16).	
Bidder to highlight specific comments on the inspection requirements wrt scope of supply. (Refer Cl no 8.0.0)	
Bidder to highlight any deviation wrt the sub vendor list with proper justification. (Refer Cl no 11.0.0)	
Bidders to comment on the instrumentation requirement as per P&ID (annexure -1) based on their experience. If any other instruments are required as per good engg practice, bidder to highlight the same.	
Bidder's confirmation required for furnishing a list of 2 year recommended spares in their offer separately with optional price.	
Reference list/Equipment Qualification criteria as per clause no 6.0.0	
Deviation list to the specification. All other requirements except for the deviation brought out under deviation list, have been taken into consideration.	
Bidder to quote as per BHEL price format only. Price quoted as per the price bid format, clearly indicating all the applicable items are quoted, and not applicable items are clearly highlighted. Un priced copy of the same is enclosed.	
Bidder to check the master document list and submit all the required documents as per the master document list (Annexure-11) without fail and take the approval of BHEL/JACOBS.	

SIGNATURE:
NAME:
DESIGNATION:
COMPANY: _____

DATE: _____