

		BHARAT HEAVY ELECTRICALS LIMITED [A Government of India Undertaking] Ramachandrapuram, Hyderabad, 502032, A.P. India Phone 040-23184526, 23182322 FAX:040-23021910, 1954			भारत हेवी इलेक्ट्रिकल्स लिमिटेड (भारत सरकार का उपक्रम) रामचन्द्रपुरम, हैदराबाद, 502032 आंध्र प्रदेश, भारत			RFQ NO :		PURCHASE DEPARTMENT ENQUIRY क्रय विभाग जांच (ई मेल : tenderbox@bhelhyd.co.in)		SHEET:1 OF :9	
HY17001 C REV.NO.0		Phone 091-40-23184526 091-40-23182322			FAX : 091-40-23021910 091-40-23021954			PURCHASE DEPARTMENT					
		GSTIN:			Enq/Collective No :E5A1S85415		Enq.Dt. : 01.04.2019		No.Of Items :*		DUE Dt. OF QUOTN. : 23.04.2019		
Office Copy				Please submit your lowest quotation in sealed cover superscribed with Enquiry No./Collective No.(RFQ No) and due date subject to our terms and conditions attached ,for the materials mentioned below. Your offer has to reach us onor before due date by 11.00 Hours (IST) and will be opened at 14.00 Hours.(IST).If our Enquiry No./Collective No.(RFQ No) and tender due date are not super scribed on the tender cover , your offer shall be summarily rejected. Incomplete offers and late offers will not be considered.									
SL NO	Purchase Req.no	item no	Material Code, HSN No.	Drq no - Ver , Rev & Spec - Ver , Rev,Spec-Var	Description	Unit	Qty	Delivery Date	Schedule Qty				
1	8000088352	40	HE9711503131	31750102539-04,00,HE51370,00,NA	TEST COUPON	EA	1.000	30.09.2019	1.000				
2	8000088352	50	HE9711503140	31750102539-05,00,HE51370,00,NA	TEST COUPON	EA	1.000	30.09.2019	1.000				
3	8000088352	60	HE9711503158	31750102539-06,00,HE51370,00,NA	TEST COUPON	EA	1.000	30.09.2019	1.000				
4	8000088371	20	HE9711504812	41750501350-01A,00,HE51527,,NA	TEST COUPON FOR DISHED END	EA	1.000	30.09.2019	1.000				
5	8000085415	60	HE9711813017 7309	31750102505-01,,HE51370,00,NA	DISHED END 2:1 ELLIP ID1800X28THK(MIN)	EA	6.000	30.09.2019	1.000				
6	8000085415	10	7309					30.09.2019	1.000				
7	8000085415	20	7309					30.09.2019	1.000				
8	8000085415	30	7309					30.09.2019	1.000				
9	8000085415	40	7309					30.09.2019	1.000				
10	8000085415	50	7309					30.09.2019	1.000				
						TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : N BID TYPE : TWO PART			For and on-behalf of Bharat Heavy Electricals Limited. M. Chaithanya Kumar Dy.MGR/Pur(HE&F)Ph.040-2318 2390				

		BHARAT HEAVY ELECTRICALS LIMITED [A Government of India Undertaking] Ramachandrapuram, Hyderabad, 502032, A.P. India Phone 040-23184526, 23182322 FAX:040-23021910, 1954			भारत हेवी इलेक्ट्रिकल्स लिमिटेड (भारत सरकार का उपक्रम) रामचन्द्रपुरम, हैदराबाद, 502032 आंध्र प्रदेश, भारत			RFQ NO :		PURCHASE DEPARTMENT ENQUIRY क्रय विभाग जांच (ई मेल : tenderbox@bhelhyd.co.in)		SHEET:2 OF :9	
HY17001 C REV NO.0		Phone 091-40-23184526 091-40-23182322		FAX : 091-40-23021910 091-40-23021954		PURCHASE DEPARTMENT							
		GSTIN:		Enq/Collective No :E5A1S85415		Enq.Dt : 01.04.2019		No.Of Items :*		DUE Dt. OF QUOTN : 23.04.2019			
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11	8000085415	120	HE9711813025 7309	31750102505-02,,HE51370,00,NA	DISHED END 2:1 ELLIP ID1800X57THK(MIN)	EA	6.000	30.09.2019	1.000				
12	8000085415	70	7309					30.09.2019	1.000				
13	8000085415	80	7309					30.09.2019	1.000				
14	8000085415	90	7309					30.09.2019	1.000				
15	8000085415	100	7309					30.09.2019	1.000				
16	8000085415	110	7309					30.09.2019	1.000				
17	8000085415	180	HE9711813033 7309	31750102505-03,,HE51370,00,NA	DISHED END 2:1 ELLIP ID1600X60THK(MIN)	EA	6.000	30.09.2019	1.000				
18	8000085415	130	7309					30.09.2019	1.000				
19	8000085415	140	7309					30.09.2019	1.000				
20	8000085415	150	7309					30.09.2019	1.000				
						TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : N BID TYPE : TWO PART			For and on-behalf of Bharat Heavy Electricals Limited. M. Chaithanya Kumar Dy.MGR/Pur(HE&F)Ph.040-2318 2390				

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HY17001 C REV NO.0		Phone 091-40-23184526 091-40-23182322		FAX : 091-40-23021910 091-40-23021954		PURCHASE DEPARTMENT					
		GSTIN:		Enq/Collective No :E5A1S85415		Enq.Dt : 01.04.2019		No.Of Items :*		DUE Dt. OF QUOTN : 23.04.2019	
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SL NO	Purchase Req.no	item no	Material Code, HSN No.	Drg no - Ver , Rev & Spec - Ver , Rev,Spec-Var	Description	Unit	Qty	Delivery Date	Schedule Qty		
21	8000085415	160	7309					30.09.2019	1.000		
22	8000085415	170	7309					30.09.2019	1.000		
23	8000087582	10	HE9711814676 7309	41622200421-01,,HE51370,00,NA	DISH 2:1 ELLIP ID1650X13THK(MIN)LPH	EA	6.000	30.09.2019	2.000		
24	8000087582	30	7309					30.09.2019	2.000		
25	8000087582	20	7309					30.09.2019	2.000		
26	8000087582	40	HE9711814684 7309	41622200421-02,,HE51370,00,NA	DISH 2:1 ELLIP ID1850X13THK(MIN)LPH	EA	6.000	30.09.2019	2.000		
27	8000087582	60	7309					30.09.2019	2.000		
28	8000087582	50	7309					30.09.2019	2.000		
29	8000087582	80	HE9711814692 7309	41622200421-03,,HE51370,00,NA	DISH 2:1 ELLIP ID1400X30THK(MIN)LPH	EA	6.000	30.09.2019	2.000		
30	8000087582	90	7309					30.09.2019	2.000		
						TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : N BID TYPE : TWO PART			For and on-behalf of Bharat Heavy Electricals Limited. M. Chaithanya Kumar Dy.MGR/Pur(HE&F)Ph.040-2318 2390		

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HY17001 C REV NO.0		Phone 091-40-23184526 091-40-23182322		FAX : 091-40-23021910 091-40-23021954		PURCHASE DEPARTMENT					
		GSTIN:		Enq/Collective No :E5A1S85415		Enq.Dt :01.04.2019		No.Of Items :*		DUE Dt. OF QUOTN : 23.04.2019	
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SL NO	Purchase Req.no	item no	Material Code, HSN No.	Drg no - Ver , Rev & Spec - Ver , Rev,Spec-Var	Description	Unit	Qty	Delivery Date	Schedule Qty		
31	8000087582	70	7309					30.09.2019	2.000		
32	8000087582	110	HE9711814706 7309	41622200421-04,,HE51370,00,NA	DISH 2:1 ELLIP ID1570X34THK(MIN)LPH	EA	6.000	30.09.2019	2.000		
33	8000087582	130	7309					30.09.2019	1.000		
34	8000087582	120	7309					30.09.2019	1.000		
35	8000087582	100	7309					30.09.2019	2.000		
36	8000085950	10	HE9711824060 7309	41750103371-,,HE51527,,	AS DISHED END(ID 1100 X THK 36 MIN)	EA	6.000	30.09.2019	1.000		
37	8000085950	60	7309					30.09.2019	1.000		
38	8000085950	50	7309					30.09.2019	1.000		
39	8000085950	40	7309					30.09.2019	1.000		
40	8000085950	30	7309					30.09.2019	1.000		
						TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : N BID TYPE : TWO PART			For and on-behalf of Bharat Heavy Electricals Limited. M. Chaithanya Kumar Dy.MGR/Pur(HE&F)Ph.040-2318 2390		

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HY17001 C REV NO.0		Phone 091-40-23184526 091-40-23182322		FAX : 091-40-23021910 091-40-23021954		PURCHASE DEPARTMENT							
		GSTIN:		Enq/Collective No :E5A1S85415		Enq.Dt : 01.04.2019		No.Of Items :*		DUE Dt. OF QUOTN : 23.04.2019			
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41	8000085950	20	7309					30.09.2019	1.000				
42	8000086140	100	HE9711824086 8404	41631000682-00,,HE51370,00,06	SPH.DISH OD1700/981X28(MIN)MATCH OD3056	EA	3.000	30.09.2019	1.000				
43	8000086140	20	8404					30.09.2019	1.000				
44	8000086140	60	8404					30.09.2019	1.000				
45	8000086140	10	HE9711824094 8404	41631000682-00,,HE51370,00,05	2:1 ELLIP.DISH END ID 3000X28(MIN)SF=75	EA	6.000	30.09.2019	2.000				
46	8000086140	90	8404					30.09.2019	2.000				
47	8000086140	50	8404					30.09.2019	2.000				
48	8000086140	30	HE9711824108 8404	41631000682-00,,HE51370,00,06	SPH.DISH OD950/626X28(MIN)MATCH OD3056	EA	3.000	30.09.2019	1.000				
49	8000086140	110	8404					30.09.2019	1.000				
50	8000086140	70	8404					30.09.2019	1.000				
						TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : N BID TYPE : TWO PART			For and on-behalf of Bharat Heavy Electricals Limited. M. Chaithanya Kumar Dy.MGR/Pur(HE&F)Ph.040-2318 2390				

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HY17001 C REV NO.0		Phone 091-40-23184526 091-40-23182322		FAX : 091-40-23021910 091-40-23021954		PURCHASE DEPARTMENT					
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51	8000086140	40	HE9711824116 8404	41631000682-00,,HE51370,00,08	SPH.DISH OD500/289X28(MIN)MATCH OD3056	EA	6.000	30.09.2019	2.000		
52	8000086140	120	8404					30.09.2019	2.000		
53	8000086140	80	8404					30.09.2019	2.000		
54	8000086147	120	HE9711824124 8404	41631000684-,,HE51370,00,09	SPH.DISH OD950/626X28(MIN)MATCH OD4056	EA	6.000	30.09.2019	1.000		
55	8000086147	70	8404					30.09.2019	1.000		
56	8000086147	80	8404					30.09.2019	1.000		
57	8000086147	90	8404					30.09.2019	1.000		
58	8000086147	100	8404					30.09.2019	1.000		
59	8000086147	110	8404					30.09.2019	1.000		
60	8000086147	60	HE9711824132 8404	41631000684-00,,HE51370,00,10	2:1 ELLIP.DISH END ID4000X28(MIN) SF=75	EA	6.000	30.09.2019	1.000		
						TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : N BID TYPE : TWO PART			For and on-behalf of Bharat Heavy Electricals Limited. M. Chaithanya Kumar Dy.MGR/Pur(HE&F)Ph.040-2318 2390		

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		GSTIN:		Enq/Collective No :E5A1S85415		Enq.Dt :01.04.2019		No.Of Items :*		DUE Dt. OF QUOTN : 23.04.2019	
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61	8000086147	40	8404					30.09.2019	1.000		
62	8000086147	30	8404					30.09.2019	1.000		
63	8000086147	20	8404					30.09.2019	1.000		
64	8000086147	10	8404					30.09.2019	1.000		
65	8000086147	50	8404					30.09.2019	1.000		
66	8000086147	130	HE9711824140 8404	41631000684-00,,HE51370,00,11	SPH.DISH OD700/422X28(MIN)MATCH OD4056	EA	3.000	30.09.2019	1.000		
67	8000086147	150	8404					30.09.2019	1.000		
68	8000086147	140	8404					30.09.2019	1.000		
69	8000088371	10	HE9711824388	41750501350-01,00,HE51527,,NA	DISHED END 2:1 ELLIP ID 1300XTHK43 MIN	EA	1.000	30.09.2019	1.000		
70	8000088352	30	HE9711833034	31750102539-03,00,HE51370,00,NA	DISHED END 2:1 ELLIP ID 2050XTHK86MIN	EA	1.000	30.09.2019	1.000		
						TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : N BID TYPE : TWO PART			For and on-behalf of Bharat Heavy Electricals Limited. M. Chaithanya Kumar Dy.MGR/Pur(HE&F)Ph.040-2318 2390		

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HY17001 C REV NO.0		Phone 091-40-23184526 091-40-23182322		FAX : 091-40-23021910 091-40-23021954		PURCHASE DEPARTMENT							
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71	8000088352	20	HE9711833042	31750102539-02,00,HE51370,00,NA	DISHED END 2:1 ELLIP ID 2200XTHK67MIN	EA	1.000	30.09.2019	1.000				
72	8000088352	10	HE9711833050	31750102539-01,00,HE51370,00,NA	DISHED END 2:1 ELLIP ID 2200XTHK31MIN	EA	1.000	30.09.2019	1.000				
73	8000088341	10	HE9711834626 84049000	41631000666-00,00,HE51370,00,NA	2:1 ELLIP.DISH END ID4000X28(MIN)SF=75	EA	2.000	30.09.2019	1.000				
74	8000088341	20	84049000					30.09.2019	1.000				
75	8000088341	30	HE9711834634 84049000	41631000666-02,00,HE51370,00,NA	SPH.DISH OD600/372X28(MIN.) MATCH OD4056	EA	1.000	30.09.2019	1.000				
76	8000088341	40	HE9711834642 84049000	41631000666-01,00,HE51370,00,NA	SPH.DISH OD950/525X28(MIN.) MATCH OD4056	EA	2.000	30.09.2019	1.000				
77	8000088341	50	84049000					30.09.2019	1.000				
78	8000088342	10	HE9711834650 84049000	41631000665-00,00,HE51370,00,NA	2:1 ELLIP.DISH END ID3000X32(MIN)SF=75	EA	2.000	30.09.2019	2.000				
79	8000088342	20	HE9711834669 84049000	41631000665-02,00,HE51370,00,NA	SPH.DISH OD950/525X32(MIN.) MATCH OD3064	EA	1.000	30.09.2019	1.000				
80	8000088342	30	HE9711834677 84049000	41631000665-03,00,HE51370,00,NA	SPH.DISH OD500/340X32(MIN.) MATCH OD3064	EA	1.000	30.09.2019	1.000				
						TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : N BID TYPE : TWO PART			For and on-behalf of Bharat Heavy Electricals Limited. M. Chaithanya Kumar Dy.MGR/Pur(HE&F)Ph.040-2318 2390				

		BHARAT HEAVY ELECTRICALS LIMITED [A Government of India Undertaking] Ramachandrapuram, Hyderabad, 502032, A.P. India Phone 040-23184526, 23182322 FAX:040-23021910, 1954			भारत हेवी इलेक्ट्रिकल्स लिमिटेड (भारत सरकार का उपक्रम) रामचन्द्रपुरम, हैदराबाद, 502032 आंध्र प्रदेश, भारत			RFQ NO :		PURCHASE DEPARTMENT ENQUIRY क्रय विभाग जांच (ई मेल : tenderbox@bhelhyd.co.in)		SHEET:9 OF :9	
HY17001 C REV NO.0		Phone 091-40-23184526 091-40-23182322		FAX : 091-40-23021910 091-40-23021954		PURCHASE DEPARTMENT							
		GSTIN:		Enq/Collective No :E5A1S85415		Enq.Dt :01.04.2019		No.Of Items :*		DUE Dt. OF QUOTN : 23.04.2019			
Office Copy				Please submit your lowest quotation in sealed cover superscribed with Enquiry No./Collective No.(RFQ No) and due date subject to our terms and conditions attached ,for the materials mentioned below.Your offer has to reach us onor before due date by 11.00 Hours (IST) and will be opened at 14.00 Hours.(IST).If our Enquiry No./Collective No.(RFQ No) and tender due date are not super scribed on the tender cover , your offer shall be summarily rejected. Incomplete offers and late offers will not be considered									
SL NO	Purchase Req.no	item no	Material Code, HSN No.	Drg no - Ver , Rev & Spec - Ver , Rev,Spec-Var		Description		Unit	Qty	Delivery Date	Schedule Qty		
81	8000088342	40	HE9711834944 84049000	41631000665-01,00,HE51370,00,NA		SPH.DSH OD1700/981X32(MIN) MATCH OD3064		EA	1.000	30.09.2019	1.000		
82	8000087926	10	HE9718814027	41622600340-01,00,HE51370,00,NA		DISHED END TORI(ID1500X13(MIN))		EA	2.000	30.09.2019	2.000		
83	8000087926	20	HE9718814035	41622600340-02,00,HE51370,00,NA		DISHED END TORI(ID1400X13(MIN))		EA	1.000	30.09.2019	1.000		
84	8000087926	30	HE9718814043	41622600340-03,00,HE51370,00,NA		DISHED END TORI(ID1250X30(MIN))		EA	3.000	30.09.2019	3.000		
Special Remarks													
CheckList of Quality Interventions: BHEL reserves the right to enforce any or all of the following checks during execution of the order. There is no additional cost to the vendor on account of these checks.													
								TEST CERTIFICATE REQD: Y GUARANTEE REQ : Y SAMPLE REQD : N BID TYPE : TWO PART			For and on-behalf of Bharat Heavy Electricals Limited. M. Chaithanya Kumar Dy.MGR/Pur(HE&F)Ph.040-2318 2390		

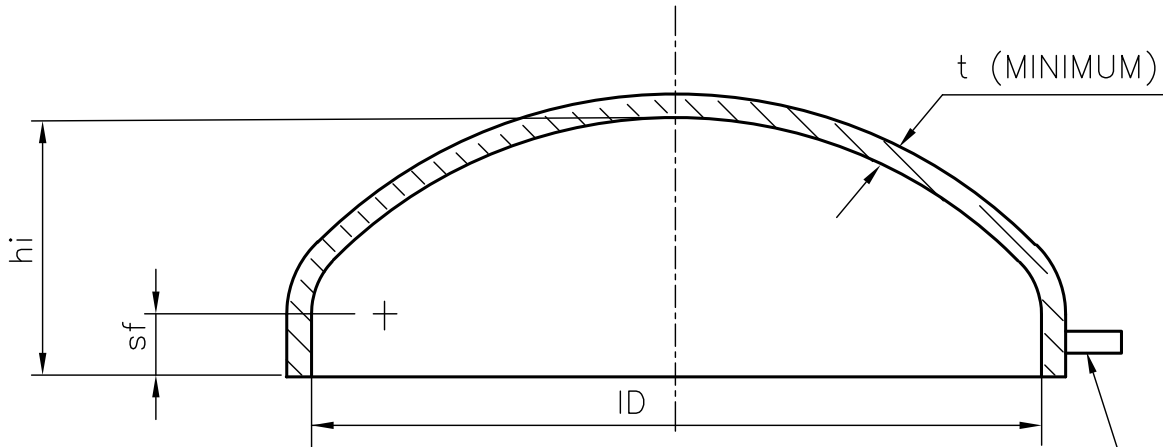
INVENTORY NO. SIGN. AND DATE REF. DRG. NO. HP-F03

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3-175-01-02505



t =MIN. THICK OF DISHED END AFTER FORMING.
hi=INSIDE HEIGHT WITH STRAIGHT FACE.
sf=STRAIGHT FACE (INSIDE)
T = PLATE THICKNESS BEFORE FORMING.

3 NO. OF LIFTING LUGS AT 120°.(AT STRAIGHT FACE.)
(TO BE D.P. CHECKED AFTER WELDING)
CERTIFIED BY BHEL APPROVED TPIA

NOTES:-

- 1. SHAPE:- 2:1 ELLIPSODIAL.
- 2. MATERIAL:SA 516 GR 70 WITH S1,S5 AND S8 SUPPLEMENTARY REQUIREMENTS AS PER ASME SEC II PART-A EDN AND ADDENDA AS PER P.O/P.R
- 3. DISHED END SHALL BE OF SEAM LESS CONSTRUCTION.
- 4. PRODUCT STANDARD :HE51370 REV (LATEST AS PER P.O. / P.R.)
- 5. QUALITY PLAN :HY/HE/016/DE REV (LATEST AS PER P.O / P.R.)
- 6. INSPECTION & CERTIFICATION BY M/S CIB & BHEL APPROVED TPIA.
(NO CIB IF IMPORTED)

ITEM No	DESCRIPTION	MATERIAL CODE	DIMENSIONS							REMARKS
			ID	hi	t	sf	MAX WORKING		WEIGHT IN (kg)	
							PR. Kg/Sq.Cm(g)	TEMP °C		
1	SHELL DISHED END FOR H.P.HEATER-7A/7B	HE9711813017	1800	500	28	50	32	239	965	UT FOR PLATE BEFORE AND AFTER FORMINIG.
2	SHELL DISHED END FOR H.P.HEATER-8A/8B	HE9711813025	1800	500	57	50	75	292	1980	
3	SHELL DISHED END FOR H.P.HEATER-9A/9B	HE9711813033	1600	450	60	50	92	305	1790	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

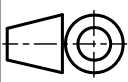
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

DRN.	NAME RAJESH M	SIGN. M RAJESH	DATE 07.09.18	NO.OF VAR.
CHD.	AK SAHOO	AK	07.09.18	NA
APPD.	K KISHORE KUMAR	KK	07.09.18	

REV.	DATE	ALTERED	CHECKED	APPD
ZONE				

DEPT. HEE CODE 405

GRADE OF TOL.DIM. C/M/F



SCALE NTS

WEIGHT (KG)

REF. TO ASSY DRG. NA

ITEM NO. NA NO.OF ITEMS NA

TITLE DISHED END

CARD CODE

DRAWING NO. 3-175-01-02505

REV. 00

SHEET No. 1 NO OF SHEETS 1

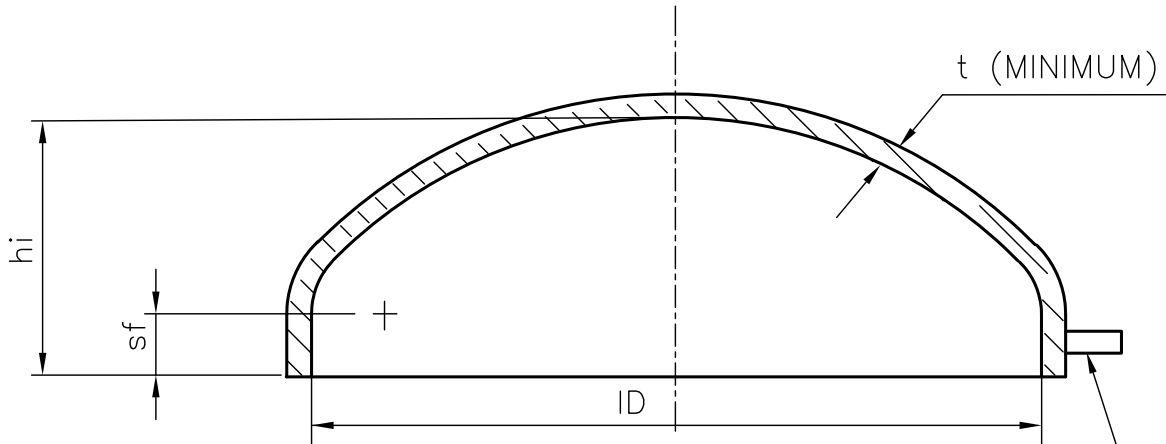
INVENTORY NO. SIGN. AND DATE REF. DRG. NO. HP-F03

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FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. 3-175-01-02539



t = MIN. THICK OF DISHED END AFTER FORMING.
hi=INSIDE HEIGHT WITH STRAIGHT FACE.
sf=STRAIGHT FACE (INSIDE)
T = PLATE THICKNESS BEFORE FORMING.

3 NO. OF LIFTING LUGS AT 120°.(AT STRAIGHT FACE.)
(TO BE D.P. CHECKED AFTER WELDING)
CERTIFIED BY BHEL APPROVED TPIA

NOTES:-

- 1. SHAPE:- 2:1 ELLIPSODIAL.
- 2. MATERIAL: SA 516 GR 70 WITH S1,S5 AND S8 SUPPLEMENTARY REQUIREMENTS AS PER ASME SEC II PART-A, EDN AND ADDENDA AS PER P.O/P.R
- 3. DISHED END SHALL BE OF SEAM LESS CONSTRUCTION.
- 4. PRODUCT STANDARD : HE51370 REV (LATEST AS PER P.O. / P.R.)
- 5. QUALITY PLAN : HY/HE/016/DE REV (LATEST AS PER P.O / P.R.)
- 6. INSPECTION & CERTIFICATION BY M/S CIB & BHEL APPROVED TPIA. (NO CIB IF IMPORTED)

ITEM No	DESCRIPTION	MATERIAL CODE	DIMENSIONS							REMARKS
			ID	hi	t	sf	MAX WORKING		WEIGHT IN (kg)	
							PR. Kg/Sq.Cm(g)	TEMP °C		
01	SHELL DISHED END FOR H.P.HEATER-7	HE9711833050	2200	600	31	50	30	235	1659	UT FOR PLATE BEFORE AND AFTER FORMINIG.
02	SHELL DISHED END FOR H.P.HEATER-8	HE9711833042	2200	600	67	50	74	290	3832	
03	SHELL DISHED END FOR H.P.HEATER-9	HE9711833034	2050	562.5	86	50	103	315	4297	

TEST COUPON DETAILS

ITEM No.	DESCRIPTION	MATERIAL CODE	DIMENSIONS	WEIGHT IN KG.
04	TEST COUPON FOR DISHED END HE9711833050	HE9711503131	250 X 250 x T	~17.68
05	TEST COUPON FOR DISHED END HE9711833042	HE9711503140	250 X 250 x T	~39.30
06	TEST COUPON FOR DISHED END HE9711833034	HE9711503158	250 X 250 x T	~49.12

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

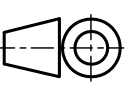
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD

DRN.	NAME S. BHATTACHARYA	SIGN. S. B.	DATE 06.02.19	NO.OF VAR.
CHD.	AK SAHOO	As	06.02.19	NA
APPD.	K KISHORE KUMAR	As	06.02.19	

REV.	DATE	ALTERED	CHECKED	APPD
ZONE				

DEPT. HEE CODE 405

GRADE OF TOL.DIM. C/M/F



SCALE NTS

WEIGHT (KG)

REF. TO ASSY DRG. NA

ITEM NO. NA NO.OF ITEMS NA

TITLE DISHED END

CARD CODE

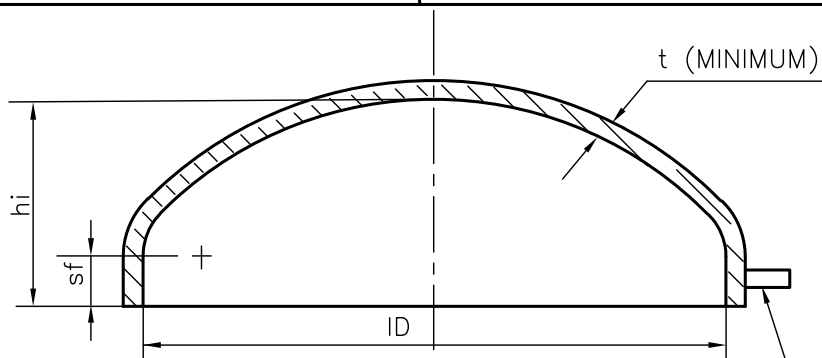
DRAWING NO. 3-175-01-02539

REV. 00

SHEET No. 1 NO OF SHEETS 1

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED
IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHD./APPD.				CHD./APPD.				CHD./APPD.	



t = MIN. THICK OF DISHED END AFTER FORMING.

hi = INSIDE HEIGHT WITH STRAIGHT FACE.

sf = STRAIGHT FACE (INSIDE)

T = PLATE THICKNESS BEFORE FORMING.

4 NO. OF LIFTING LUGS AT 90°.

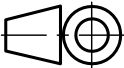
(AT STRAIGHT FACE.) TO BE D.P.
CHECKED AFTER WELDING.

CERTIFIED BY BHEL APPROVED TPIA

ITEM No.	MATERIAL CODE	ID	hi	t	sf	WEIGHT IN KG.
01	HE9711814676	1650	462.5	13	50	400
02	HE9711814684	1850	512.5	13	50	500
03	HE9711814692	1400	400	30	50	685
04	HE9711814706	1570	442.5	34	50	945

NOTES:-

- MATERIAL: SA 516 GR 70 WITH S1, S5 AND S8 SUPPLEMENTARY REQUIREMENTS
AS PER ASME SEC II PART-A EDN AND ADDENDA AS PER P.O/P.R
- TECHNICAL REQUIREMENTS: AS PER PRODUCT STANDARD HE51370 REVISION (LATEST AS PER P.O/INDENT).
- QUALITY REQUIREMENTS AS PER QP No. HY/HE/016/DE REVISION (LATEST AS PER P.O/INDENT).
- SHAPE : 2:1 ELLIPSOIDAL
- INSPECTION AGENCY : AS PER P.O/INDENT.
- DISHED END SHALL BE OF SEAMLESS CONSTRUCTION.
- DISHED END SHALL BE ULTRASONICALLY TESTED BEFORE AND AFTER FORMING.
- HEAT TREATMENT (NORMALISING) CYCLE :
 - RATE OF HEATING: 400 °F (222 °C) / Hr PER INCH Thk.(Max)
(BUT NOT MORE THAN 400°F (222°C)/Hr)
 - HOLDING TEMPERATURE: 1652 °F (900 °C) – 1688 °F (920 °C).
 - HOLDING TIME : 30 MINUTES (MINIMUM).
- APPLICABLE CODE : AS PER P.O / INDENT.

REMARKS	ITEM NO	DESCRIPTION	STD	MATL. CODE		A	UNIT	UNIT Wt.	
				MATL. SPEN.		C		QTY.	
 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD					NAME		SIGN.	DATE	NO.OF VAR.
				DRN.	RAJESH M		M RAJESH	26.12.18	
				CHD.	A K SAHOO		AKS	26.12.18	NA
				APPD.	K.KISHORE KUMAR		KKK	26.12.18	
DEPT. HE ENGG	UNTOL. DIM. GR. Ø/M/F		SCALE NTS	WEIGHT (KG) NA	REF. TO ASSY DRG. NA			ITEM NO. NA	NO.OF ITEMS NA
CODE 405									
TITLE DISHED END				CARD CODE NA	DRAWING NO.				REV.
					4-162-22-00421				00
					SHT No. 1		NO OF SHT. 1		

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IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

REF. DRG. NO.

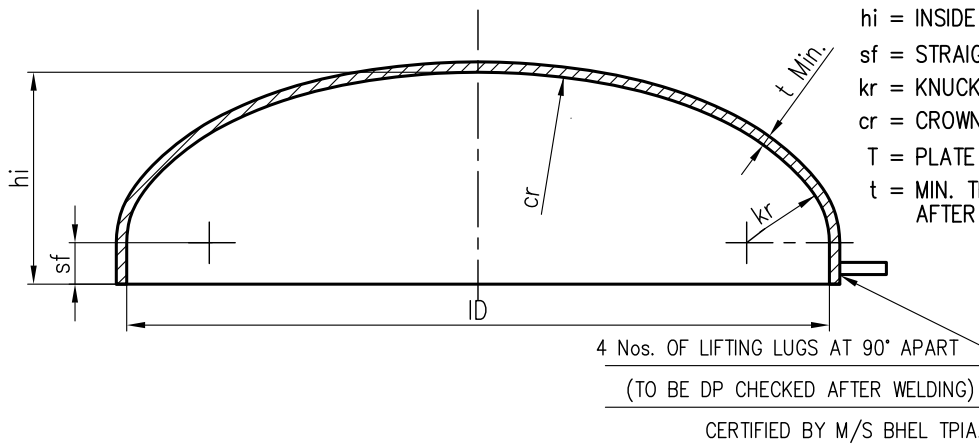
4G00647.DWG

FILE NAME

INVENTORY NO

GEN. DIM. LIMITS, FITS, & TOLERANCES AS PER P.S. :- HY0230261

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHD./APPD.				CHD./APPD.				CHD./APPD.	



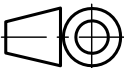
ITEM No.	DESCRIPTION	MATERIAL CODE	ID	hi	kr	cr	t	sf	WEIGHT IN KG.
01	SHELL DISHED END FOR LPH-3 & 4	HE9718814027	1500	445	250	1200	13	50	350
02	SHELL DISHED END FOR LPH-5	HE9718814035	1400	412	225	1120	13	50	306
03	CHANNEL DISHED END FOR LPH-3,4&5	HE9718814043	1250	375	200	1000	30	50	525

TEST COUPON DETAILS

ITEM No.	DESCRIPTION	MATERIAL CODE	DIMENSIONS	WEIGHT IN KG.
01A	TEST COUPON FOR DISHED END HE9718814027	HE9711504553	250 X 250 x T	8.0
02A	TEST COUPON FOR DISHED END HE9718814035	HE9711504561	250 X 250 x T	8.0
03A	TEST COUPON FOR DISHED END HE9718814043	HE9711504570	250 X 250 x T	18.0

NOTES:-

1. MATERIAL : SA 516 GR.70
2. TECHNICAL REQUIREMENTS: AS PER PRODUCT STANDARD HE51370 REVISION (LATEST AS PER P.O/INDENT).
3. QUALITY REQUIREMENTS AS PER QP No. HY/HE/016/DE REVISION (LATEST AS PER P.O/INDENT).
4. SHAPE : TORISPHERICAL
5. INSPECTION AGENCY : AS PER P.O/INDENT.
6. DISHED END SHALL BE OF SEAMLESS CONSTRUCTION.
7. DISHED END SHALL BE ULTRASONICALLY TESTED BEFORE AND AFTER FORMING.
8. APPLICABLE CODE : AS PER P.O / INDENT.

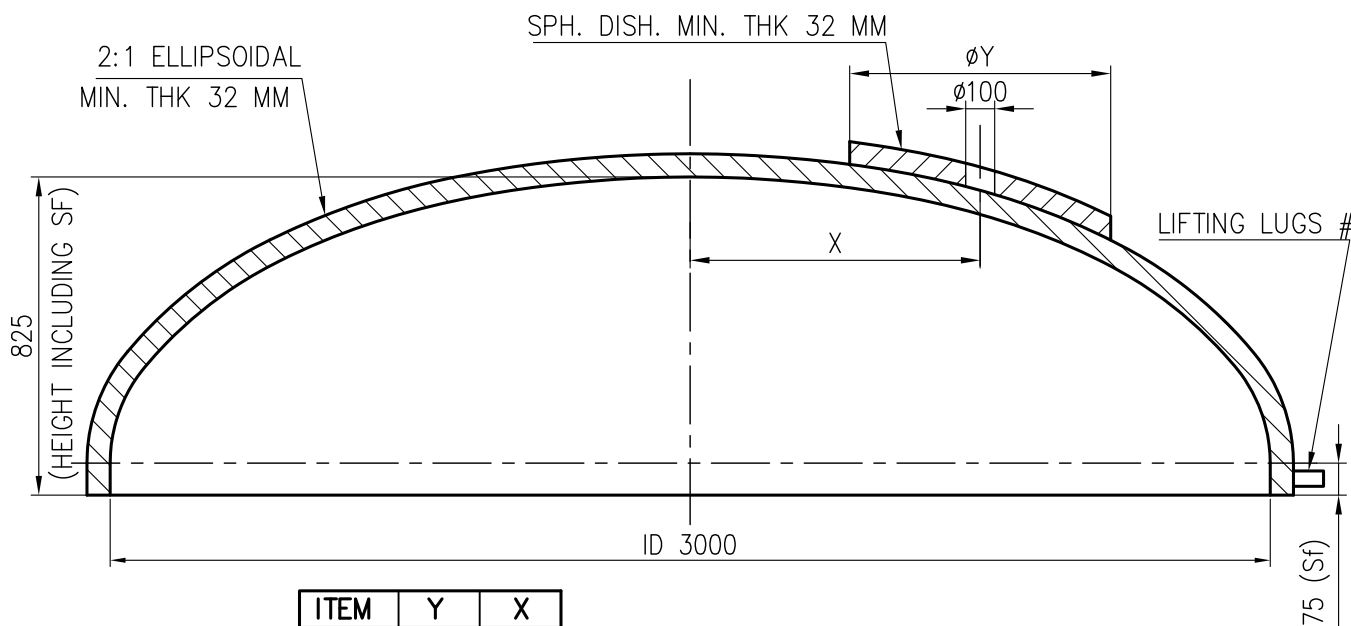
REMARKS	ITEM NO	DESCRIPTION	STD	MATL. CODE	A	UNIT	UNIT Wt.	
				MATL. SPEN.	C		QTY.	
 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD				NAME	SIGN.	DATE	NO.OF VAR.	
				DRN.	S.BHATTACHARYA	SAPTARSHI	11.09.17	NA
				CHD.	A K SAHOO	AKS	11.09.17	
				APPD.	K.KISHORE KUMAR	KKK	11.09.17	
	DEPT. HE ENGG	UNTOL. DIM.		SCALE	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE 405	GR. Ø/M/F	NTS		NA	NA	NA	NA	
TITLE DISHED END				CARD CODE	DRAWING NO.		REV.	
				NA	4-162-26-00340		00	
				SHT No. 1		NO OF SHT. 1		

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

INVENTORY NO. SIGN. AND DATE REF. DRG. NO. THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

REV.	DATE	ALTERED	CHECKED	APPD	REV.	DATE	ALTERED	CHECKED	APPD	ADDITIONAL INFORMATION
										STATUS OF DRAWING
										DISTRIBUTION OF PRINTS



ITEM	Y	X
01	1700	256
02	950	0
03	500	700

DESIGN PRESSURE: 15.0 Kg/sq.cm (g)
DESIGN TEMPERATURE: 415° C

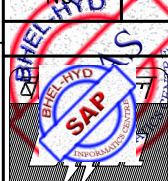
NOTES

1. MATERIAL SHALL CONFIRM TO SA516 Gr.70 OF ASME SEC-II PART-A YEAR OF EDITION AS PER INDENT/ PO.
2. INSPECTION: BY M/s IBR/DOB & BHEL APPROVED TPIA.
3. CERTIFICATION: IBR FORM III-C.
4. DESIGN CODE: IBR REGULATIONS (CLASS-1 BOILER).
5. PLATE SHALL BE UT TESTED BEFORE FORMING (NOT REQUIRED IF ALREADY UT TESTED AT MILLS)
6. SPHERICAL DISH SHALL BE OF SEAMLESS CONSTRUCTION & PROFILE SHOULD MATCH WITH DISHED DISHED END OD AS SHOWN IN THE DRG.
7. NORMALISING SHALL BE DONE FOR SPHERICAL DISH ALSO AFTER PRESSING.
8. TEST COUPON TESTING IS REQUIRED.
9. TECHNICAL & DELIVER CONDITIONS: AS PER PRODUCT STANDARD HE51370.

FOR PLATE WELDING REFER DRG. 4-163-10-00667.

3 NOS. LIFTING LUGS TO BE WELDED ON Sf AT 120° AND TO BE DP CHECKED AFTER WELDING.

ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	UNIT Wt.
			MATL. SPEN.	QTY.

	BHARAT HEAVY ELECTRICALS LTD.		DRN.	NAME	SIGN.	DATE	NO. OF
	HYDERABAD		CHD.	BINAY JHA	BINAY JHA	01.02.18	VAR.
			APPD.	SUBRATA RAY	SUBRATA RAY	01.02.18	

DEPT. HED	GRADE OF TOL. DIM. C/M/F	SCALE NTS	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO. OF ITEMS
CODE 405						

TITLE	SPHERICAL DISH WITH 2:1 ELLIPSOIDAL DISHED END	CARD CODE	DRAWING NO. 4-163-10-00665	REV. 00
SHEET NO. 1		NO. OF SHEETS 1		

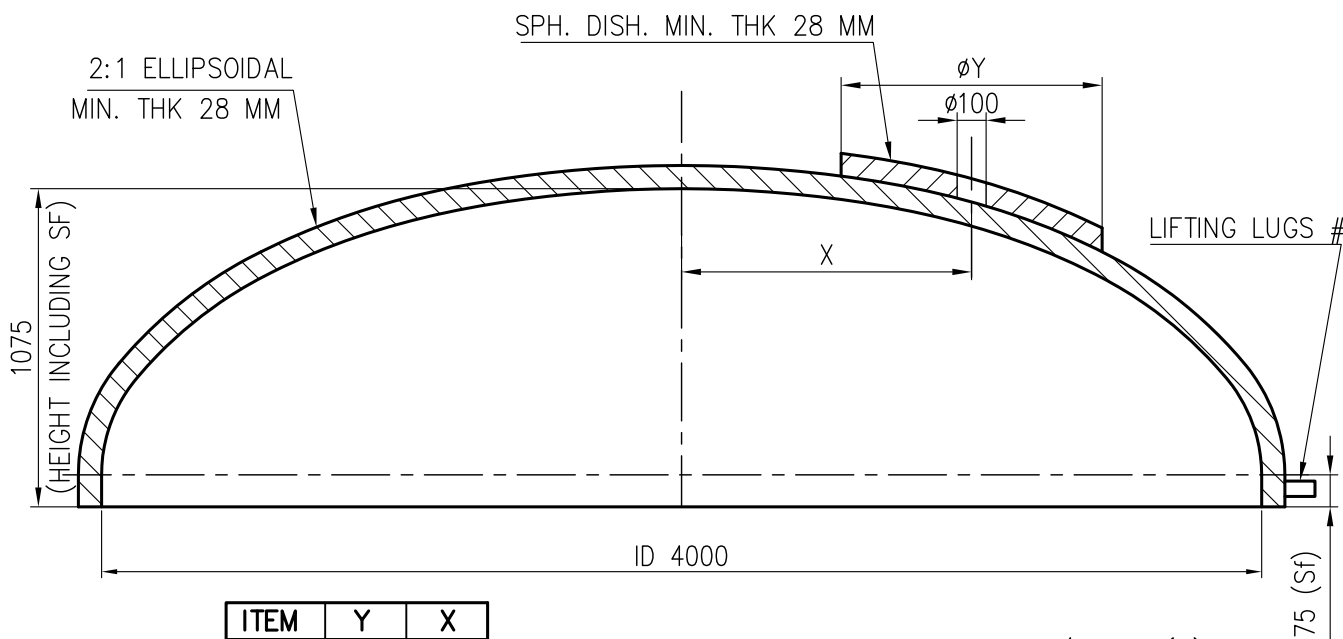
This Drawing is printed from Engineering Digital Archive System (EDAS). Therefore signatures are not essentially required.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

INVENTORY NO. SIGN. AND DATE REF. DRG. NO. THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY

REV.	DATE	ALTERED	CHECKED	APPD.	REV.	DATE	ALTERED	CHECKED	APPD.	ADDITIONAL INFORMATION
										STATUS OF DRAWING
										DISTURIBUTION OF PRINTS



DESIGN PRESSURE: 15.0 Kg/sq.cm (g)
DESIGN TEMPERATURE: 260° C

NOTES

1. MATERIAL SHALL CONFIRM TO SA516 Gr.70 OF ASME SEC-II PART-A YEAR OF EDITION AS PER INDENT/ PO.
2. INSPECTION: BY M/s IBR/DOB & BHEL APPROVED TPIA.
3. CERTIFICATION: IBR FORM III-C.
4. DESIGN CODE: IBR REGULATIONS (CLASS-1 BOILER).
5. PLATE SHALL BE UT TESTED BEFORE FORMING (NOT REQUIRED IF ALREADY UT TESTED AT MILLS)
6. SPHERICAL DISH SHALL BE OF SEAMLESS CONSTRUCTION & PROFILE SHOULD MATCH WITH DISHED DISHED END OD AS SHOWN IN THE DRG.
7. NORMALISING SHALL BE DONE FOR SPHERICAL DISH ALSO AFTER PRESSING.
8. TEST COUPON TESTING IS REQUIRED.
9. TECHNICAL & DELIVER CONDITIONS: AS PER PRODUCT STANDARD HE51370.

FOR PLATE WELDING REFER DRG. 4-163-10-00668.

3 NOS. LIFTING LUGS TO BE WELDED ON Sf AT 120° AND TO BE DP CHECKED AFTER WELDING.

ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	UNIT Wt.
			MATL. SPEN.	QTY.

	BHARAT HEAVY ELECTRICALS LTD.		DRN.	NAME	SIGN.	DATE	NO.OF VAR.
	HYDERABAD		CHD.	BINAY JHA	BINAY JHA	01.02.18	
			APPD.	SUBRATA RAY	SUBRATA RAY	01.02.18	

DEPT. HED	GRADE OF TOL.DIM. C/M/F	SCALE NTS	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE 405						

TITLE	SPHERICAL DISH WITH 2:1 ELLIPSOIDAL DISHED END	CARD CODE	DRAWING NO. 4-163-10-00666	REV. 00
SHEET NO. 1		NO OF SHEETS 1		

FIRST ANGLE PROJECTION

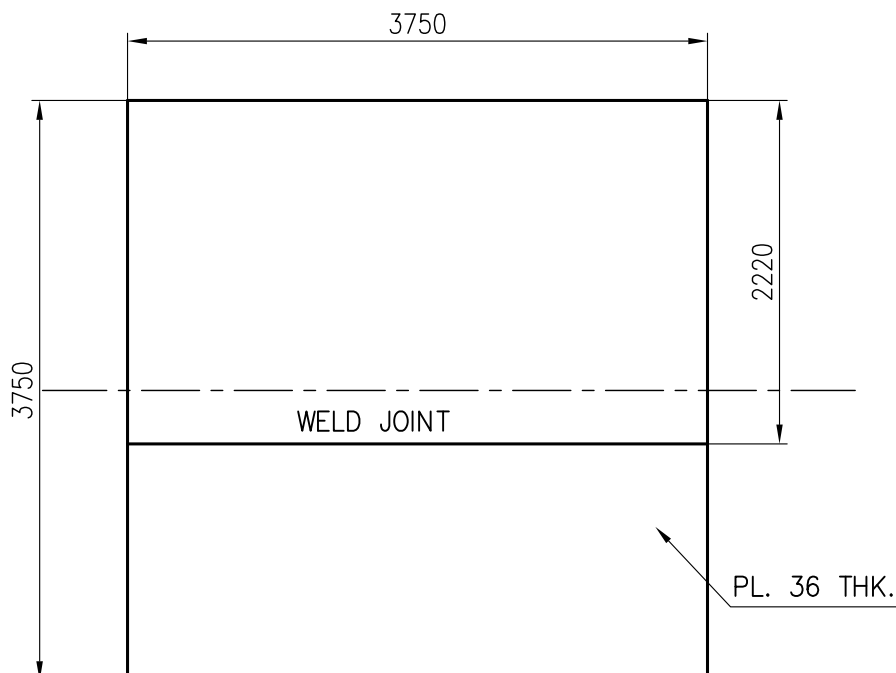
(ALL DIMENSIONS ARE IN mm)

BHARAT HEAVY ELECTRICALS LIMITED.

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REV.	DATE	ALTERED	CHECKED	APPD	REV.	DATE	ALTERED	CHECKED	APPD	ADDITIONAL INFORMATION
										STATUS OF DRAWING
										DISTRIBUTION OF PRINTS



NOTES

1. MATERIAL SHALL CONFIRM TO SA516 Gr.70 OF ASME SEC-II PART-A YEAR OF EDITION AS PER INDENT/ PO.
2. PLATE SHALL BE UT TESTED BEFORE FORMING (NOT REQUIRED IF ALREADY UT TESTED AT MILLS)
3. FOR OTHER DETAILS REFER PRODUCT STANDARD HE51370 & DRG. 4-163-10-00665.
2. REFER DET. J-005/A OR J-009/A OF WELD DETAILS AND WPS. DRG. 2-163-10-00014 FOR PLATE WELDING.

ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	UNIT Wt.
			MATL. SPEN.	QTY.
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		DRN.	NAME B UMA	SIGN. Umas
		CHD.	BINAY K JHA	BINAY K JHA
		APPD.	SUBRATA RAY	SUBRATA RAY
DEPT. HED	GRADE OF TOL.DIM. C/M/F	SCALE NTS		WEIGHT (KG)
CODE 405		REF. TO ASSY DRG.		ITEM NO.
TITLE 2:1 ELLIPSOIDAL DISHED END PLATE		CARD CODE	DRAWING NO. 4-163-10-00667	
Feb Fri 2 13:37 2018		SHEET NO. 1		NO. OF SHEETS 1

FIRST ANGLE PROJECTION

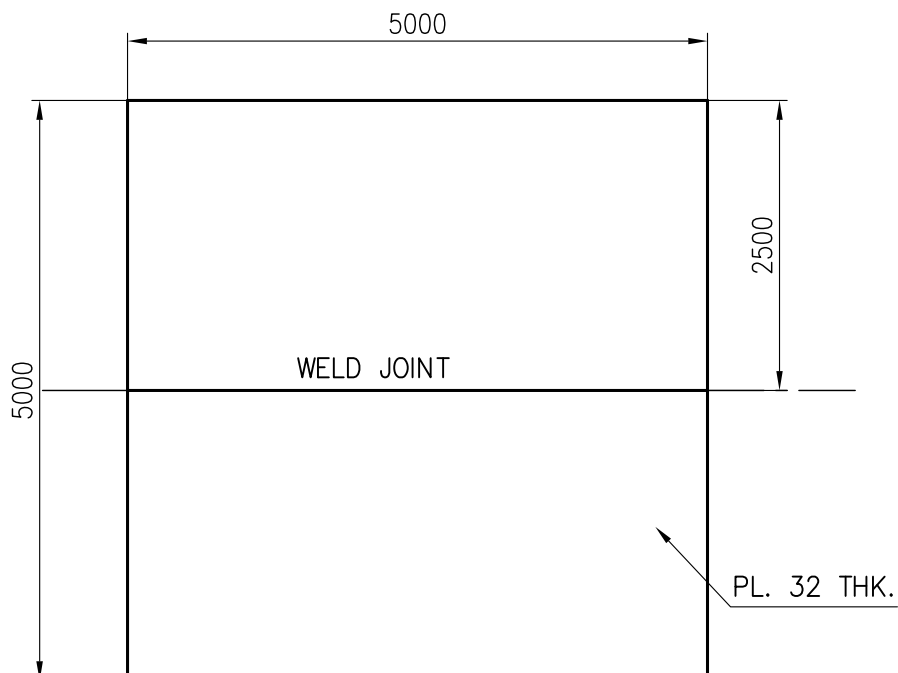
(ALL DIMENSIONS ARE IN mm)

BHARAT HEAVY ELECTRICALS LIMITED.

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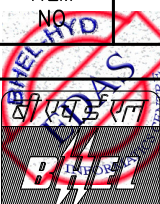
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REV.	DATE	ALTERED	CHECKED	APPD	REV.	DATE	ALTERED	CHECKED	APPD	ADDITIONAL INFORMATION
										STATUS OF DRAWING
										DISTURIBUTION OF PRINTS

**NOTES**

1. MATERIAL SHALL CONFIRM TO SA516 Gr.70 OF ASME SEC-II PART-A YEAR OF EDITION AS PER INDENT/ PO.
2. PLATE SHALL BE UT TESTED BEFORE FORMING (NOT REQUIRED IF ALREADY UT TESTED AT MILLS)
3. FOR OTHER DETAILS REFER PRODUCT STANDARD HE51370 & DRG. 4-163-10-00666.
2. REFER DET. J-005/A OR J-009/A OF WELD DETAILS AND WPS. DRG. 2-163-10-00014 FOR PLATE WELDING.

ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	UNIT Wt.
			MATL. SPEN.	QTY.

		DRN.	NAME	SIGN.	DATE	NO. OF VAR.
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		CHD.	BINAY K JHA	BINAY K JHA	01.02.18	
		APPD.	SUBRATA RAY	SUBRATA RAY	01.02.18	

DEPT. HED	GRADE OF TOL. DIM. C/M/F	SCALE NTS	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO. OF ITEMS
CODE 405						

TITLE	CARD CODE	DRAWING NO.	REV.
2:1 ELLIPSOIDAL DISHED END PLATE		4-163-10-00668	00
SHEET NO.		NO. OF SHEETS	

Feb Fri 2 13:37 2018

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FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

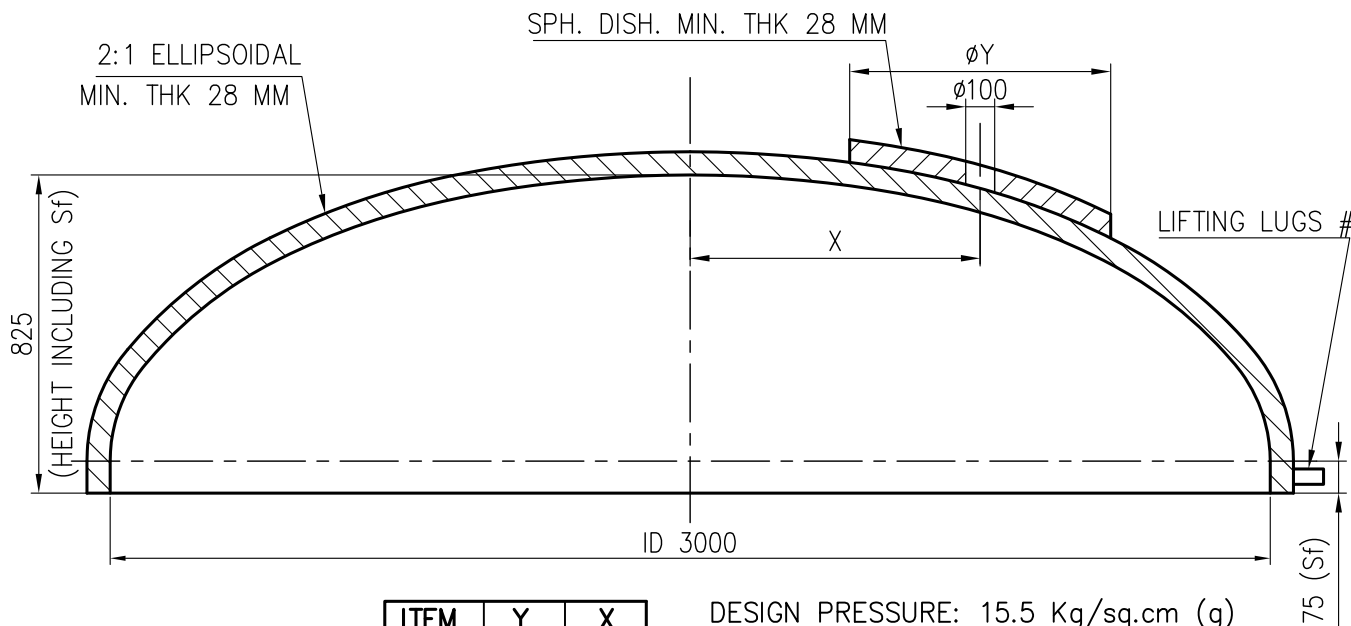
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INVENTORY NO. SIGN. AND DATE REF. DRG. NO.

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REV.	DATE	ALTERED	CHECKED	APPD	REV.	DATE	ALTERED	CHECKED	APPD	ADDITIONAL INFORMATION
										STATUS OF DRAWING
										DISTURIBUTION OF PRINTS



ITEM	Y	X
01	1700	256
02	950	0
03	500	700

DESIGN PRESSURE: 15.5 Kg/sq.cm (g)
DESIGN TEMPERATURE: 400° C

NOTES

1. MATERIAL SHALL CONFIRM TO SA516 Gr.70 OF ASME SEC-II PART-A YEAR OF EDITION AS PER INDENT/ PO.
2. INSPECTION: BY M/s IBR/DOB & BHEL APPROVED TPIA.
3. CERTIFICATION: IBR FORM III-C.
4. DESIGN CODE: IBR REGULATIONS (CLASS-1 BOILER).
5. PLATE SHALL BE UT TESTED BEFORE FORMING (NOT REQUIRED IF ALREADY UT TESTED AT MILLS)
6. SPHERICAL DISH SHALL BE OF SEAMLESS CONSTRUCTION & PROFILE SHOULD MATCH WITH DISHED DISHED END OD AS SHOWN IN THE DRG.
7. NORMALISING SHALL BE DONE FOR SPHERICAL DISH ALSO AFTER PRESSING.
8. TEST COUPON TESTING IS REQUIRED.
9. TECHNICAL & DELIVER CONDITIONS: AS PER PRODUCT STANDARD HE51370.

FOR PLATE WELDING REFER DRG. 4-163-10-00683.

3 NOS. LIFTING LUGS TO BE WELDED ON Sf AT 120° AND TO BE DP CHECKED AFTER WELDING.

ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	UNIT Wt.
			MATL. SPEN.	QTY.

	BHARAT HEAVY ELECTRICALS LTD.		DRN.	NAME	SIGN.	DATE	NO. OF
	HYDERABAD		CHD.	B. VENKANNA	BINAY KR JHA	28.09.18	VAR.
			APPD.	SUBRATA RAY	SUBRATA RAY	28.09.18	

DEPT. HED	GRADE OF TOL. DIM. C/M/F	SCALE NTS	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO. OF ITEMS
CODE 405						

TITLE	CARD CODE	DRAWING NO.	REV.
SPHERICAL DISH WITH 2:1 ELLIPSOIDAL DISHED END		4-163-10-00682	00
SHEET NO.		NO. OF SHEETS	

FIRST ANGLE PROJECTION

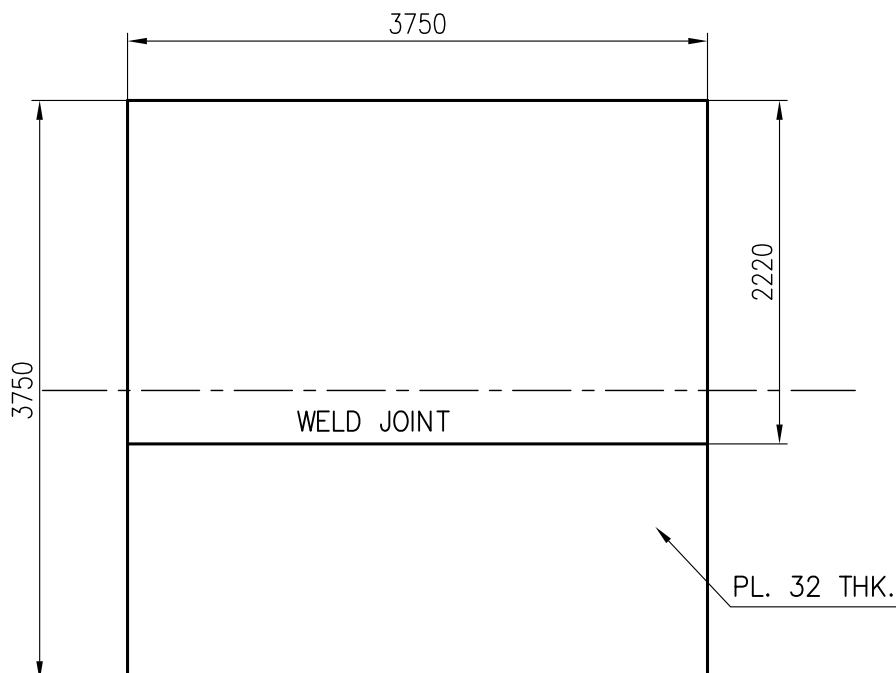
(ALL DIMENSIONS ARE IN mm)

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REV.	DATE	ALTERED	CHECKED	APPD	REV.	DATE	ALTERED	CHECKED	APPD	ADDITIONAL INFORMATION
										STATUS OF DRAWING
										DISTRIBUTION OF PRINTS



NOTES

1. MATERIAL SHALL CONFIRM TO SA516 Gr.70 OF ASME SEC-II PART-A YEAR OF EDITION AS PER INDENT/ PO.
2. PLATE SHALL BE UT TESTED BEFORE FORMING (NOT REQUIRED IF ALREADY UT TESTED AT MILLS)
3. FOR OTHER DETAILS REFER PRODUCT STANDARD HE51370 & DRG. 4-163-10-00682.
2. REFER DET. J-005/A OR J-009/A OF WELD DETAILS AND WPS. DRG. 2-163-10-00014 FOR PLATE WELDING.

ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	UNIT Wt.				
			MATL. SPEN.	QTY.				
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		DRN.	NAME B.VENKANNA	SIGN B.VENKANNA	DATE 28.09.18	NO.OF VAR.		
		CHD.	BINAY KR JHA	BINAY KR JHA	28.09.18			
		APPD.	SUBRTA RAY	SUBRATA RAY	28.09.18			
DEPT. HED	GRADE OF TOL.DIM. C/M/F	SCALE NTS		WEIGHT (KG)		REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE 405								
TITLE 2:1 ELLIPSOIDAL DISHED END PLATE				CARD CODE	DRAWING NO. 4-163-10-00683		REV. 00	
Oct Fri 5 10:34 2018				This Drawing is printed from Engineering Digital Archive System (EDAS). Therefore signatures are not essentially required.		SHEET NO. 1		NO OF SHEETS

FIRST ANGLE PROJECTION

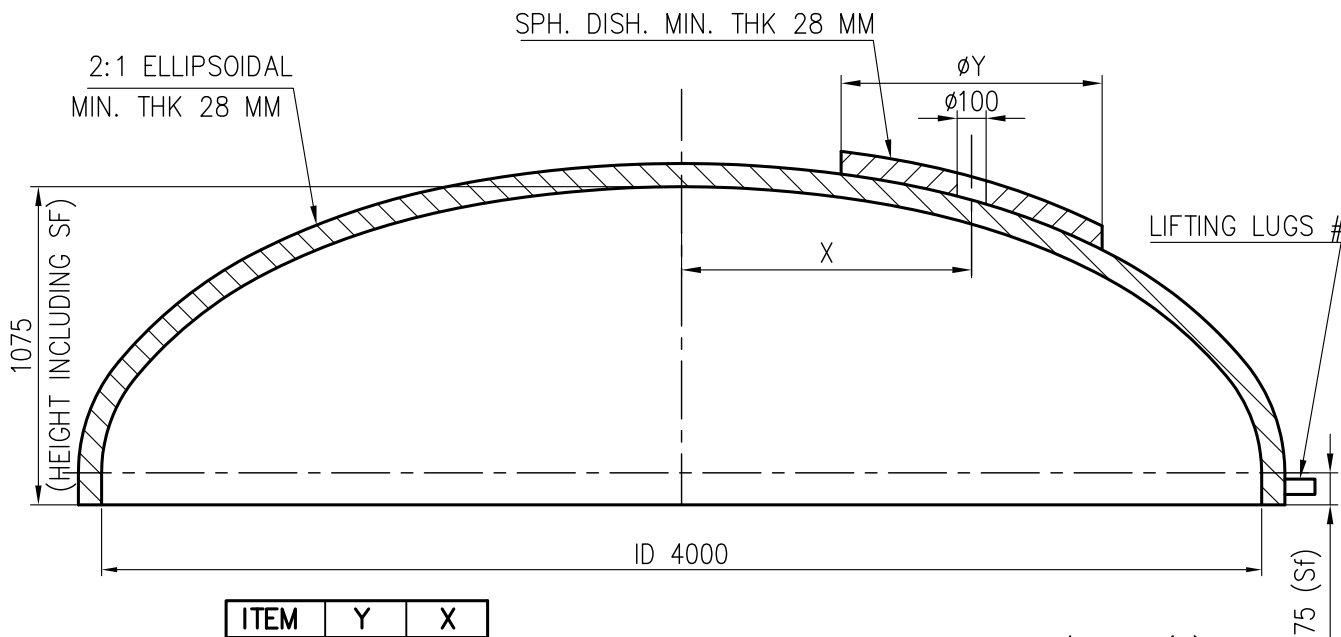
(ALL DIMENSIONS ARE IN mm)

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INVENTORY NO. SIGN. AND DATE REF. DRG. NO.

REV.	DATE	ALTERED	CHECKED	APPD.	REV.	DATE	ALTERED	CHECKED	APPD.	ADDITIONAL INFORMATION
										STATUS OF DRAWING
										DISTRIBUTION OF PRINTS



DESIGN PRESSURE: 15.5 Kg/sq.cm (g)
DESIGN TEMPERATURE: 260° C

NOTES

1. MATERIAL SHALL CONFIRM TO SA516 Gr.70 OF ASME SEC-II PART-A YEAR OF EDITION AS PER INDENT/ PO.
2. INSPECTION: BY M/s IBR/DOB & BHEL APPROVED TPIA.
3. CERTIFICATION: IBR FORM III-C.
4. DESIGN CODE: IBR REGULATIONS (CLASS-1 BOILER).
5. PLATE SHALL BE UT TESTED BEFORE FORMING (NOT REQUIRED IF ALREADY UT TESTED AT MILLS)
6. SPHERICAL DISH SHALL BE OF SEAMLESS CONSTRUCTION & PROFILE SHOULD MATCH WITH DISHED DISHED END OD AS SHOWN IN THE DRG.
7. NORMALISING SHALL BE DONE FOR SPHERICAL DISH ALSO AFTER PRESSING.
8. TEST COUPON TESTING IS REQUIRED.
9. TECHNICAL & DELIVER CONDITIONS: AS PER PRODUCT STANDARD HE51370.

FOR PLATE WELDING REFER DRG. 4-163-10-00685.

3 NOS. LIFTING LUGS TO BE WELDED ON Sf AT 120° AND TO BE DP CHECKED AFTER WELDING.

ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	UNIT Wt.
			MATL. SPEN.	QTY.

	BHARAT HEAVY ELECTRICALS LTD.		DRN.	NAME	SIGN.	DATE	NO. OF
	HYDERABAD		CHD.	B. VENKANNA	BINAY KR JHA	28.09.18	VAR.
	APPD.	SUBRATA RAY	SUBRATA RAY	28.09.18			

DEPT. HED	GRADE OF TOL. DIM. C/M/F	SCALE NTS	WEIGHT (KG)	REF. TO ASSY DRG.	ITEM NO.	NO. OF ITEMS
CODE 405						

TITLE	CARD CODE	DRAWING NO.	REV.
SPHERICAL DISH WITH 2:1 ELLIPSOIDAL DISHED END		4-163-10-00684	00
SHEET NO.		NO. OF SHEETS	

FIRST ANGLE PROJECTION

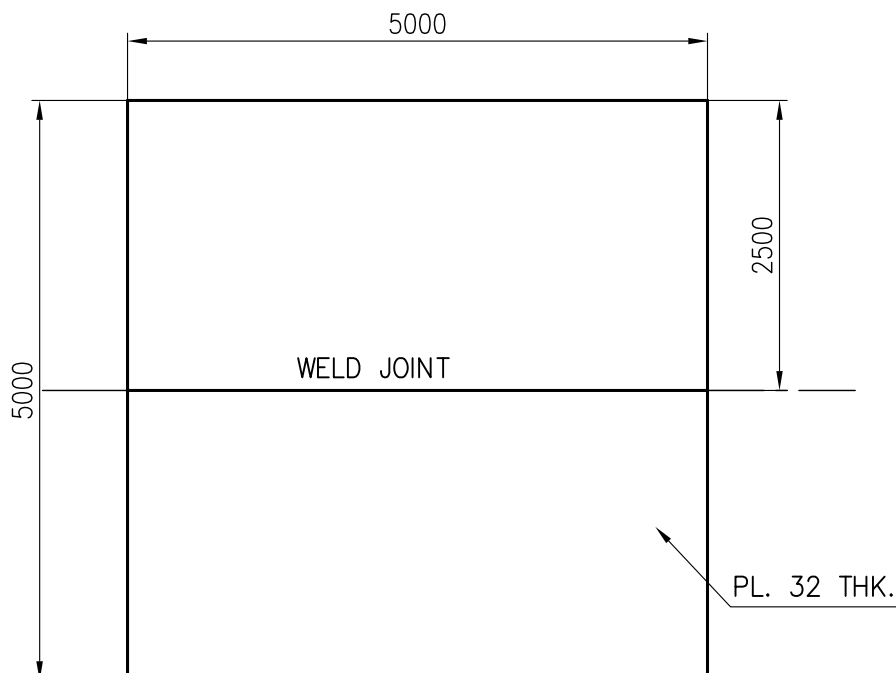
(ALL DIMENSIONS ARE IN mm)

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REV.	DATE	ALTERED	CHECKED	APPD.	REV.	DATE	ALTERED	CHECKED	APPD.	ADDITIONAL INFORMATION
										STATUS OF DRAWING
										DISTRIBUTION OF PRINTS



NOTES

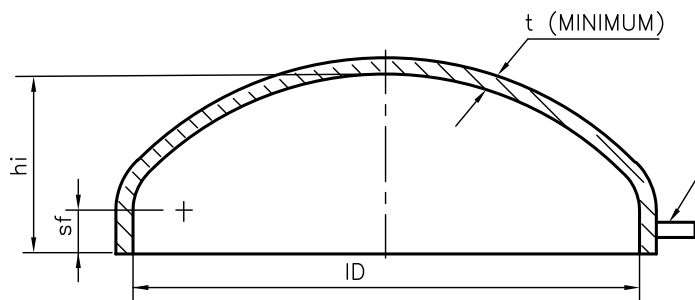
1. MATERIAL SHALL CONFIRM TO SA516 Gr.70 OF ASME SEC-II PART-A YEAR OF EDITION AS PER INDENT/ PO.
2. PLATE SHALL BE UT TESTED BEFORE FORMING (NOT REQUIRED IF ALREADY UT TESTED AT MILLS)
3. FOR OTHER DETAILS REFER PRODUCT STANDARD HE51370 & DRG. 4-163-10-00684.
2. REFER DET. J-005/A OR J-009/A OF WELD DETAILS AND WPS. DRG. 2-163-10-00014 FOR PLATE WELDING.

ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	UNIT Wt.				
			MATL. SPEN.	QTY.				
BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		DRN.	NAME B.VENKANNA	SIGN. B.VENKANNA	DATE 28.09.18	NO.OF VAR.		
		CHD.	BINAY KR JHA	BINAY KR JHA	28.09.18			
		APPD.	SUBRATA RAY	SUBRATA RAY	28.09.18			
DEPT. HED	GRADE OF TOL.DIM. C/M/F	SCALE NTS		WEIGHT (KG)		REF. TO ASSY DRG.	ITEM NO.	NO.OF ITEMS
CODE 405								
TITLE 2:1 ELLIPSOIDAL DISHED END PLATE				CARD CODE	DRAWING NO. 4-163-10-00685		REV. 00	
Oct Fri 5 10:34 2018				This Drawing is printed from Engineering Digital Archive System (EDAS). Therefore signatures are not essentially required.		SHEET NO. 1 NO OF SHEETS 1		

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHD./APPD.				CHD./APPD.				CHD./APPD.	



3 NO. OF LIFTING LUGS AT 120°.
AT STRAIGHT FACE
TO BE D.P. CHECKED AFTER WELDING
CERTIFIED BY BHEL APPROVED TPIA

t = MIN. THICK OF DISHED END AFTER FORMING.

hi = INSIDE HEIGHT WITH STRAIGHT FACE.

sf = STRAIGHT FACE (INSIDE)

VAR No	MATERIAL CODE	DIMENSIONS						
		ID	hi	t	sf	MAX WORKING		WEIGHT IN (kg)
						PR. Kg/Sq.Cm(g)	TEMP °C	
1	HE9711824060	1100	325	36	50	32	525	510

NOTES:-

1. SHAPE: - 2:1 ELLIPSODIAL.
2. MATERIAL: SA 387 GR-12 CL-2 WITH S1, S3, S5 AND S8 SUPPLEMENTARY REQUIREMENTS. AS PER ASME SEC II PART-A EDN AND ADDENDA AS PER P.O/P.R
3. PRODUCT STANDARD : HE51527 REV (LATEST AS PER P.O. / P.R.)
4. QUALITY PLAN : HY/HE/016/AS DE REV (LATEST AS PER P.O / P.R.)
5. UT SHALL BE CARRIED OUT FOR PLATE BEFORE AND AFTER FORMING.
6. DISHED END SHALL BE OF SEAM LESS CONSTRUCTION.
7. INSPECTION & CERTIFICATION BY M/S CIB & BHEL APPROVED TPIA (NO CIB IF IMPORTED).

INVENTORY NO	FILE NAME	REF. DRG. NO.	BHEL-HYD EDAS INFORMATION	BHEL HYDERABAD	BHARAT HEAVY ELECTRICALS LTD. HYDERABAD	NAME	SIGN.	DATE	NO.OF VAR.
						DRN. RAJESH M	M RAJESH	22.09.18	
						CHD. A.K.SAHOO	A.K.SAHOO	22.09.18	
						APPD. K.KISHORE KUMAR	K.KISHORE KUMAR	22.09.18	
DEPT. HE ENGG	UNTOL. DIM. GR. Ø/M/F	SCALE NTS	WEIGHT (KG) NA	REF. TO ASSY DRG. NA	ITEM NO. NA	NO.OF ITEMS NA			
CODE 405									
TITLE				DISHED END (ALLOY STEEL)		CARD CODE NA	DRAWING NO. 4-175-01-03371		REV. 00
						SHT No. 1	NO OF SHT. 1		

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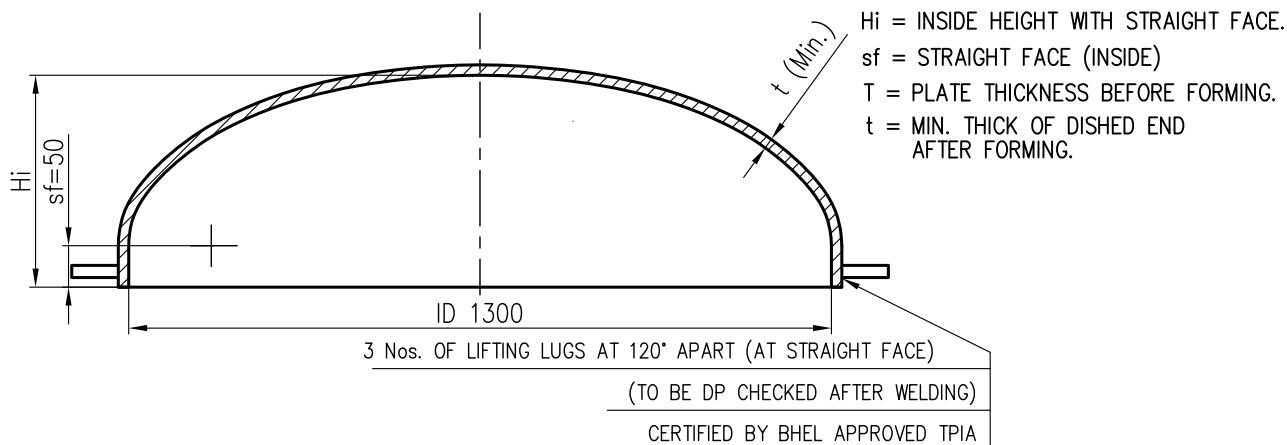
REF. DRG. NO.
4G00647.DWG

FILE NAME

INVENTORY NO

GEN. DIM. LIMITS , FITS , & TOLERANCES AS PER P.S. :- HY0230261

REV.	DATE	ALTERED		REV.	DATE	ALTERED		REV.	DATE	ALTERED	
		CHD./APPD.				CHD./APPD.				CHD./APPD.	



ITEM No.	MATL. CODE	t (Min)	Hi	Max. Working		Weight in Kg.
				Pr. Kg/SqCm.(g)	Temp. °C	
01	HE9711824388	43	375	30	531	874

TEST COUPON DETAILS

ITEM No.	DESCRIPTION	MATERIAL CODE	DIMENSIONS	WEIGHT IN KG.
01A	TEST COUPON FOR DISHED END HE9711824388	HE9711504812	250 X 250 x T	~25.0

NOTES:-

1. MATERIAL : SA 387 GR 12 CL 2 WITH SUPPLEMENTARY REQUIREMENTS S1,S3,S5 AND S8.
2. TECHNICAL REQUIREMENTS: AS PER PRODUCT STANDARD HE51527 REVISION (LATEST AS PER P.O/INDENT).
3. QUALITY REQUIREMENTS AS PER QP No. HY/HE/016/DE REVISION (LATEST AS PER P.O/INDENT).
4. SHAPE : 2:1 ELLIPSOIDAL
5. INSPECTION AGENCY : AS PER P.O/INDENT.
6. DISHED END SHALL BE OF SEAMLESS CONSTRUCTION.
7. DISHED END SHALL BE ULTRASONICALLY TESTED BEFORE AND AFTER FORMING.
8. APPLICABLE CODE : AS PER P.O / INDENT.

REMARKS	ITEM NO	DESCRIPTION	STD	MATL. CODE		A	C	UNIT	UNIT Wt.	
				MATL. SPEN.					QTY.	
 BHARAT HEAVY ELECTRICALS LTD. HYDERABAD				NAME	SIGN.	DATE	NO.OF VAR.			
			DRN.	S.BHATTACHARYA	SAPTARSHI	06.02.19	NA			
			CHD.	A K SAHOO	AKS	06.02.19	NA			
			APPD.	K.KISHORE KUMAR	KKK	06.02.19	NA			
DEPT. HE ENGG	UNTOL. DIM. GR.		SCALE	WEIGHT (KG)	REF. TO ASSY DRG.		ITEM NO.	NO.OF ITEMS		
CODE 405	Ø/M/F		NTS	NA	NA		NA	NA		
TITLE				CARD CODE NA	DRAWING NO.			REV.		
DISHED END					4-175-05-01350			00		
				SHT No.		1	NO OF SHT.		1	

TD-106-2 Rev-5	Form No.		PRODUCT STANDARD HEAT EXCHANGERS HYDERABAD		No: HE 51370 REV. NO. 00 PAGE 1 OF 3
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company <u>SPECIFICATION FOR DISHED ENDS</u> 1.0 Material: The material shall confirm to SA 516 gr. 70 (As per ASME Section II Part A, year of edition and addenda, as per Drawing/ Enquiry/ P.O). The plate shall meet the requirements of S1, S5 and S8 of supplementary requirements of ASME. 2.0 Code of Construction: The code of construction shall be ASME section VIII division 1, year of edition and addenda as per drawing/ Enquiry/ P.O.) 3.0 The dished ends up to a diameter of 1600 mm shall be pressed from a single plate by cold-forming/hot-forming/spinning. In case of spinning method is adopted, the central hole shall be plugged and radiographed 100%. 4.0 For dished ends above 1600 mm, a weld joint is permitted and the butt weld shall be fully radiographed before forming. MPI/DPT shall be carried out on weld edge preparation, back chip area and weld. Qualified welders using approved procedures, as per the requirements of ASME Section IX, latest edition shall carry out the welding. Production test coupon for weld shall be prepared and tested as per the requirements of section IX of ASME. 5.0 Tolerance: As per code of construction (para 2.0 above) 6.0 When dished ends are ordered in pairs for a single shell, it is essential that the diameters of the two dished ends are matched within 3 mm and are clearly marked for identification to ensure proper alignment in further fabrication at BHEL. 7.0 Thickness: The thickness specified is minimum thickness, which shall be ensured, after forming, throughout the surface of the dished ends including the knuckle portion. Minimum thickness shall be measured all over the area after removal of scales. 8.0 Heat Treatment: Cold formed dished ends shall be normalized. Hot-formed dished ends shall be normalized, irrespective of the forming of the dished ends in normalizing range. Normalizing charts duly certified by the inspecting agency should be submitted. Dished end mechanical properties shall be proved on the test coupons, after the coupon is subjected to same heat treatment as the dished ends including the final normalization. 9.0 In case the dished ends with butt welded joint in the blank, the following additional test shall be carried out; - The butt weld shall be 100 % radiographed after forming - Both inside and outside surface of weld seam shall be MT examined after normalization					

TD-106-2 Rev-5	Form No.		PRODUCT STANDARD HEAT EXCHANGERS HYDERABAD	No: HE 51370
				REV. NO. 00
				PAGE 2 OF 3

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PT/MT shall be carried out on the entire surface of the dished ends after forming. If required, as drawing/ Enquiry. /P.O., UT shall be carried out on the entire surface of the formed dished end, as per requirement of SA 435 of ASME code. Acceptance standard shall be as per SA 435.

10.0 Dished ends shall be protected against corrosion by a temporary coat of rust preventive.

11.0 Three lifting lugs at 120 deg apart, of suitable sizes of the same material as dished ends shall be provided for handling. Qualified welders using approved procedures, followed by PT examination shall carry out the welding.

12.0 Inspection: The inspection shall be as follows

1. For HP Heater Dished ends : By DOB and LRIS and certification in IBR form III C.
2. For others : By LRIS

The scope of inspection shall be as per the approved quality assurance plans (HY/ HE/ 016/ DE).

13.0 The following test certificates/ information shall be furnished by supplier duly attested by the inspection agency.

- a. Mill test certificate of raw material & test coupon (if material is not free issue)
- b. Process of manufacture.
- c. Minimum thickness achieved.
- d. Normalizing charts
- e. As built dimensions of the dished ends.
- f. Mechanical test results.
- g. Radiography results(if applicable)
- h. UST results (if applicable)
- i. PT & MT examination report.
- j. IBR form IIIC (if applicable)

15. IDENTIFICATION :- The following identifications shall be hard punched.

1. Suppliers Monogram.
2. Dish number
3. Material Specification
4. Heat & Plate Number
5. P.O Number
6. Inspection Agency/ Personnel stamp

The above punching shall be done outside 50 mm below the peripheral edge.

Ref.Doc.	
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TD-106-2		Form No.		बी एच ई एल BHEL		PRODUCT STANDARD HEAT EXCHANGERS HYDERABAD		No: HE 51527 REV. NO. 00 Page 1 of 3	
COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company		Specification for Dished Ends 1.0 Material: The material shall confirm to SA 387 Gr. 12 Class 2 (As per ASME section II Part A, year of edition and addenda, as per Drawing / Enquiry /P.O.). The plate shall meet the requirements of S1, S3, S5 and S8 of supplementary requirements of ASME. 2.0 Code of Construction: The code of construction shall be ASME section VIII Division 1, year of edition and addenda as per drawing/ Enquiry /P.O.) 3.0 The dished ends up to a diameter of 1600 mm shall be pressed from a single plate by cold forming / hot-forming /spinning. In case of spinning method is adopted, the central hole shall be plugged and radiographed 100%. 4.0 For dished ends above 1600 mm, a weld joint is permitted and the butt weld shall be fully radiographed before forming. MPI/DPT shall be carried out on weld edge preparation, back chip area and weld. Qualified welders using approved procedures, as per the requirements of ASME section IX, latest edition shall carry out the welding. Production test coupon for weld shall be prepared and tested as per the requirements of section IX of ASME. 5.0 Tolerance: As per code of construction (Para 2.0 above) 6.0 When dished ends are ordered in pairs for a single shell, it is essential that the diameters of the two dished ends are matched within 3 mm and are clearly marked for identification to ensure proper alignment in further fabrication at BHEL. 7.0 Thickness: The thickness specified is minimum thickness, which shall be ensured, after forming, throughout the surface of the dished ends including the knuckle portion. Minimum thickness shall be measured all over the area after removal of scales. 8.0 Heat Treatment: Cold formed dished ends shall be normalized. Hot-formed dished ends shall be normalized, irrespective of the forming of the dished ends in normalizing range. Normalizing charts duly certified by the inspecting agency should be submitted. Dished end mechanical properties shall be proved on the test coupons, after the coupon is subjected to same heat treatment as the dished ends including the final normalization. 9.0 In case the dished ends with butt welded joint in the bank, the following additional test shall be carried out: a. The butt weld shall be 100% radiographed after forming b. Both inside and outside surface of weld seam shall be MT examined after normalization. PT /MT shall be carried out on the entire surface of the dished ends after forming. 10.0 IF required, as drawing/Enquiry /P.O., UT shall be carried out on the entire surface of the formed dished end, as per requirement of SA 435 of ASME code. Acceptance standard shall be as per SA 435.							

TD-106-2	Form No.		PRODUCT STANDARD HEAT EXCHANGERS HYDERABAD	No: HE 51527
				REV. NO. 00
				Page 2 of 3

COPYRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the interest of the company	11.0 Dished ends shall be protected against corrosion by a temporary coat of rust preventive. 12.0 Three lifting lugs at 120 deg apart, of suitable sizes of the same material as dished ends shall be provided for handling. Qualified welders using approved procedures, followed by PT examination shall carry out the welding. 13.0 Inspection: the inspection shall be as follows 1. For HP Heater dished ends: BY D.O.B and BHEL approved TPIA and certification in IBR from III C. 2. for others: BY BHEL approved TPIA. The scope of inspection shall be as per the approved quality assurance plans (HY/HE/016/ASDE) 14.0 The following test certificates/information shall be furnished by supplier duly attested by the inspection agency. a. Mill test certificate of raw material & test coupon (if material is not free issue) b. Process of manufacture c. Minimum thickness achieved. d. Normalizing charts e. As built dimensions of the dished ends. f. Mechanical test results g. Radiography results (if applicable) h. UST results (if applicable) i. PT & MT examination report j. IBR form IIIC (if applicable) 15.0 Identification: The following identification shall be hard punched. 1. Suppliers Monogram 2. Dish number 3. Material Specification 4. Heat & Plate number 5. P.O. Number 6. Inspection Agency / Personnel stamp The above punching shall be done outside 50mm below the peripheral edge.

PRE-QUALIFICATION CRITERIA				
CS Dished Ends for Feed Water Heaters Application				
S.No.	BHEL Requirement	Vendor's Confirmation	Deviation if Any	Remarks
1	All the suppliers need to submit this document i.e. titled pre-qualification criteria and furnish required information along with offer.			
2	a) Name, address, e-mail id, contact no. etc. of Dished Ends manufacturer. b) Name, address, e-mail id, contact no.etc. of authorised agency / trading house quoting on behalf of manufacturing mill. In case offer is received from authorised agency / trading house, the following requirements shall be full filled. i) Valid letter of authorisation and copy of agreement to be enclosed with offer. ii) The offer should be either from the authorised agency or from the manufacturer directly. In case of BHEL receiving offer from both, then offer from manufacturer will only be considered. Offer from an unauthorised agency / entity on behalf of any vendor shall be summarily rejected. iii) Name, address, e-mail id, contact no.etc. of entity on whom order to be released in case of LI shall be clearly indicated.			
3	Supplier to confirm/provide the following criteria/documents for evaluation of offer. (a) The supplier should have the proven experience in manufacturing and supply of Dished Ends to reputed companies for Heat Exchangers and pressure vessels. For LP Heaters i) Material : SA 516 / SA 515 / SA 266 Gr.1-4 / SA 299 /SA 285 Gr.C/ SA-204 / SA 387 Gr.2 Class 1 / Grade 11 Class 1 or 2 / Grade 12 Class 1 or 2 Confirming to ASME BPVC Sec II Part - A ii) Dished End I.D.: 1000mm minimum and above. (Seamless construction) iii) Dished end Thickness : 13 mm minimum and above. iv) Application: Heat Exchangers or pressure vessels v) Service: Thermal power plant/Nuclear power plant/Refinery applications/Fertilizer plant. vi) Satisfactory Working of equipment: The vessel (Heat Exchanger / Pressure vessel) provided with this dished ends should have undergone successful hydro test either at Heat Exchangers / pressure vessels manufacturing works or at site ending last day of the month previous to the one in which enquiry is floated. (b) For HP Heaters & Desuper heaters i) Material : SA 516 / SA 515 / SA 266 Gr.1-4 / SA 299 /SA 285 Gr.C/ SA-204 / SA 387 Gr.2 Class 1 / Grade 11 Class 1 or 2 / Grade 12 Class 1 or 2 Confirming to ASME BPVC Sec II Part - A ii) Dished End I.D.: 1000mm minimum and above. (Seamless construction) iii) Dished end Thickness: 28 mm minimum and above. iv) Application: Heat Exchangers or pressure vessels manufactured as per IBR. v) Service: Thermal power plant/Nuclear power plant/Refinery applications/Fertilizer plant. vi) Satisfactory Working of equipment: The vessel (Heat Exchanger / Pressure vessel) provided with this dished ends should have undergone successful hydro test either at Heat Exchangers / pressure vessels manufacturing works or at site ending last day of the month previous to the one in which enquiry is floated. All the above criteria 3(a) (i) to 3(a) (vi) or 3(b)(i) to (vi) must be combinedly met by the vendor against a single supply reference of Dished end. Supplier's having experience in other materials, I.D., thickness and application will not be treated as proven experience. (b) The supplier meeting all the above criteria as 3 (a) (i) to 3 (a) (vi) or 3(b)(i) to (vi) shall furnish the following details in Annexure - 1. - Contact details of Vessel Manufacturer (Name, e-mail ID, Mobile etc) - Date of supply (DDMMYY format) - Quantity, size - Date of Hydro Test of the vessel - Location / name of the plant installed. Or Vessel Manufacturer's certificate (in English) containing the supply details as above both 3(a) & 3 (b), Contact details [E-Mail ID, Land line/Mobile No.] and complete address of Heat Exchangers / pressure vessels manufacturer may be furnished. Note : Suppliers shall furnish minimum of one reference and maximum upto 6 numbers of latest references meeting the above criteria in Annexure - 1 All the documents shall be furnished only in English. Documents furnished in other languages will not be considered for further evaluation. (c) BHEL reserves the right to cross verify with the above such customers and satisfy itself with reference to the claims of the supplier. If the information furnished by the supplier is not found satisfactory / no response from customer, the offer will be technically rejected.			
4	The vendors shall register with BHEL through online vendor registration portal available in BHEL website (www.bhel.com) and submit the application online against PMD D.FO.004. Copy of the same shall be submitted along with the offer. (Applicable for vendors who are not registered in BHEL -HPEP, Ramchandrapuram against the subject item PMD)".			
5	Offers without the requirement as above 3(a) & 3(b) will not be technically evaluated by BHEL. Further, no correspondence in this matter will be entertained.			
6	The raw material (plates) shall be sourced from reputed sources. Complete details of the plate's manufacturer like manufacturing and testing facilities, size ranges and the customers to whom they are supplying shall be furnished along with the offer. BHEL reviews the credentials of such supplier and may accept the proposal if it is satisfied technically. The decision of BHEL is final in this regard.			
7	The vendors should furnish the detailed process of manufacturing and testing procedures along with the offer.			
8	List of BHEL qualified bidders may be forwarded to BHEL's End Customer for their review and approval. The list finalized by BHEL's End Customer in such case shall be final and binding.			
9	BHEL team may carry out vendor evaluation/assessment (in case of a new vendor) by a visit to vendor works for qualifying /rejecting the technical bid based on the findings of the visit.			
10	Vendors to submit their bid in 2 part system, i.e. Part-I shall consists of Pre-Qualification Criteria along with the required documents and Techno-commercial bids and Part-II shall consists of Price Bid. Offers failing to meet prequalification part will not be considered for further evaluation.			

Annexure-1												
Low Pressure Feed water heater (LP Heater) Dished End Reference details												
Ref project S.no	Material (shall be as per 3(a)(i) of PQC)	ID mm	THK (min 13) mm	Supply date DDMMYYYY	Application (shall be as per 3(a)(v) of PQC)	Heater manufacturer details			End customer details			
						Supplied to (Heat Exchanger/vessel Manufacturer's name)	Contact person	E-Mail id &Phone no	Name of the organisation(End user)	Project Details Name: MW Rating: Location	No.of years the equipment is in service	Contact person
1												
2												
3												
4												
5												
6												

Note:

- a) Reference list shall be submitted in the above format only.
Vendors are requested to fill the above and submit along with PreQualification Criteria(PQC).Details mentioned above only are considered for PQC evaluation.
- b) wherever details are not available,vendor to mention as "NA"
- c) Reference project material shall be as per clause no 3(a)(i) of PQC confirming to ASME BPVC SEC-II PART-A.
Materials supplied as per standards equivalent to the said ASME Materials can be considered.However it is vendors responsibility to provide sufficient document evidence to prove the equivalent standard for ASME Materials. Other materials shall be considered as INVALID Reference.
- d) Reference project Heat exchanger/vesselID shall be of 1000 mm(Minimum).
- e) Reference project Heat exchanger/vessel thickness shall be 13 mm(min) Thickness less than 13 mm(min) shall be considered as INVALID Reference.
- f) Clause no 3(a) (i) to 3(a) (vi) of PQC must be combinedly met by the vendor against a single supply reference of Dishedend. Maximum of 06 such reference shall be mentioned in the above table.

vendor's signature with seal

High Pressure Feed water heater& Desuper							
Ref project S.no	Material (shall be as per 3(b)(i) of PQC)	ID mm	THK (min 28) mm	Supply date DDMMYYYY	Application (shall be as per 3(b)(v) of PQC)	Heater manufacturer	
						Supplied to (Heat Exchanger/vessel Manufacturer's name)	Contact person
1							
2							
3							
4							
5							
6							

Note:

- Reference list shall be submitted in the above format only.
Vendors are requested to fill the above and submit along with PreQualification Criteria(PQC).Details mentioned in PQC.
- wherever details are not available,vendor to mention as "NA"
- Reference project material shall be as per clause no 3(b)(i) of PQC confirming to ASME BPVC SEC-II PART II Materials supplied as per standards equivalent to the said ASME Materials can be considered.However if a standard is not equivalent standard for ASME Materials. Other materials shall be considered as INVALID Reference.
- Reference project Heat exchanger/vesselID shall be of 1000 mm(Minimum).
- Reference project Heat exchanger/vessel thickness shall be 28 mm(min) Thickness less than 28 mm(min) shall be considered as INVALID Reference.
- Clause no 3(b) (i) to 3(b) (vi) of PQC must be combinedly met by the vendor against a single supply reference.

heater (HP Heater & DSH) Dished End Reference details

details		End customer details		
E-Mail id &Phone no	Name of the organisation(End user)	<u>Project Details</u> Name: MW Rating: Location	No.of years the equipment is in service	Contact person

mentioned above only are considered for PQC evaluation.

-A.

it is vendors responsibility to provide sufficient document evidence to prove the

1) shall be considered as INVALID Reference.

ence of Dishedend. Maximum of 06 such reference shall be mentioned in the above table.

Annexure-2
E-Mail id&Phone no:

with seal

PRE-QUALIFICATION CRITERIA				
CS Dished Ends for Spray cum Tray Deaerator Application				
S.No.	BHEL Requirement	Vendor's Confirmation	Deviation if Any	Remarks
1	All the suppliers need to submit this document i.e. titled pre-qualification criteria and furnish required information along with offer.			
2	a) Name, address, e-mail id, contact no. etc. of Dished Ends manufacturer. b) Name, address, e-mail id, contact no.etc. of authorised agency / trading house quoting on behalf of manufacturing mill. In case offer is received from authorised agency / trading house, the following requirements shall be full filled. i) Valid letter of authorisation and copy of agreement to be enclosed with offer. ii) The offer should be either from the authorised agency or from the manufacturer directly. In case of BHEL receiving offer from both, then offer from manufacturer will only be considered. Offer from an unauthorised agency / entity on behalf of any vendor shall be summarily rejected. iii) Name, address, e-mail id, contact no.etc. of entity on whom order to be released in case of L1 shall be clearly indicated.			
3	Supplier to confirm/provide the following criteria/documents for evaluation of offer.			
	(a) The supplier should have the proven experience in manufacturing and supply of Dished Ends to reputed companies for Heat Exchangers and pressure vessels.			
	i) Material : SA 516 / SA 515 / SA 266 Gr.1-4 / SA 299 /SA 285 Gr.C/ SA-204 / SA 387 Gr.2 Class 1 / Grade 11 Class 1 or 2 / Grade 12 Class 1 or 2 Confirming to ASME BPVC Sec II Part - A			
	ii) Dished End I.D.: 3000mm minimum and above.			
	iii) Dished end Thickness : 25 mm minimum and above.			
	iv) Application: Heat Exchangers or pressure vessels.			
	v) Service: Thermal power plant/Nuclear power plant/Refinery applications/Fertilizer plant.			
	vi) Satisfactory Working of equipment: The vessel (Heat Exchanger / Pressure vessel) provided with this dished ends should have undergone successful hydro test either at Heat Exchangers / pressure vessels manufacturing works or at site ending last day of the month previous to the one in which enquiry is floated.			
	All the above criteria 3(a) (i) to 3(a) (vi) must be combinedly met by the vendor against a single supply reference of Dished end.			
	Supplier's having experience in other materials, I.D., thickness and application will not be treated as proven experience.			
	(b) The supplier meeting all the above criteria as 3 (a) (i) to 3 (a) (vi) shall furnish the following details in Annexure - 1. - Contact details of Vessel Manufacturer (Name, e-mail ID, Mobile etc) - Date of supply (DDMMYY format) - Quantity, size - Date of Hydro Test of the vessel - Location / name of the plant installed. Or Vessel Manufacturer's certificate (in English) containing the supply details as above both 3(a), Contact details [E-Mail ID, Land line/Mobile No.] and complete address of Heat Exchangers / pressure vessels manufacturer may be furnished. Note: Suppliers shall furnish minimum of one reference and maximum upto 6 numbers of latest references meeting the above criteria in Annexure - 3 All the documents shall be furnished only in English. Documents furnished in other languages will not be considered for further evaluation.			
	(c) BHEL reserves the right to cross verify with the above such customers and satisfy itself with reference to the claims of the supplier. If the information furnished by the supplier is not found satisfactory/ no response from customer the offer will be technically rejected.			
4	The vendors shall register with BHEL through online vendor registration portal available in BHEL website (www.bhel.com) and submit the application online against PMD D.FO.008. Copy of the same shall be submitted along with the offer. (Applicable for vendors who are not registered in BHEL -HPEP, Ramachandrapuram against the subject item PMD)".			
5	Offers without the requirement as above 3(a) will not be technically evaluated by BHEL. Further, no correspondence in this matter will be entertained.			
6	The raw material (plates) should be sourced from reputed sources. List of sources from whom the plates have been procured for projects as per Annexure-3 may be furnished for reference.			
7	The vendors should furnish the detailed process of manufacturing and testing procedures along with the offer.			
8	List of BHEL qualified bidders may be forwarded to BHEL's End Customer for their review and approval. The list finalized by BHEL's End Customer in such case shall be final and binding.			
9	BHEL team may carry out vendor evaluation/assessment (in case of a new vendor) by a visit to vendor works for qualifying /rejecting the technical bid based on the findings of the visit.			
10	Vendors to submit their bid in Part system, i.e. Part-I shall consists of Pre-Qualification Criteria along with the required documents and Techno-commercial bids and Part-II shall consists of Price Bids. Offers failing to meet prequalification part will not be considered for further evaluation. The decision of BHEL is final in this regard.			

Annexure-3												
Spray Cum Tray Deaerator Dished End Reference details												
Ref project S.no	Material (shall be as per 3(a)(i) of PQC)	ID mm	THK (min 25) mm	Supply date DDMMYYYY	Application (shall be as per 3(a)(v) of PQC)	Heater manufacturer details			End customer details			
						Supplied to (Heat Exchanger/vessel Manufacturer's name)	Contact person	E-Mail id &Phone no	Name of the organisation(End user)	Project Details Name: MW Rating: Location	No.of years the equipment is in service	Contact person
1												
2												
3												
4												
5												
6												

Note:

- a) Reference list shall be submitted in the above format only.
Vendors are requested to fill the above and submit along with PreQualification Criteria(PQC).Details mentioned above only are considered for PQC evaluation.
- b) wherever details are not available,vendor to mention as "NA"
- c) Reference project material shall be as per clause no 3(a)(i) of PQC confirming to ASME BPVC SEC-II PART-A.
Materials supplied as per standards equivalent to the said ASME Materials can be considered.However it is vendors responsibility to provide sufficient document evidence to prove the equivalent standard for ASME Materials. Other materials shall be considered as INVALID Reference.
- d) Reference project Heat exchanger/vesselID shall be of 3000 mm(Minimum).
- e) Reference project Heat exchanger/vessel thickness shall be 25 mm(min). Thickness less than 25 mm(min) shall be considered as INVALID Reference.
- f) Clause no 3(a) (i) to 3(a) (vi) of PQC must be combinedly met by the vendor against a single supply reference of Dishedend. Maximum of 06 such reference shall be mentioned in the above table.

vendor's signature with seal

SPECIAL CONTRACT CONDITIONS FOR ENQUIRY NO.E5AIS85415 DATED 01.04.2019

SL. NO	TERMS & CONDITIONS	BHEL REQUIREMENT	VENDOR 'S CONFIRMATION / REPLY
A	NAME & ADDRESS	Name, address, e-mail id, contact no.etc. of entity on whom order to be released in case of L ₁ . The offer should be either from the manufacturer directly or from the authorised agency. In case of BHEL receiving offer from both, then offer from manufacturer will be considered and offer from an unauthorised agency / entity on behalf of any vendor shall be summarily rejected. <u>Note : BHEL shall deal directly with all Indian manufactureres.</u>	
1	TECHNICAL TERMS		
1	DESCRIPTION & SIZE	As per Enquiry & Drawing.	
2	Package 1 : Material Codes : HE9718814027, HE9718814035 & HE9718814043	Dished End specification	These dished ends follow specification HE 51370 Rev 00. All clauses of the Specification are to be strictly adhered to.
3		QAP	These dished ends follow SQP No: HY/HE/016/DE Rev No:02, Dt 15.06.2017, named as " <i>QAP Panki CS Dished Ends</i> ". All clauses of the QAP are to be strictly adhered to.
4		MATERIAL Specification	These dished ends material shall be SA516 GR.70 (VCD & UT Tested) with S1, S5 & S8 supplementary requirements, as per ASME SEC II Part A 2017 Edition.
5		DRAWING	Drg. 41622600340 Rev 00 shall be followed. All clauses of the drawing are to be strictly adhered to.
6		INSPECTION & CERTIFICATION	Indian Vendors: 100% inspection by M/s. BHEL TPIA only. Foreign Vendors: 100% inspection by Lloyd's / BV / TUV / DNV as per Quality Plan. (Note: The above Inspection & Certification agencies shall be authorized / recognized / competent authority under Indian Boiler Regulations (IBR)1950 in the respective supplier's country).
7			These dished ends follow specification HE 51370 Rev 00. All clauses of the Specification are to be strictly adhered to.
8		QAP	These dished ends follow SQP No: HY/HE/016/DE Rev No:02, Dt 15.06.2017, named as " <i>QAP Panki CS Dished Ends</i> ". All clauses of the QAP are to be strictly adhered to.
9		MATERIAL Specification	These dished ends material shall be SA516 GR.70 (VCD & UT Tested) with S1, S5 & S8 supplementary requirements, as per ASME SEC II Part A 2017 Edition.

10	Package 2 : Material Codes : HE9711834626, HE9711834634, HE9711834642, HE9711834650, HE9711834669, HE9711834677 & HE9711834944	DRAWING	i. For material codes : HE9711834626, HE9711834634 & HE9711834642; 41631000666 Rev 00 & 41631000668 Rev 00 shall be followed. ii. For material codes : HE9711834650, HE9711834669, HE9711834677 & HE9711834944; 41631000665 Rev 00 & 41631000667 Rev 00 shall be followed. All clauses of the drawing are to be strictly adhered to.	
11		INSPECTION & CERTIFICATION	<u>Indian Vendors:</u> 100% inspection by M/s. BHEL TPIA & IBR. <u>Foreign Vendors:</u> 100% inspection by Lloyd's / BV / TUV / DNV as per Quality Plan and in IBR FORM III I. (Note: The above Inspection & Certification agencies shall be authorized / recognized / competent authority under Indian Boiler Regulations (IBR)1950 in the respective supplier's country).	
12		Other Technical Requirements	UT of Dished ends shall be carried out on the outer surface after forming and Heat Treatment.	
13		Other Requirements	Spherical Dishes Shall be Tack-welded to their respective Ellipsoidal dished end at your works.	
14		Dished End specification	These dished ends follow specification HE 51370 Rev 00. All clauses of the Specification are to be strictly adhered to.	
15		QAP	These dished ends follow SQP No: HY/HE/016/DE Rev No:02, Dt 15.06.2017, named as " <i>QAP Panki CS Dished Ends</i> ". All clauses of the QAP are to be strictly adhered to.	
16		MATERIAL Specification	These dished ends material shall be SA516 GR.70 (VCD & UT Tested) with S1, S5 & S8 supplementary requirements, as per ASME SEC II Part A 2017 Edition.	
17		DRAWING	Drg. 31750102539 Rev 00 shall be followed. All clauses of the drawing are to be strictly adhered to.	
18	Package 3 : Material Codes : HE9711503131, HE9711503140, HE9711503158, HE9711833034, HE9711833042 & HE9711833050	INSPECTION & CERTIFICATION	<u>Indian Vendors:</u> 100% inspection by M/s. BHEL TPIA & IBR. <u>Foreign Vendors:</u> 100% inspection by Lloyd's / BV / TUV / DNV as per Quality Plan and in IBR FORM III I. (Note: The above Inspection & Certification agencies shall be authorized / recognized / competent authority under Indian Boiler Regulations (IBR)1950 in the respective supplier's country).	
19		Dished End specification	These dished ends follow specification HE 51527 Rev 00. All clauses of the Specification are to be strictly adhered to.	

20		QAP	These dished ends follow SQP No: HY/HE/016/ASDE Rev No:01, Dt 16.04.2018, named as " <i>QAP Panki DSH</i> ". All clauses of the QAP are to be strictly adhered to.	
21		MATERIAL Specification	These dished ends material shall be SA 387 GR12 CL2 with S1, S3, S5 & S8 supplementary requirements as per ASME SEC II Part A 2017 Edition.	
22	Package 4 : Material Codes : HE9711824388 & HE9711504812	DRAWING	Drg. 41750501350 Rev 00 shall be followed. All clauses of the drawing are to be strictly adhered to.	
23		INSPECTION & CERTIFICATION	Indian Vendors: 100% inspection by M/s. BHEL TPIA & IBR. Foreign Vendors: 100% inspection by Lloyd's / BV / TUV / DNV as per Quality Plan and in IBR FORM III I. (Note: The above Inspection & Certification agencies shall be authorized / recognized / competent authority under Indian Boiler Regulations (IBR)1950 in the respective supplier's country).	
24		Dished End specification	These dished ends follow specification HE 51370 Rev 00. All clauses of the Specification are to be strictly adhered to.	
25		QAP	These dished ends follow SQP No: HY/HE/016/DE Rev No:03, Dt 16.04.2018, named as " <i>QAP Patratu HPH</i> ". All clauses of the QAP are to be strictly adhered to.	
26		MATERIAL Specification	These dished ends material shall be SA516 GR.70 (VCD & UT Tested) with S1, S5 & S8 supplementary requirements, as per ASME SEC II Part A 2017 Edition.	
27	Package 5 : Material Codes : HE9711813017, HE9711813025 & HE9711813033	DRAWING	Drg. 31750102505 Rev 00 shall be followed. All clauses of the drawing are to be strictly adhered to.	
28		INSPECTION & CERTIFICATION	Indian Vendors: 100% inspection by M/s. BHEL TPIA & IBR. Foreign Vendors: 100% inspection by Lloyd's / BV / TUV / DNV as per Quality Plan and in IBR FORM III I. (Note: The above Inspection & Certification agencies shall be authorized / recognized / competent authority under Indian Boiler Regulations (IBR)1950 in the respective supplier's country).	
29		Dished End specification	These dished ends follow specification HE 51527 Rev 00. All clauses of the Specification are to be strictly adhered to.	
30		QAP	These dished ends follow SQP No: HY/HE/016/ASDE Rev No:01, Dt 16.04.2018, named as " <i>QAP Patartu DSH</i> ". All clauses of the QAP are to be strictly adhered to.	
31		MATERIAL Specification	These dished ends material shall be SA 387 GR12 CL2 with S1, S3, S5 & S8 supplementary requirements as per ASME SEC II Part A 2017 Edition.	

32	Package 6 : Material Codes : HE9711824060	DRAWING	Drg. 41750103371 Rev 00 shall be followed. All clauses of the drawing are to be strictly adhered to.	
			<u>Indian Vendors:</u> 100% inspection by M/s. BHEL TPIA & IBR.	
33		INSPECTION & CERTIFICATION	<u>Foreign Vendors:</u> 100% inspection by Lloyd's / BV / TUV / DNV as per Quality Plan and in IBR FORM III I. (Note: The above Inspection & Certification agencies shall be authorized / recognized / competent authority under Indian Boiler Regulations (IBR)1950 in the respective supplier's country).	
34		Dished End specification	These dished ends follow specification HE 51370 Rev 00. All clauses of the Specification are to be strictly adhered to.	
35		QAP	These dished ends follow SQP No: HY/HE/016/DE Rev No:03, Dt 16.04.2018, named as " <i>QAP Patratu Deaerator</i> ". All clauses of the QAP are to be strictly adhered to.	
36		MATERIAL Specification	These dished ends material shall be SA516 GR.70 (VCD & UT Tested) with S1, S5 & S8 supplementary requirements, as per ASME SEC II Part A 2017 Edition.	
37		DRAWING	i. For material codes : HE9711824094, HE9711824086, HE9711824108 & HE9711824116; 41631000682 Rev 00 & 41631000683 Rev 00 shall be followed. ii. For material codes : HE9711824132, HE9711824124 & HE9711824140; 41631000684 Rev 00 & 41631000685 Rev 00 shall be followed. All clauses of the drawing are to be strictly adhered to.	
	Package 7 : Material Codes : HE9711824094, HE9711824086, HE9711824108, HE9711824116, HE9711824132, HE9711824124 & HE9711824140		<u>Indian Vendors:</u> 100% inspection by M/s. BHEL TPIA & IBR.	
38		INSPECTION & CERTIFICATION	<u>Foreign Vendors:</u> 100% inspection by Lloyd's / BV / TUV / DNV as per Quality Plan and in IBR FORM III I. (Note: The above Inspection & Certification agencies shall be authorized / recognized / competent authority under Indian Boiler Regulations (IBR)1950 in the respective supplier's country).	
39		Other Technical Requirements	UT of Dished ends shall be carried out on the outer surface after forming and Heat Treatment.	
40		Other Requirements	Spherical Dishes Shall be Tack-welded to their respective Ellipsoidal dished end at your works.	
41		Dished End specification	These dished ends follow specification HE 51370 Rev 00. All clauses of the Specification are to be strictly adhered to.	

42	Package 8 : Material Codes : HE9711814676, HE9711814684, HE9711814692 & HE9711814706	QAP	These dished ends follow SQP No: HY/HE/016/DE Rev No:03, Dt 16.04.2018, named as "QAP Patartu LPH". All clauses of the QAP are to be strictly adhered to.	
43		MATERIAL Specification	These dished ends material shall be SA516 GR.70 (VCD & UT Tested) with S1, S5 & S8 supplementary requirements, as per ASME SEC II Part A 2017 Edition.	
44		DRAWING	Drg. 41622200421 Rev 00 shall be followed. All clauses of the drawing are to be strictly adhered to.	
45		INSPECTION & CERTIFICATION	Indian Vendors: 100% inspection by M/s. BHEL TPIA only.	
			Foreign Vendors: 100% inspection by Lloyd's / BV / TUV / DNV as per Quality Plan. (Note: The above Inspection & Certification agencies shall be authorized / recognized / competent authority under Indian Boiler Regulations (IBR)1950 in the respective supplier's country).	
46	DOCUMENTS REQUIRED FOR TAKING UP WITH END CUSTOMER FOR APPROVAL	With reference to Pre-Qualification Criteria (PQC), vendor to submit following documents along with offer for taking up with end customer for approval, if required : a) Company Profile b) Details of Manufacturing & Testing Facilities c) Reference lists of orders executed for Power Projects d) Customer approval letters, if any e) Copies of certificates e.g. ISO 9001 or other relevant certifications f) Details of Orders executed for similar requirements during the past 3 years along with copies of the relevant PO/Work Order. g) Filled, signed & stamped Sub supplier questionnaire with supporting documents, which was forwarded along with this enquiry.		
II	Commercial Terms			
1	TERMS OF DELIVERY	FOR BHEL, Hyderabad stores for Indian Vendors. CIP Chennai for Foreign Vendors.		
2	Indian Suppliers - FOR BHEL, Hyderabad stores	Freight & Insurance are in vendor's scope and price quoted is inclusive of F & I. C-Note date or Date of submission of documents whichever is later shall be considered as delivery date incase documents are not submitted within 10 days from the dispatch of the material.. a) As per Incoterm (latest). b) IGM date in bill of entry issued by customs shall be delivery date for the purpose of penalty.		
3	Foreign Suppliers - CIP Chennai price / delivery implies	Exchange rate for Foreign Currency to INR shall be as per SBI Exchange rate (TT Seeling rate) as on Technical Bid Opening date. If the relevant day happens to be a bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken.		
	FRIEGHT & INSURANCE	By Supplier up to delivery Point.		

4	PACKING & FORWARDING	P & F charges shall be inclusive	
5	THIRD PARTY INSPECTION & CERTIFICATION CHARGES	<u>Indian Vendors:</u> a) BHEL TPI inspection charges by BHEL. Vendor's offer will be loaded by appropriate percentage for evaluation. Currently it is 0.26%. <u>Foreign Vendors:</u> Shall be inclusive in quoted price. <u>Indian Vendors:</u> Shall be inclusive in quoted price. <u>Foreign Vendors:</u> Included in the quoted price, The scope includes the overseas inspection & certification agency in IBR Form-III I.	
6	CIB Charges / Certification in IBR Form - III I		
7	DELIVERY SCHEDULES	Delivery shall be 12 weeks from PO date for Packages 5, 6, 7 & 8. Delivery shall be 16 weeks from PO date for Packages 1, 2, 3 & 4. For any deviation in the above delivery period, the quoted price shall be loaded by 0.5% per week. <u>Note:</u> Delivery is critical for evaluation of offer. Offers with delivery period beyond one month grace period against the respective schedules may be liable for rejection at BHEL discretion.	
8	Sourcing of Raw Material	Raw material (Plates) shall be sourced from reputed sources only. Indicate the Source of raw materials that will be used for these dished ends, incase of PO placement.	
9	MSE CLAUSE	“MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (Five years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed as per Annexure – I where deemed validity of EM-II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part-I). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through E-Procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted Officer.”	
10	Two - PART BID	Your offer shall be submitted in 2 - Part Bid system Part - I(Techno-Commercial bid along with Pre-Qualification Criteria) and Part - II (Price bid) separately in two sealed covers indicating our enquiry No. E5A1S85415 date and tender due date clearly. <u>Note:</u> Pre-Qualification Criteria are part of techno-commercial bid. BHEL prefers to evaluate Pre-Qualification Criteria of vendors first and rest of the techno-commercial bid subsequently. However, at its discretion BHEL may evaluate both Technical and Pre-Qualification Criteria simultaneously.	

11	TECHNO-COMMERCIAL BID	Techno-Commercial Bid shall essentially consist of: (i) Duly filled in Pre-Qualification Criteria (PQCs) along with all supporting documents & duly filled up Annexure - I. (ii) Hydro test report as per clause 3(a) (vi) & 3 (b) (iii) Contact details of equipment manufacturer. (iv) Manufacturing process and Testing Procedure. (v) Duly filled in signed copy of Special Contract Conditions (SCC). (vi) Duly filled in signed copy of Instructions to Bidder (ITB). (vii) Signed & stamped copy of drawings & QP (viii) MSE, Annexure - III, if required. (ix) Signed copy of Technical offer. (x) Signed copy of Un-Priced Bid format. (xi) Annexure - II (Non Disclosure Agreement) (xii) Annexure - A and Annexure - B (Applicable for Foreign Bidders employing Indian agents) (xiii) Filled, signed & stamped Subsupplier questionnaire along with supporting documents, if needed. All the above documents shall be duly authenticated by signature & official stamp on each page. Note: Bid shall be complete in all respects including all the documents / information required for techno-commercial evaluation. Incomplete offers shall be liable to rejection.	
12	PRICE BID	Quoted price shall be firm basis. Vendor shall quote rate per each item. Vendor shall quote prices strictly as per the pricing sheet enclosed. Vendor to indicate the Currency in which they are quoting.	
13	EVALUATION OF L1 BIDDER	Evaluation is done on package wise L1 on destination cost basis. Total 8 Packages are there and the Packages wise material codes are : (i) Package - 1 : HE9718814027, HE9718814035 & HE9718814043 (ii) Package - 2 : HE9711834626, HE9711834634, HE9711834642, HE9711834650, HE9711834669, HE9711834677 & HE9711834944 (iii) Package - 3 : HE9711503131, HE9711503140, HE9711503158, HE9711833034, HE9711833042 & HE9711833050 (iv) Package - 4 : HE9711824388 & HE9711504812 (v) Package - 5 : HE9711813017, HE9711813025 & HE9711813033 (vi) Package - 6 : HE9711824060 (vii) Package - 7 : HE9711824094, HE9711824086, HE9711824108, HE9711824116, HE9711824132, HE9711824124 & HE9711824140 (viii) Package - 8 : HE9711814676, HE9711814684, HE9711814692 & HE9711814706	

14		BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in nonconsideration of their bids, in case BHEL decides to go for RA. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates. If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). Details of vendor's Representative participating in RA like Name, E-mail, Phone and Fax No.	
15		BHEL shall deal directly with foreign vendors, wherever required, for procurement of goods. However, if the foreign principal desires to avail of the services of an Indian agent, then the foreign principal should ensure compliance to regulatory guidelines - which require mandatory submission of an Agency Agreement. It shall be incumbent on the Indian agent and the foreign principal to adhere to the relevant guidelines of Government of India, issued from time to time. The Agency Agreement should specify the precise relationship between the foreign OEM / foreign principal and their Indian agent and their mutual interest in the business. All services to be rendered by agent/ associate, whether of general nature or in relation to the particular contract, must be clearly stated by Any agency commission to be paid by BHEL to the Indian agent shall be in Indian currency only. Tax deduction at source is applicable to the agency commission paid to the Indian agent as per the prevailing rules.	

	GUIDELINES REGARDING DEALINGS WITH INDIAN AGENTS OF FOREIGN SUPPLIERS	In the absence of any agency agreement, BHEL shall not deal with any Indian agent (authorized representatives / associate / consultant, or by whatever name called) and shall deal directly with the foreign principal only for all correspondence and business purposes.	
		The “Guidelines for Indian Agents of Foreign Suppliers” enclosed at annexure – ‘A’ shall apply in all such cases.	
		The supply and execution of the Purchase Order (including indigenous supplies/ service) shall be in the scope of the OEM/ foreign principal. The OEM/ foreign principal should submit their offer inclusive of all indigenous supplies/ services and evaluation will be based on ‘total cost to BHEL’. In case OEM/ foreign principal recommends placement of order(s) towards indigenous portion of supplies/ services on Indian supplier(s)/ agent on their behalf, the credentials/ capacity/ capability of the Indian supplier(s)/ agent to make the supplies/ services shall be checked by BHEL as per the extant guidelines, before opening of price bids. In this regard, details may be checked as per Annexure-B (copy enclosed). It will be the responsibility of the OEM/ foreign principal to get acquainted with the evaluation requirements of Indian supplier/ agent as per SEARP available on www.bhel.com .	
16	GUARANTEE	As per directives of CENTRAL VIGILANCE COMMISSION, GOVERNMENT OF INDIA, one agent can not represent two or more suppliers or quote on their behalf in a particular tender. If so found at any stage, BHEL Hyderabad is likely to cancel Enquiries / POs to such suppliers. Further, such Indian Agent is likely to be de-listed (Black listed for business from BHEL).	
17	FINANCIAL STANDING	Guarantee on the supplier for a period of 18 months from the date of dispatch or 12 months from the date of commissioning whichever is earlier.	
		Indian Bidders: Vendor to submit annual Financial Turnover during the Past 3 Years along with copy of 3 years Audited Balance Sheet.	
		Foreign Bidders: Vendor to submit copy of latest D&B Report.	
18	ONLINE SUPPLIER REGISTRATION POTRAL	Vendors who are new and also not registered with Product Material Directory (PMD) D.FO.008 in BHEL - HPEP, RC Puram, are advised to register against above said PMD thru' online vendor registration portal available in BHEL website (www.bhel.com).	
19	EARNEST MONEY DEPOSIT (EMD)	EMD charges not applicable for quoting against this tender.	
20	FRAUD PREVENTION POLICY	The bidder along with its associate / collaborators / sub-contractors / sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.	
21	END CUSTOMER APPROVAL	Bidders have to submit their credentials. Credentials of techno-commercially qualified bidders may be forwarded to end customer for their review and approval, inline with clause 8 of PQC, if required. Price bids of techno-commercially qualified bidders will be opened, subjected to approval of end customer.	

22	TERMS & CONDITIONS	Vendor is requested to furnish all details of the offer in this format. In case of any discrepancy between information furnished here and those furnished elsewhere in the bid, the information furnished in this document only shall be considered, and those furnished else where shall be ignored.	
Vendor Signature and seal			

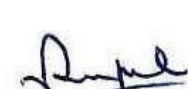
		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/DE REV. NO. : 02 DATE: 15.06.2017 VALID UPTO: 14.06.2019					
				ITEM: CS DISHED ENDS BHEL SPEC: HE 51370 Rev.00									
				PAGE 1 OF 2									
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
1	PLATE MATERIAL	VERIFICATION OF MILL TEST CERTIFICATE AND IDENTIFICATION MARKS FOR MECHANICAL AND CHEMICAL PROPERTIES	CRITICAL	VISUAL	100%	SA516 GR.70	SA516 GR.70	TEST CERTIFICATE				1	CHP
2	WELD SEAM OF BLANKS (IF APPLICABLE)	1. PT ON WELD EDGE PREPARATION	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6	ASME SEC.VIII DIVISION I APPENDIX 8	SUPPLIER TC	✓	2	1		
		2. RT OF WELD JOINT BEFORE FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 2	ASME SEC.VIII DIVISION 1 UW 51	SUPPLIER TC	✓	2		1	REVIEW OF RT FILMS
		3. MECHANICAL TEST ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA516 GR.70	SA516 GR.70	SUPPLIER TC	✓	2	1		
3	IN PROCESS	1 DIMENSIONAL CONFORMITY INCLUDING CHECKING FOR MINIMUM THICKNESS	MAJOR	MEASURE MENT	100%	DRAWING	DRAWING	SUPPLIER TC	✓	2	1	1	CHP
		2 RT ON WELD SEAM AFTER FORMING (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC VIII ARTICLE 2	ASME SEC VIII DIVISION I UW 51	SUPPLIER TC	✓	2		1	REVIEW OF RT FILMS
		3 VERIFICATION OF PWHT CHARTS FOR NORMALISING AFTER FORMING	CRITICAL	VISUAL	100%	ASME SEC VIII DIVISION I UCS 56	ASME SEC VIII DIVISION I UCS 56	SUPPLIER TC	✓	2		1	CHP
		4 PT ON ENTIRE SURFACE	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6	ASME SEC.VIII DIVISION 1 APPENDIX 8	SUPPLIER TC	✓	2	1		CHP
		5 CHECK FOR THICKNESS AFTER REMOVAL OF SCALES	CRITICAL	MEASURE MENT	100%	DRAWING	DRAWING	SUPPLIER TC		2	1		CHP

LEGEND:
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* D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.

PREPARED BY:


ALOK BEHERA
SR.ENGR/ QA

REVIEWED BY:


D S SATPUTE
AGM /QA

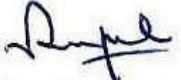
APPROVED BY:


D S SATPUTE
AGM /QA

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/DE REV. NO. : 02 DATE: 15.06.2017 VALID UPTO: 14.06.2019					
				ITEM: CS DISHED ENDS BHEL SPEC: HE 51370 Rev.00									
													PAGE 2 OF 2
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
		6 MT OF WELD SEAMS ON INSIDE AND OUTSIDE SURFACES AFTER NORMING AND NORMALISATION	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 7	ASME SEC.VIII DIVISION 1 APPENDIX 6	SUPPLIER TC	✓	2	1		
		7 UT ON OUTER SURFACE AFTER FORMING (IF APPLICABLE)	CRITICAL	NDE	100%	SA 435	SA 435	SUPPLIER TC	✓	2	1		CHP
		8 MECHANICAL TESTS ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA 516 GR.70	SA 516 GR.70	SUPPLIER TC	✓	2	1		CHP

Notes :

- 1.PROJECT SPECIFIC REQUIREMENTS, IF ANY, AS PER P.O. SHALL ALSO BE COMPLIED WITH.
- 2.ALL REQUIREMENTS AS PER BHEL SPECIFICATION AND DRAWING ARE TO BE COMPLIED WITH.
- 3.VALID IBR TC SHALL BE FURNISHED AS APPLICABLE AS PER PO. VERIFICATION SHALL BE BY BHEL TPIA.

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Format no. : HYQA/QP/VSQP Rev.02				

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/ASDE REV. NO. : 01 DATE: 16.04.2018 VALID UPTO: 20.04.2020					
				ITEM: ALLOY STEEL DISHED ENDS BHEL SPEC: HE 51527 Rev.00				PAGE 1 OF 2					
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
1	PLATE MATERIAL	VERIFICATION OF MILL TEST CERTIFICATE AND IDENTIFICATION MARKS FOR MECHANICAL AND CHEMICAL PROPERTIES	CRITICAL	VISUAL	100%	SA 387 GR.12 CLASS 2 WITH S1, S3, S5 & S8	SA 387 GR.12 CLASS 2 WITH S1, S3, S5 & S8	TEST CERTIFICATE				1	CHP
2	WELD SEAM OF BLANKS (IF APPLICABLE)	1. PT ON WELD EDGE PREPARATION	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6	ASME SEC.VIII DIVISION I APPENDIX 8	SUPPLIER TC	✓	2	1		
		2. RT OF WELD JOINT BEFORE FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 2	ASME SEC.VIII DIVISION 1 UW 51	SUPPLIER TC	✓	2		1	REVIEW OF RT FILMS
		3. MECHANICAL TEST ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA 387 GR.12 CLASS 2	SA 387 GR.12 CLASS 2	SUPPLIER TC	✓	2	1		
3	IN PROCESS	1 UT OF PLATE BEFORE FORMING	CRITICAL	NDE	100%	SA 435	SA 435	SUPPLIER TC/IR	✓	2		1	
		2 DIMENSIONAL CONFORMITY INCLUDING CHECKING FOR MINIMUM THICKNESS	MAJOR	MEASURE MENT	100%	DRAWING	DRAWING	IR	✓	2	1	1	CHP
		3 RT ON WELD SEAM AFTER FORMING (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC VIII ARTICLE 2	ASME SEC VIII DIVISION I UW 51	IR,RT FILM	✓	2		1	REVIEW OF RT FILMS
		4 VERIFICATION OF PWHT CHARTS FOR NORMALISING AFTER FORMING	CRITICAL	VISUAL	100%	ASME SEC VIII DIVISION I UCS 56	ASME SEC VIII DIVISION I UCS 56	HT CHART,IR	✓	2		1	CHP
		5 PT / MT ON ENTIRE SURFACE AFTER FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6/7	ASME SEC.VIII DIVISION 1 APPENDIX 8/6	IR	✓	2	1		CHP

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* D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.

PREPARED BY:


ALOK BEHERA
SR.ENGR/ QA

REVIEWED BY:


D S SATPUTE
AGM /QA

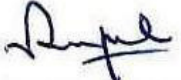
APPROVED BY:


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		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/ASDE REV. NO. : 01 DATE: 16.04.2018 VALID UPTO: 20.04.2020					
				ITEM: ALLOY STEEL DISHED ENDS BHEL SPEC: HE 51527 Rev.00									
				PAGE 2 OF 2									
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
3	IN PROCESS /FINAL	6 CHECK FOR THICKNESS AFTER REMOVAL OF SCALES	CRITICAL	MEASURE MENT	100%	DRAWING	DRAWING	IR		2	1		CHP
		7 MT OF WELD SEAMS ON INSIDE AND OUTSIDE SURFACES AFTER FORMING AND NORMALISATION (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 7	ASME SEC.VIII DIVISION 1 APPENDIX 6	IR	✓	2	1		
		8 UT ON OUTER SURFACE AFTER FORMING	CRITICAL	NDE	100%	SA 435	SA 435	IR	✓	2	1		CHP
		9 LIFTING LUG ARRGT PT LIFTING LUG WELD	CRITICAL	VISUAL NDE	100%	DRG, ASME SEC.V ARTICLE 6	DRG,ASME SEC.VIII DIVISION 1 APPENDIX 8	IR	✓	2	1		
		10 MATCHING OF DISHED ENDS DIAMETER	CRITICAL	MEASRT	100 %	DRG,SPEC	DRG,SPEC	IR	✓	2		1	NOTE-4
		11 MARKING OF DISHED ENDS	CRITICAL	VISUAL	100%	DRAWING,SPEC	DRAWING,SPEC	IR	✓	2	1		
		12 MECHANICAL TESTS ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA 387 GR.12 CLASS 2	SA 387 GR.12 CLASS 2	IR	✓	2	1		CHP

Notes:

1. PROJECT SPECIFIC REQUIREMENTS, IF ANY, AS PER P.O. SHALL ALSO BE COMPLIED WITH.
2. ALL REQUIREMENTS AS PER BHEL SPECIFICATION AND DRAWING ARE TO BE COMPLIED WITH.
3. VALID IBR TC SHALL BE FURNISHED AS APPLICABLE AS PER PO. VERIFICATION SHALL BE BY BHEL TPIA.
4. WHEN DISHED ENDS ARE ORDERED IN PAIRS FOR SINGLE SHELL.
5. IN CASE OF SPINNING METHOD IS ADOPTED, THE CENTRAL HOLE SHALL BE PLUGGED AND RADIOGRAPHED 100%. REVIEW OF RT FILMS BY BHEL TPI
6. VERIFICATION OF WPS, WPQ AS PER ASME SEC-IX BY BHEL TPIA

LEGEND: P: - PERFORM, W: - WITNESS, V: - VERIFICATION, INDICATING 1: - BHEL / BHEL NOMMNATED INSPECTION AGENCY, 2: - VENDOR / SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT / CHARACTERISTICS UNDER THE COLUMNS P, W & V. * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.		PREPARED BY:  ALOK BEHERA SR.ENGR/ QA	REVIEWED BY:  D S SATPUTE AGM /QA	APPROVED BY:  D S SATPUTE AGM /QA
Format no. : HYQA/QP/VSQP Rev.02				

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD	
ADDENDA TO VENDOR STANDARD QUALITY PLAN			
ITME DESCRIPTION		2:1ELLIP.DISHED END,SP .DISH	
PO/PR NO :DATE		8000086140, 28.09.2018 8000086147, 28.09.2018	
BHEL SPEC/DRAWING:		HE51370,R-00, DRAWING AS PER PR	
PROJECT :		3X800MW NTPC PATRATU EXPANSION PHASE-	
APPLICABLE SVQP:		HY/HE/016/DE,R-03	
PROJECT SPECIFIC REQUIREMENTS		1) MATERIAL SHALL BE SA516/70 (VCD & UT TESTED) AS PER ASME SEC-II PART-A, EDITION 2017. 2) SPHERICAL DISHES SHALL BE TACK-WELDED TO THEIR RESPECTIVE MATCHING 3) PREDESPATCH PHOTOGRAPHS SHALL BE INCLUDED IN QC DOCUMENTATION	
QA REMARK :	 ALOK BEHERA SR.ENGR/ QA	01.12.2018	STANDRAD QAP TO BE FOLLOWED ALONG WITH PROJECT SPECIFIC REQUIREMENT

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/DE REV. NO. : 03 DATE: 16.04.2018 VALID UPTO: 20.04.2020					
				ITEM: CS DISHED ENDS BHEL SPEC: HE 51370 Rev.00				PAGE 1 OF 3					
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
1	PLATE MATERIAL	VERIFICATION OF MILL TEST CERTIFICATE AND IDENTIFICATION MARKS FOR MECHANICAL AND CHEMICAL PROPERTIES	CRITICAL	VISUAL	100%	SA516 GR.70	SA516 GR.70	TEST CERTIFICATE				1	CHP
2	WELD SEAM OF BLANKS (IF APPLICABLE)	1. PT ON WELD EDGE PREPARATION	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6	ASME SEC.VIII DIVISION I APPENDIX 8	SUPPLIER TC	✓	2	1		
		2. RT OF WELD JOINT BEFORE FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 2	ASME SEC.VIII DIVISION 1 UW 51	SUPPLIER TC	✓	2		1	REVIEW OF RT FILMS
		3. MECHANICAL TEST ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA516 GR.70	SA516 GR.70	SUPPLIER TC	✓	2	1		
3	IN PROCESS	1 UT OF PLATE BEFORE FORMING	CRITICAL	NDE	100%	SA 435	SA 435	SUPPLIER TC/IR	✓	2		1	
		2 DIMENSIONAL CONFORMITY INCLUDING CHECKING FOR MINIMUM THICKNESS	MAJOR	MEASURE MENT	100%	DRAWING	DRAWING	IR	✓	2	1	1	CHP Note -8
		3 RT ON WELD SEAM AFTER FORMING (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC VIII ARTICLE 2	ASME SEC VIII DIVISION I UW 51	IR,RT FILM	✓	2		1	REVIEW OF RT FILMS
		4 VERIFICATION OF PWHT CHARTS FOR NORMALISING AFTER FORMING	CRITICAL	VISUAL	100%	ASME SEC VIII DIVISION I UCS 56	ASME SEC VIII DIVISION I UCS 56	HT CHART,IR	✓	2		1	CHP Note -7
		5 PT / MT ON ENTIRE SURFACE AFTER FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6/7	ASME SEC.VIII DIVISION 1 APPENDIX 8/6	IR	✓	2	1		CHP

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PREPARED BY:


ALOK BEHERA
SR.ENGR/ QA

REVIEWED BY:


D S SATPUTE
AGM /QA

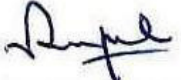
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		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/DE REV. NO. : 03 DATE: 16.04.2018 VALID UPTO: 20.04.2020					
				ITEM: CS DISHED ENDS BHEL SPEC: HE 51370 Rev.00									
				PAGE 2 OF 3									
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
3	IN PROCESS /FINAL	6 CHECK FOR THICKNESS AFTER REMOVAL OF SCALES	CRITICAL	MEASURE MENT	100%	DRAWING	DRAWING	IR		2	1		CHP
		7 MT OF WELD SEAMS ON INSIDE AND OUTSIDE SURFACES AFTER FORMING AND NORMALISATION (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 7	ASME SEC.VIII DIVISION 1 APPENDIX 6	IR	✓	2	1		
		8 UT ON OUTER SURFACE AFTER FORMING	CRITICAL	NDE	100%	SA 435	SA 435	IR	✓	2	1		CHP
		9 LIFTING LUG ARRGT PT LIFTING LUG WELD	CRITICAL	VISUAL NDE	100%	DRG, ASME SEC.V ARTICLE 6	DRG,ASME SEC.VIII DIVISION 1 APPENDIX 8	IR	✓	2	1		
		10 MATCHING OF DISHED ENDS	CRITICAL	MEASRT	100 %	DRG,SPEC	DRG,SPEC	IR	✓	2		1	NOTE-4
		11 MARKING OF DISHED ENDS	CRITICAL	VISUAL	100%	DRAWING,SPEC	DRAWING,SPEC	IR	✓	2	1		
		12 MECHANICAL TESTS ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA 516 GR.70	SA 516 GR.70	IR	✓	2	1		CHP

Notes :

1. PROJECT SPECIFIC REQUIREMENTS, IF ANY, AS PER P.O. SHALL ALSO BE COMPLIED WITH.
2. ALL REQUIREMENTS AS PER BHEL SPECIFICATION AND DRAWING ARE TO BE COMPLIED WITH.
3. VALID IBR TC SHALL BE FURNISHED AS APPLICABLE AS PER PO. VERIFICATION SHALL BE BY BHEL TPIA.
4. WHEN DISHED ENDS ARE ORDERED IN PAIRS FOR SINGLE SHELL.
5. IN CASE OF SPINNING METHOD IS ADOPTED, THE CENTRAL HOLE SHALL BE PLUGGED AND RADIOGRAPHED 100%. REVIEW OF RT FILMS BY BHEL TPI
6. VERIFICATION OF WPS, WPQ AS PER ASME SEC-IX BY BHEL TPIA

LEGEND: P: - PERFORM, W: - WITNESS, V: - VERIFICATION, INDICATING 1: - BHEL / BHEL NOMMNATED INSPECTION AGENCY, 2: - VENDOR / SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT / CHARACTERISTICS UNDER THE COLUMNS P, W & V. * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.	PREPARED BY:	REVIEWED BY:	APPROVED BY:
	 ALOK BEHERA SR.ENGR/ QA	 D S SATPUTE AGM /QA	 D S SATPUTE AGM /QA

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/DE					
				ITEM: CS DISHED ENDS BHEL SPEC: HE 51370 Rev.00				REV. NO. : 03					
								DATE: 16.04.2018					
								VALID UPTO: 20.04.2020					
									PAGE 3 OF 3				
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY P W V			REMARKS

7. NORMALIZATION SHALL BE DONE FOR SPHERICAL DISH ALSO AFTER PRESSING

8. SPHERICAL DISH SHALL BE OF SEAMLESS CONSTRUCTION AND PROFILE SHOULD MATCH WITH DISHED END OD AS PER BHEL DRAWING .

GENERAL NOTES:

1. This QP should be read along with BHEL Spec, BHEL drawings / approved drawings, data sheet, BOM and PO.
2. Latest revisions of specification / drawings as per P.O., approved drawings & bill of materials are applicable.
3. Any other tests/ checks indicated in specification, P.O., or drawing & any additional checks envisaged by BHEL/TPI to ensure workmanship, finish, aesthetics, etc. shall also be conducted and witnessed/verified by BHEL /TPI / customer as required.
4. All test certificates/ reports reviewed and certified by BHEL/TPI shall be submitted to BHEL as documentation package.
5. Drawing / Data Sheet shall prevail over Quality Plan in case of any contradiction between Quality Plan and Drawing / Data Sheet.
6. Any project / customer specific requirement, like QP approval & Customer/Consultant Inspection, which shall be notified have to be fulfilled by the vendor at the time of execution of order.
7. This QP shall not be applicable to the orders for which QP approval & Inspection by customer/consultant is required.
8. This SQP is not applicable for vendors supplying this item for the first time to BHEL.

MTC – Mill Test Certificate

TC – Test Certificate

IR – Inspection Report

COC – Certificate of Conformity

TPIA – Third Party Inspection Agency appointed by BHEL.

PO – Purchase Order

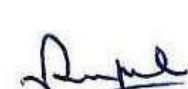
LEGEND:

P: - PERFORM, W: - WITNESS, V: - VERIFICATION,
 INDICATING 1: - BHEL / BHEL NOMINATED INSPECTION AGENCY, 2: - VENDOR / SUB VENDOR AS
 APPROPRIATE AGAINST EACH COMPONENT / CHARACTERISTICS UNDER THE COLUMNS P, W & V.
 * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.

PREPARED BY:


ALOK BEHERA
 SR.ENGR/ QA

REVIEWED BY:


D S SATPUTE
 AGM /QA

APPROVED BY:


D S SATPUTE
 AGM /QA

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD	
ADDENDA TO VENDOR STANDARD QUALITY PLAN			
ITME DESCRIPTION		AS DISHED END	
PO/PR NO :DATE		:8000085950, 22.09.2018	
BHEL SPEC/DRAWING:		HE 51527 REV 00, DRAWING AS PER PR	
PROJECT :		3X800MW NTPC PATRATU STP EXPANSION PHASE-1	
APPLICABLE SVQP:		HY/HE/016/ASDE REV 01	
PROJECT SPECIFIC REQUIREMENTS		PRE DESPATCH PHOTO GRAPHS SHALL BE INCLUDED IN QC DOUCMENTATION	
QA REMARK :	 ALOK BEHERA SR.ENGR/ QA	01.12.2018	STANDRAD QAP TO BE FOLLOWED ALONG WITH PROJECT SPECIFIC REQUIREMENT

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/ASDE REV. NO. : 01 DATE: 16.04.2018 VALID UPTO: 20.04.2020					
				ITEM: ALLOY STEEL DISHED ENDS BHEL SPEC: HE 51527 Rev.00				PAGE 1 OF 2					
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
1	PLATE MATERIAL	VERIFICATION OF MILL TEST CERTIFICATE AND IDENTIFICATION MARKS FOR MECHANICAL AND CHEMICAL PROPERTIES	CRITICAL	VISUAL	100%	SA 387 GR.12 CLASS 2 WITH S1, S3, S5 & S8	SA 387 GR.12 CLASS 2 WITH S1, S3, S5 & S8	TEST CERTIFICATE				1	CHP
2	WELD SEAM OF BLANKS (IF APPLICABLE)	1. PT ON WELD EDGE PREPARATION	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6	ASME SEC.VIII DIVISION I APPENDIX 8	SUPPLIER TC	✓	2	1		
		2. RT OF WELD JOINT BEFORE FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 2	ASME SEC.VIII DIVISION 1 UW 51	SUPPLIER TC	✓	2		1	REVIEW OF RT FILMS
		3. MECHANICAL TEST ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA 387 GR.12 CLASS 2	SA 387 GR.12 CLASS 2	SUPPLIER TC	✓	2	1		
3	IN PROCESS	1 UT OF PLATE BEFORE FORMING	CRITICAL	NDE	100%	SA 435	SA 435	SUPPLIER TC/IR	✓	2		1	
		2 DIMENSIONAL CONFORMITY INCLUDING CHECKING FOR MINIMUM THICKNESS	MAJOR	MEASURE MENT	100%	DRAWING	DRAWING	IR	✓	2	1	1	CHP
		3 RT ON WELD SEAM AFTER FORMING (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC VIII ARTICLE 2	ASME SEC VIII DIVISION I UW 51	IR,RT FILM	✓	2		1	REVIEW OF RT FILMS
		4 VERIFICATION OF PWHT CHARTS FOR NORMALISING AFTER FORMING	CRITICAL	VISUAL	100%	ASME SEC VIII DIVISION I UCS 56	ASME SEC VIII DIVISION I UCS 56	HT CHART,IR	✓	2		1	CHP
		5 PT / MT ON ENTIRE SURFACE AFTER FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6/7	ASME SEC.VIII DIVISION 1 APPENDIX 8/6	IR	✓	2	1		CHP

LEGEND:
 P: - PERFORM, W: - WITNESS, V: - VERIFICATION,
 INDICATING 1: - BHEL / BHEL NOMINATED INSPECTION AGENCY, 2: - VENDOR / SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT / CHARACTERISTICS UNDER THE COLUMNS P, W & V.
 * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.

PREPARED BY:


ALOK BEHERA
 SR.ENGR/ QA

REVIEWED BY:


D S SATPUTE
 AGM /QA

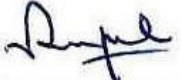
APPROVED BY:


D S SATPUTE
 AGM /QA

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/ASDE REV. NO. : 01 DATE: 16.04.2018 VALID UPTO: 20.04.2020						
				ITEM: ALLOY STEEL DISHED ENDS BHEL SPEC: HE 51527 Rev.00				PAGE 2 OF 2						
SL NO	COMPONENT & OPERATIONS		CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
											P	W	V	
3	IN PROCESS /FINAL		6 CHECK FOR THICKNESS AFTER REMOVAL OF SCALES	CRITICAL	MEASURE MENT	100%	DRAWING	DRAWING	IR		2	1		CHP
			7 MT OF WELD SEAMS ON INSIDE AND OUTSIDE SURFACES AFTER FORMING AND NORMALISATION (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 7	ASME SEC.VIII DIVISION 1 APPENDIX 6	IR	✓	2	1		
			8 UT ON OUTER SURFACE AFTER FORMING	CRITICAL	NDE	100%	SA 435	SA 435	IR	✓	2	1		CHP
			9 LIFTING LUG ARRGT PT LIFTING LUG WELD	CRITICAL	VISUAL NDE	100%	DRG, ASME SEC.V ARTICLE 6	DRG,ASME SEC.VIII DIVISION 1 APPENDIX 8	IR	✓	2	1		
			10 MATCHING OF DISHED ENDS DIAMETER	CRITICAL	MEASRT	100 %	DRG,SPEC	DRG,SPEC	IR	✓	2		1	NOTE-4
			11 MARKING OF DISHED ENDS	CRITICAL	VISUAL	100%	DRAWING,SPEC	DRAWING,SPEC	IR	✓	2	1		
			12 MECHANICAL TESTS ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA 387 GR.12 CLASS 2	SA 387 GR.12 CLASS 2	IR	✓	2	1		CHP

Notes:

1. PROJECT SPECIFIC REQUIREMENTS, IF ANY, AS PER P.O. SHALL ALSO BE COMPLIED WITH.
2. ALL REQUIREMENTS AS PER BHEL SPECIFICATION AND DRAWING ARE TO BE COMPLIED WITH.
3. VALID IBR TC SHALL BE FURNISHED AS APPLICABLE AS PER PO. VERIFICATION SHALL BE BY BHEL TPIA.
4. WHEN DISHED ENDS ARE ORDERED IN PAIRS FOR SINGLE SHELL.
5. IN CASE OF SPINNING METHOD IS ADOPTED, THE CENTRAL HOLE SHALL BE PLUGGED AND RADIOGRAPHED 100%. REVIEW OF RT FILMS BY BHEL TPI
6. VERIFICATION OF WPS, WPQ AS PER ASME SEC-IX BY BHEL TPIA

LEGEND: P: - PERFORM, W: - WITNESS, V: - VERIFICATION, INDICATING 1: - BHEL / BHEL NOMMNATED INSPECTION AGENCY, 2: - VENDOR / SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT / CHARACTERISTICS UNDER THE COLUMNS P, W & V. * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.		PREPARED BY:  ALOK BEHERA SR.ENGR/ QA	REVIEWED BY:  D S SATPUTE AGM /QA	APPROVED BY:  D S SATPUTE AGM /QA
Format no. : HYQA/QP/VSQP Rev.02				

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD	
ADDENDA TO VENDOR STANDARD QUALITY PLAN			
ITME DESCRIPTION		2:1ELLIP.DISHED END, SP .DISH	
PO/PR NO :DATE		8000085415, 08.09.2018	
BHEL SPEC/DRAWING:		HE51370,R-00, DRAWING AS PER PR	
PROJECT :		3X800 MW PATRATU STP EXPANSION	
APPLICABLE SVQP:		HY/HE/016/DE,R-03	
PROJECT SPECIFIC REQUIREMENTS		1) VALID IBR TC SHALL BE PRODUCED. VERIFICATION BY BHEL TPIA. 2) ANY ADDITIONAL CUSTOMER REQUIREMENTS SHALL BE COMPLIED. 3) PRE DESPATCH PHOTOGRAPHS SHALL BE INCLUDED IN QC DOCUMENTATION.	
QA REMARK :	 ALOK BEHERA SR.ENGR/ QA	15.09.2018	STANDRAD QAP TO BE FOLLOWED ALONG WITH PROJECT SPECIFIC REQUIREMENT

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/DE REV. NO. : 03 DATE: 16.04.2018 VALID UPTO: 20.04.2020					
				ITEM: CS DISHED ENDS BHEL SPEC: HE 51370 Rev.00				PAGE 1 OF 2					
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
1	PLATE MATERIAL	VERIFICATION OF MILL TEST CERTIFICATE AND IDENTIFICATION MARKS FOR MECHANICAL AND CHEMICAL PROPERTIES	CRITICAL	VISUAL	100%	SA516 GR.70	SA516 GR.70	TEST CERTIFICATE				1	CHP
2	WELD SEAM OF BLANKS (IF APPLICABLE)	1. PT ON WELD EDGE PREPARATION	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6	ASME SEC.VIII DIVISION I APPENDIX 8	SUPPLIER TC	✓	2	1		
		2. RT OF WELD JOINT BEFORE FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 2	ASME SEC.VIII DIVISION 1 UW 51	SUPPLIER TC	✓	2		1	REVIEW OF RT FILMS
		3. MECHANICAL TEST ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA516 GR.70	SA516 GR.70	SUPPLIER TC	✓	2	1		
3	IN PROCESS	1 UT OF PLATE BEFORE FORMING	CRITICAL	NDE	100%	SA 435	SA 435	SUPPLIER TC/IR	✓	2		1	
		2 DIMENSIONAL CONFORMITY INCLUDING CHECKING FOR MINIMUM THICKNESS	MAJOR	MEASURE MENT	100%	DRAWING	DRAWING	IR	✓	2	1	1	CHP
		3 RT ON WELD SEAM AFTER FORMING (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC VIII ARTICLE 2	ASME SEC VIII DIVISION I UW 51	IR,RT FILM	✓	2		1	REVIEW OF RT FILMS
		4 VERIFICATION OF PWHT CHARTS FOR NORMALISING AFTER FORMING	CRITICAL	VISUAL	100%	ASME SEC VIII DIVISION I UCS 56	ASME SEC VIII DIVISION I UCS 56	HT CHART,IR	✓	2		1	CHP
		5 PT / MT ON ENTIRE SURFACE AFTER FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6/7	ASME SEC.VIII DIVISION 1 APPENDIX 8/6	IR	✓	2	1		CHP

LEGEND:
P: - PERFORM, W: - WITNESS, V: - VERIFICATION,
INDICATING 1: - BHEL / BHEL NOMINATED INSPECTION AGENCY, 2: - VENDOR / SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT / CHARACTERISTICS UNDER THE COLUMNS P, W & V.
* D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.

PREPARED BY:


ALOK BEHERA
SR.ENGR/ QA

REVIEWED BY:


D S SATPUTE
AGM /QA

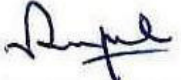
APPROVED BY:


D S SATPUTE
AGM /QA

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/DE REV. NO. : 03 DATE: 16.04.2018 VALID UPTO: 20.04.2020					
				ITEM: CS DISHED ENDS BHEL SPEC: HE 51370 Rev.00									
				PAGE 2 OF 2									
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
3	IN PROCESS /FINAL	6 CHECK FOR THICKNESS AFTER REMOVAL OF SCALES	CRITICAL	MEASURE MENT	100%	DRAWING	DRAWING	IR		2	1		CHP
		7 MT OF WELD SEAMS ON INSIDE AND OUTSIDE SURFACES AFTER FORMING AND NORMALISATION (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 7	ASME SEC.VIII DIVISION 1 APPENDIX 6	IR	✓	2	1		
		8 UT ON OUTER SURFACE AFTER FORMING	CRITICAL	NDE	100%	SA 435	SA 435	IR	✓	2	1		CHP
		9 LIFTING LUG ARRGT PT LIFTING LUG WELD	CRITICAL	VISUAL NDE	100%	DRG, ASME SEC.V ARTICLE 6	DRG,ASME SEC.VIII DIVISION 1 APPENDIX 8	IR	✓	2	1		
		10 MATCHING OF DISHED ENDS	CRITICAL	MEASRT	100 %	DRG,SPEC	DRG,SPEC	IR	✓	2		1	NOTE-4
		11 MARKING OF DISHED ENDS	CRITICAL	VISUAL	100%	DRAWING,SPEC	DRAWING,SPEC	IR	✓	2	1		
		12 MECHANICAL TESTS ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA 516 GR.70	SA 516 GR.70	IR	✓	2	1		CHP

Notes :

1. PROJECT SPECIFIC REQUIREMENTS, IF ANY, AS PER P.O. SHALL ALSO BE COMPLIED WITH.
2. ALL REQUIREMENTS AS PER BHEL SPECIFICATION AND DRAWING ARE TO BE COMPLIED WITH.
3. VALID IBR TC SHALL BE FURNISHED AS APPLICABLE AS PER PO. VERIFICATION SHALL BE BY BHEL TPIA.
4. WHEN DISHED ENDS ARE ORDERED IN PAIRS FOR SINGLE SHELL.
5. IN CASE OF SPINNING METHOD IS ADOPTED, THE CENTRAL HOLE SHALL BE PLUGGED AND RADIOGRAPHED 100%. REVIEW OF RT FILMS BY BHEL TPI
6. VERIFICATION OF WPS, WPQ AS PER ASME SEC-IX BY BHEL TPIA

LEGEND: P: - PERFORM, W: - WITNESS, V: - VERIFICATION, INDICATING 1: - BHEL / BHEL NOMMNATED INSPECTION AGENCY, 2: - VENDOR / SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT / CHARACTERISTICS UNDER THE COLUMNS P, W & V. * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.		PREPARED BY:  ALOK BEHERA SR.ENGR/ QA	REVIEWED BY:  D S SATPUTE AGM /QA	APPROVED BY:  D S SATPUTE AGM /QA
Format no. : HYQA/QP/VSQP Rev.02				

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD	
ADDENDA TO VENDOR STANDARD QUALITY PLAN			
ITME DESCRIPTION		2:1ELLIP.DISHED END, SP .DISH	
PO/PR NO :DATE		8000087582, 27.12.2018	
BHEL SPEC/DRAWING:		HE51370,R-00, DRAWING AS PER PR	
PROJECT :		3X800MW NTPC PATRATU -LPH	
APPLICABLE SVQP:		HY/HE/016/DE,R-03	
PROJECT SPECIFIC REQUIREMENTS		1) EN 10204 TYPE 3.1 CERTIFICATION SHALL BE FURNISHED. 2) DISHED END SHALL BE OF SEAM LESS CONSTRUCTION. 3) HEAT TREATMENT REQUIREMENT AS PER DRAWING. 4) TENSILE TESTING OF PRODUCTION TEST COUPON HEAT TREATED ALONG WITH DISHED ENDS. 5) FINAL DIMENSIONAL INSPECTION USING D METER 6) VALID IBR CERTIFICES SHALL BE FURNISHED	
QA REMARK :	 ALOK BEHERA SR.ENGR/ QA	31.12.2018	STANDRAD QAP TO BE FOLLOWED ALONG WITH PROJECT / PO SPECIFIC REQUIREMENT

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/DE REV. NO. : 03 DATE: 16.04.2018 VALID UPTO: 20.04.2020					
				ITEM: CS DISHED ENDS BHEL SPEC: HE 51370 Rev.00				PAGE 1 OF 3					
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
1	PLATE MATERIAL	VERIFICATION OF MILL TEST CERTIFICATE AND IDENTIFICATION MARKS FOR MECHANICAL AND CHEMICAL PROPERTIES	CRITICAL	VISUAL	100%	SA516 GR.70	SA516 GR.70	TEST CERTIFICATE				1	CHP
2	WELD SEAM OF BLANKS (IF APPLICABLE)	1. PT ON WELD EDGE PREPARATION	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6	ASME SEC.VIII DIVISION I APPENDIX 8	SUPPLIER TC	✓	2	1		
		2. RT OF WELD JOINT BEFORE FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 2	ASME SEC.VIII DIVISION 1 UW 51	SUPPLIER TC	✓	2		1	REVIEW OF RT FILMS
		3. MECHANICAL TEST ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA516 GR.70	SA516 GR.70	SUPPLIER TC	✓	2	1		
3	IN PROCESS	1 UT OF PLATE BEFORE FORMING	CRITICAL	NDE	100%	SA 435	SA 435	SUPPLIER TC/IR	✓	2		1	
		2 DIMENSIONAL CONFORMITY INCLUDING CHECKING FOR MINIMUM THICKNESS	MAJOR	MEASURE MENT	100%	DRAWING	DRAWING	IR	✓	2	1	1	CHP Note -8
		3 RT ON WELD SEAM AFTER FORMING (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC VIII ARTICLE 2	ASME SEC VIII DIVISION I UW 51	IR,RT FILM	✓	2		1	REVIEW OF RT FILMS
		4 VERIFICATION OF PWHT CHARTS FOR NORMALISING AFTER FORMING	CRITICAL	VISUAL	100%	ASME SEC VIII DIVISION I UCS 56	ASME SEC VIII DIVISION I UCS 56	HT CHART,IR	✓	2		1	CHP Note -7
		5 PT / MT ON ENTIRE SURFACE AFTER FORMING	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 6/7	ASME SEC.VIII DIVISION 1 APPENDIX 8/6	IR	✓	2	1		CHP

LEGEND:
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INDICATING 1: - BHEL / BHEL NOMINATED INSPECTION AGENCY, 2: - VENDOR / SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT / CHARACTERISTICS UNDER THE COLUMNS P, W & V.
* D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.

PREPARED BY:


ALOK BEHERA
SR.ENGR/ QA

REVIEWED BY:


D S SATPUTE
AGM /QA

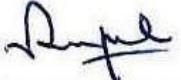
APPROVED BY:


D S SATPUTE
AGM /QA

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/DE REV. NO. : 03 DATE: 16.04.2018 VALID UPTO: 20.04.2020					
				ITEM: CS DISHED ENDS BHEL SPEC: HE 51370 Rev.00									
				PAGE 2 OF 3									
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY			REMARKS
										P	W	V	
3	IN PROCESS /FINAL	6 CHECK FOR THICKNESS AFTER REMOVAL OF SCALES	CRITICAL	MEASURE MENT	100%	DRAWING	DRAWING	IR		2	1		CHP
		7 MT OF WELD SEAMS ON INSIDE AND OUTSIDE SURFACES AFTER FORMING AND NORMALISATION (IF APPLICABLE)	CRITICAL	NDE	100%	ASME SEC.V ARTICLE 7	ASME SEC.VIII DIVISION 1 APPENDIX 6	IR	✓	2	1		
		8 UT ON OUTER SURFACE AFTER FORMING	CRITICAL	NDE	100%	SA 435	SA 435	IR	✓	2	1		CHP
		9 LIFTING LUG ARRGT PT LIFTING LUG WELD	CRITICAL	VISUAL NDE	100%	DRG, ASME SEC.V ARTICLE 6	DRG,ASME SEC.VIII DIVISION 1 APPENDIX 8	IR	✓	2	1		
		10 MATCHING OF DISHED ENDS	CRITICAL	MEASRT	100 %	DRG,SPEC	DRG,SPEC	IR	✓	2		1	NOTE-4
		11 MARKING OF DISHED ENDS	CRITICAL	VISUAL	100%	DRAWING,SPEC	DRAWING,SPEC	IR	✓	2	1		
		12 MECHANICAL TESTS ON TEST COUPON	CRITICAL	VISUAL	SAMPLE	SA 516 GR.70	SA 516 GR.70	IR	✓	2	1		CHP

Notes :

1. PROJECT SPECIFIC REQUIREMENTS, IF ANY, AS PER P.O. SHALL ALSO BE COMPLIED WITH.
2. ALL REQUIREMENTS AS PER BHEL SPECIFICATION AND DRAWING ARE TO BE COMPLIED WITH.
3. VALID IBR TC SHALL BE FURNISHED AS APPLICABLE AS PER PO. VERIFICATION SHALL BE BY BHEL TPIA.
4. WHEN DISHED ENDS ARE ORDERED IN PAIRS FOR SINGLE SHELL.
5. IN CASE OF SPINNING METHOD IS ADOPTED, THE CENTRAL HOLE SHALL BE PLUGGED AND RADIOGRAPHED 100%. REVIEW OF RT FILMS BY BHEL TPI
6. VERIFICATION OF WPS, WPQ AS PER ASME SEC-IX BY BHEL TPIA

LEGEND: P: - PERFORM, W: - WITNESS, V: - VERIFICATION, INDICATING 1: - BHEL / BHEL NOMINATED INSPECTION AGENCY, 2: - VENDOR / SUB VENDOR AS APPROPRIATE AGAINST EACH COMPONENT / CHARACTERISTICS UNDER THE COLUMNS P, W & V. * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.		PREPARED BY:  ALOK BEHERA SR.ENGR/ QA	REVIEWED BY:  D S SATPUTE AGM /QA	APPROVED BY:  D S SATPUTE AGM /QA
Format no. : HYQA/QP/VSQP Rev.02				

		BHARAT HEAVY ELECTRICALS LIMITED R.C.PURAM, HYDERABAD		STANDARD QUALITY PLAN FOR VENDOR ITEMS				QP. NO: HY/HE/016/DE					
				ITEM: CS DISHED ENDS BHEL SPEC: HE 51370 Rev.00				REV. NO. : 03					
								DATE: 16.04.2018					
								VALID UPTO: 20.04.2020					
									PAGE 3 OF 3				
SL NO	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REF DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	* D	AGENCY P W V			REMARKS

7. NORMALIZATION SHALL BE DONE FOR SPHERICAL DISH ALSO AFTER PRESSING

8. SPHERICAL DISH SHALL BE OF SEAMLESS CONSTRUCTION AND PROFILE SHOULD MATCH WITH DISHED END OD AS PER BHEL DRAWING .

GENERAL NOTES:

1. This QP should be read along with BHEL Spec, BHEL drawings / approved drawings, data sheet, BOM and PO.
2. Latest revisions of specification / drawings as per P.O., approved drawings & bill of materials are applicable.
3. Any other tests/ checks indicated in specification, P.O., or drawing & any additional checks envisaged by BHEL/TPI to ensure workmanship, finish, aesthetics, etc. shall also be conducted and witnessed/verified by BHEL /TPI / customer as required.
4. All test certificates/ reports reviewed and certified by BHEL/TPI shall be submitted to BHEL as documentation package.
5. Drawing / Data Sheet shall prevail over Quality Plan in case of any contradiction between Quality Plan and Drawing / Data Sheet.
6. Any project / customer specific requirement, like QP approval & Customer/Consultant Inspection, which shall be notified have to be fulfilled by the vendor at the time of execution of order.
7. This QP shall not be applicable to the orders for which QP approval & Inspection by customer/consultant is required.
8. This SQP is not applicable for vendors supplying this item for the first time to BHEL.

MTC – Mill Test Certificate

TC – Test Certificate

IR – Inspection Report

COC – Certificate of Conformity

TPIA – Third Party Inspection Agency appointed by BHEL.

PO – Purchase Order

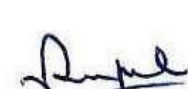
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 INDICATING 1: - BHEL / BHEL NOMINATED INSPECTION AGENCY, 2: - VENDOR / SUB VENDOR AS
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 * D: RECORDS IDENTIFIED WITH TICK (✓) SHALL BE ESSENTIALLY INCLUDED IN QA DOCUMENTATION.

PREPARED BY:


ALOK BEHERA
 SR.ENGR/ QA

REVIEWED BY:


D S SATPUTE
 AGM /QA

APPROVED BY:


D S SATPUTE
 AGM /QA

(Attachment to Enquiry No. E5A1S85415 Due on Date 23.04.2019 for submission by 11.00 hrs to open from 14.00 hrs.)			
INSTRUCTIONS TO BIDDER (ITB)			
NOTE: Bidder to confirm in affirmative by typing "YES" or "Applicable Data" in the response column. Deviations , if any shall be recorded in deviations/comments column (Separate sheet can be attached if needed). Non deviatable clauses are indicated as "NON DEVIATABLE".			
Sl. No.	DETAILED TERMS & CONDITIONS	VENDOR RESPONSE (YES/NO)	DEVIATIONS / COMMENT
1	SCOPE OF SUPPLY:		
	Signed & Sealed offers are invited for the Scope of Supply of goods and Services or both as detailed in the enquiry. Relevant enclosures/supporting documents / catalogue, if any shall be enclosed to the technical offer. Bidder can also submit offer through email at their own risk. The offer is to be submitted in two parts. Technical offer to be submitted to mail ID technicalbid_hyd@bhel.in , and price bid to be submitted to mail ID pricebid_hyd@bhel.in as an attachment only. Interchanging the information in the mails may lead to rejection of the offer. Supplier shall have no claim on e-mail offers sent on any other e-mail ID. In case of e-mail offers, the mail subject should contain Enquiry No. Due date and Supplier name, Supplier address including contact details shall be mentioned in the content of the mail. Without these details offer is liable for rejection.		
2	GENERAL INSTRUCTIONS:		
A	The quotation should be neatly typed and free from over writing/ erasures. Any correction or addition must be authenticated. The offer including annexures and brochures should be submitted in English / Hindi. All Pages of Techno Commercial Bids (Main Pages), ITB should be signed and Stamped. If there is a conflict in case of bilingual submission, the submission in English will be final.		Non Deviatable
B	In case of Single-Part bid Tender, the complete bid shall be submitted in a single sealed cover super subscribing the Tender number and due date. Incomplete offers are liable for rejection. E mail bids shall be sent to mail ID pricebid_hyd@bhel.in as an attachment only.		Non Deviatable
C	Bidders to please note that the Terms & conditions contained in this document and Special conditions, if any, are to be read fully before submission of quotations.		Non Deviatable
D	BHEL reserves the right to process the tender through Reverse Auction (RA) route. Bidders are requested to go through RA guidelines (which are attached) and confirm acceptance of the same. Otherwise the offer is liable for rejection. BHEL will decide (after technical bid opening), at its discretion, to process the tender through Reverse Auction or by opening price bids.		Non Deviatable
E	Vendors are advised to comply with specific conditions of the enquiry, Should there be any deviations (where deviations are permitted), it shall be entered in the deviation column. BHEL reserves the right to reject such offers or load the bid suitably for evaluation.		Non Deviatable
F	Offers shall be submitted directly, only by the vendor or by their authorized representative / agent and the offer should be in line with the regulatory guidelines (i.e A valid Agency agreement between principal vendor and agent / representative shall be attached and the agreement shall cover the scope of services rendered by Agent, Agency Commission and any other information called for as per the regulatory guidelines). OEM / Mill details shall be provided if supplier is not a manufacturer. Bid envelops shall bear the name of Supplier. In case of submission through authorized representative/agent, the name of representative/agent should also be mentioned apart from supplier name.		Non Deviatable
G	Offer received after the specified time and date of submission shall be rejected. No further correspondence shall be entertained.		Non Deviatable
H	Unsolicited offers shall not be considered.		Non Deviatable
3	OTHER PARTICULARS (Please indicate applicable data)		
A	Name of the Bid currency (freely tradable foreign currency for imports and Indian Rupees for indigenous purchase).		
B	Name of the Port of loading and Port of Discharge (applicable to imports).		
4	BID SUBMISSION PROCEDURE:		
A.	For Single Part Bids: Offers addressed to DGM/CMM, Vendor Complex, BHEL, Hyderabad must be sent in a sealed cover on which tender enquiry number and the due date shall be super subscribed and sent by appropriate mode to above address or dropped in tender box located at vendor complex on or before the specified time and date of submission of offers, preferably in the bidder's envelope. For e-mail offers please follow the procedure mentioned in 2 (B).		Non Deviatable
B.	For two-Part Bids:		

i	Two part bid consisting of i)Techno-commercial Bid - (Part-I), with all technical specification & scope including bill of material etc., EMD (where applicable) and unpriced bid with all applicable Commercial Terms and Conditions, rates of agency commission , duties, taxes and other charges, <u>except</u> ii) <u>the price,</u> super scribing enquiry No. (Techno-Commercial Bid) and due date Signed and Stamped ITB and special conditions of contract, if any is required to be attached along with Techno-commercial Bid - (Part-1) AND iii)Price Bid (Part-II), containing ONLY the price (including agency commission, if any) and the applicable duties/taxes/other charges shall be kept in a separate sealed cover super subscribing Enquiry no. (Price bid) & due date. Both these covers shall be kept in a Third cover super subscribing Enquiry no. & due date. All techno commercial terms & conditions mutually agreed prior to price bid opening shall prevail and supersede any terms and conditions specified otherwise in price bid.		Non Deviatable
ii	Techno-commercial Bid will be opened on the assigned date .Only the price bids of vendors whose techno commercial bids are accepted will be opened later on a specified date. In case BHEL opts for Reverse Auction, the date of conducting RA will be intimated separately to all the qualified bidders.		Non Deviatable
iii	The bidders whose bids are techno commercially not accepted will be informed & EMD (Earnest Money Deposit) shall be returned wherever submitted.		
iv	Bidders will be allowed to submit the impact on their quoted prices due to changes in technical scope, specifications, and commercial terms/conditions as specified in NIT which in the opinion of BHEL warrant changes in prices.		Non Deviatable
v	Bids shall be opened on due time and date in the presence of bidders who may like to be present. Only one representative of each bidder shall be permitted to attend the bid opening.		Non Deviatable
5	Delivery Instructions		
A	Indigenous Purchase		
	Goods shall be delivered on FOR Destination basis to the named destination(s) or as specified in the enquiry, Insurance in the scope of supplier.		
B.	Imports		
	The goods shall be delivered on CIP-basis to port of discharge as mentioned in the purchase order.		
6	Documentation:		
A	Indigenous Purchase		
	Seller shall arrange to send to BHEL, Hyderabad along with all the required documents as detailed in Purchase Order, such as, Tax Invoice (Original for Recipient, Duplicate for Transporter), consignee copy of LR, Packing list , Pre-dispatch Inspection report, Test/ Guarantee/ Warranty certificate/ O&M manuals (as applicable) etc. immediately on dispatch of the goods. Any addition/ exclusion to such documents shall be as specified in the Purchase Order. In case of dispatches from vendor works to site, material receipt certified by site office / Customer shall be provided. Softcopies of the above documents shall be uploaded in Pradan portal https://web.bhelhyd.co.in/mm/ immediately after dispatch of the material		Non Deviatable
B	Imports		
	i) Seller shall inform the purchaser the readiness of material along with packing details well in 30 days advance from the date of delivery. Seller shall also upload soft copy of the dispatch documents consisting of BL / AWB, Invoice, Shipping list & Test certificates and other documents as specifically indicated in the Purchase Order in PRADAN Portal (https://web.bhelhyd.co.in/mm/) within 3 days from the B/L date for sea shipment and 1 day from AWB date for Air shipment. ii) In case of CIP shipments, seller shall also inform purchaser the information about discharge port agent details and ship arrival information within 7 working days from the date of Shipment. iii) In case the material shipped in Full Containers(FCL), Seller shall ensure that the Bill of Lading should clearly spell out the following 1. Port of discharge -- "Nhavaseva"/chennai 2. Place of Delivery / Final Destination - "ICD Sanath Nagar". 3. For air consignment the port of discharge will be Hyderabad, India and consignee shall be BHEL.		
	iv) In case of Air shipment, the following dimensions of single package may be noted.		

a). Dimension of the cargo(ODC) -- > 125" x 88" x 63"

b).Weight of the cargo -- >3.5 MT.

If any package dimension or weight crosses the above set limits, it will be treated as Over Dimension Cargo (ODC) or Over Weight Cargo and seller shall inform BHEL well in advance of 20 days prior to the delivery date to enable BHEL to finalize the freight forwarder

(v). Recovery charges for non-submission of documents : -

Seller shall submit all the required documents to BHEL as prescribed in the Purchase order and NIT.

If BHEL incurs any charges such as Penalty, demurrage, container detention, wharf age, storage, Ground rent etc., due to non - compliance / non - submission of documents prescribed in Purchase Order/Tender Document/Letter of credit , the same shall be recovered from the seller as under:

1. EUROPE/USA/Black Sea/ Far East/Middle East/South East sector

A. For EX-WORKS / FCA/ FAS / FOB Sea Consignments:-

Penalty for late submission / negotiation of documents beyond 14 days shall be as under:

Sl. no	Period (From Date of Bill of Lading)	Recoverable Charges	Recoverable Charges per day per container	
		LCL per week/ Break bulk cargo per day	20FT Container	40FT Container
i	Upto 14th day	Nil	Nil	Nil
ii	15th day onward	USD 10	USD 50	USD 105

B. For CIF / CFR / CIP / CPT Sea Shipments:-

For CIF / CFR / CIP / CPT Sea Shipments, Vendor shall provide rates for detention charges after free period at the time of offer itself in case of engagement of 20FT Container and 40FT category. In case of late presentation of documents to the bank recovery will be effected from the Vendor as per the rates quoted by the Vendor at the time of offer in this regard.

In case of Break bulk cargo and LCL Demurrage/storage charges shall be recovered at rate of USD 10 per day and storage charges rate of USD 10 per week respectively shall be charged as late presentation charges.

(vi) Description of items in invoice, packing list, BL / AWB or LR shall be same as PO item description. Vendors shall ensure that invoice shall contain PAN nos. of both seller and buyer along with other tax related numbers. BHEL PAN AAACB4146P and BHEL TAN HYDB00086C

Any other additional documents sought by the statutory authorities, the same shall be produced by the seller on priority basis.

(vii) Seller shall provide package details including number of packages, gross weight, net weight etc.

(viii) The seller shall provide the following documents at the time of submission of offer :-

- No Business Connection in India declaration issued by the seller as per the format specified. (or)
- (i) No Permanent Establishment in India declaration issued by the seller as per the format specified.
(ii) Tax Residence Certificate issued by the seller's tax authorities.
(iii) Form 10F issued by the supplier.
- In case the seller has a Business Connection in India as per Section 9 of Income Tax Act or

Permanent Establishment in India as per Article 5 of Double Taxation Avoidance Agreement between India and the seller's country, the seller shall provide a withholding tax order issued by the Indian Income Tax authority for recovery of applicable tax.

7	Delivery Schedule		
A	The tendered goods shall be delivered within the period stipulated in PO . Delivery at BHEL can be accepted at the earliest, 30 days prior to delivery date as mentioned in the Purchase order. Delivery earlier than 30 days of contractual delivery date may be accepted with the written permission of BHEL -Purchase department. Goods arriving after the delivery date will be accepted only with the prior written permission of BHEL otherwise they will not be allowed inside the factory. BHEL reserves the right to reject the material, if not delivered by scheduled Purchase Order Delivery Date. (In case of imports , the final entry date of Import General Manifest (IGM) will be reckoned as delivery completion date)		Non Deviatable
B	Documents such as TC,GCs Inspection reports are to be submitted within 10 days of dispatch of these materials. C note date or Date of submission of documents whichever is later shall be considered as delivery date incase documents are not submitted within 10 days from the dispatch of the material. Supply of plant/ equipment/ stores shall not be considered complete until they have been inspected and accepted at the place and destination specified for delivery by the time stipulated under the terms & conditions of the Order/ Contract. Mere payment by itself shall not constitute acceptance of the goods or materials in any manner, whatsoever.		
8	Pricing Terms		
	Prices once quoted shall remain firm and valid during the execution of PO. Offers with PVC will be rejected outright except in cases where specifically called for in the NIT.		Non Deviatable
9	PRICE VALIDITY :		
	Unless otherwise specified, offer shall be valid for a period of 90 days from the date of bid opening (Technical bid /part-I in case of two part bid). However the prices quoted for spare parts of the Main equipment shall be kept valid for a period of 1 year from the date of Placement of PO for the main equipment.		
10	Taxes & Duties (RATE TO BE INDICATED by the bidder against the space provided)		
A	Indigenous Purchase		
	The Taxes as applicable shall be quoted in the following manner.		
i	Vendor to indicate HSN of Goods or SAC of Services.		
ii	IGST/CGST/SGST/UTGST: Rate of Tax to be quoted as extra in %		
	NOTE: Bidders to ensure correct applicability of IGST/CGST/SGST/UTGST based on the Inter / Intra state movement of goods. Taxes prevalent on the contractual delivery date or the actual delivery date (in case of delay) which ever is lower shall be applicable paid. In case Bidder has opted for GST Composition Scheme, the same may be stated explicitly both in their technical and price bids.		
iii	Any other taxes & duties not covered anywhere above may be indicated separately.		
iv	Taxes deducted at source: TDS as per the extant statute shall be recovered. In case vendor does not provide PAN details/concessional certificates, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act.		Non Deviatable
B.	Foreign Purchase (Imports)		
i	The offered price shall be inclusive of all the Taxes and duties as applicable in country of bidder / country of dispatch for the quoted CIP price.		Non Deviatable
ii	Taxes deducted at source: TDS as per the extant statute shall be recovered. In case vendor does not provide PAN details/concessional certificates, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act.		Non Deviatable
11	Payment Terms: Unless otherwise specified in Special Conditions, following shall be the terms of Payment.		

A	Indigenous: 100% payment along with taxes, freight & insurance will be made within 75 days from the date of receipt of complete documentation as per PO. However payment would be done only after receipt of original documents, including site/ Customer acknowledgement on LR (MRC - Material Receipt Certificate at site) / GR clearance at BHEL Stores. For MSEs (covered under MSME Act) which are registered and periodically renewed with BHEL, this period will be 45 days* as prescribed in the relevant act. Adherence to the above time schedule of payment is contingent upon Vendor complying with GST provisions and availment of Input Tax Credit by BHEL before the date of payment. *The taxes and duties that are reimbursed would be the ones applicable as on the contractual Purchase Order delivery date or the amount actually paid whichever is less. In case GST credit is delayed/ denied to BHEL, due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST Law for availing such ITC, or any other reason not attributable to BHEL, GST amount shall be recoverable from Vendor along with interest levied/ leviable on BHEL.		
B	Imports:- i) 100% payment (less Indian Agency Commission, if any) shall be paid through "Usance Letter of Credit / Cash Against Documents (CAD) / Wire Transfer" with a credit period of 60 days ii) LC will be opened after successful completion of pre dispatch inspection prior to the scheduled / agreed delivery date LC will be opened within 7 working days from the date of request.		
C	Note: 1) No advance payment is acceptable. However, in exceptional/rare cases, BHEL at its discretion, may consider advance payment against Bank Guarantee valid up to receipt of material at BHEL for 110% of advance amount issued / confirmed by any of the BHEL consortium banks. 2) Wherever EMD (Earnest Money Deposit) is applicable, it may be noted that no interest will be paid on EMD and the EMD will be paid back to unsuccessful bidders within fifteen days after award of the contract. Successful bidder's EMD will be converted to SD (Security Deposit). Tender Cost wherever applicable is not refundable.		Non Deviatable
12	Penalty clause: In the event of delay in supply of goods, penalty of 0.5% per week or part there of shall be levied on the undelivered portion subject to a maximum of 10% of the order value. Penalty amount so determined along with applicable GST thereon shall be recovered.		
13	Excess materials supplied beyond tolerance limit as specified in PO, will not be accounted for.		Non Deviatable
14	Rejected materials, if any, shall be collected by the vendor within 90 days of such communication to the vendor .Beyond 90 days a ground rent of 0.25 % of the value of the material per week will be levied for a maximum period of two weeks.. Beyond this period the supplier forfeits their right to the materials.		Non Deviatable
15	Guarantee / Warranty Period : (Deviation to this clause is not acceptable.) Wherever required, and so provided in the specifications/Purchase Order, the seller shall guarantee that the goods supplied shall comply with the specifications laid down, for materials, workmanship and performance. If within the guarantee period, the delivery is found to be non-complaint, the seller shall on his own account, replace repair, or re-execute the delivery at Purchaser's discretion on the purchaser's first request or within the mutually agreed period, without prejudice to Purchaser's other legal rights. If the seller continues to default on their obligations, purchaser has the right to proceed to replace, repair or re- execute the order at the seller's expense, with or without help from third parties. Purchaser shall notify the seller of the exercise of this right in advance where ever possible. Unless otherwise specified, guarantee period shall be 12 months from the date of commissioning or 18 months from the date of supply/replacement whichever is earlier. For bought out packages which are intended to be incorporated in installations or systems the guarantee period shall not start until the time the installations or systems are commissioned, provided always that the period ends not later than 30 months after the date of supply of the goods. The guarantee period shall be extended by the period during which the goods are not in compliance. A guarantee period as described above shall apply afresh to replaced, repaired or re-executed parts of a delivery.		Non Deviatable

NOTE: Deviations (Commercial as well as Technical) from the tender specifications and conditions are generally not acceptable. However, deviation if any, shall be brought out clearly with proper justification in the offer. The deviation, if considered by BHEL, shall be loaded for comparison, while evaluating the offer. If a bidder unconditionally withdraws any deviation before price bid opening, the same shall not be loaded. Loading criteria in respect of major commercial conditions where deviations if any are accepted shall be as per clause No.16.
The Vendors may specifically note the following.

16	Evaluation and Loading Criteria:
A	Evaluation of prices shall be done item-wise unless otherwise specified in the enquiry. Evaluation shall be on the basis of delivered cost, i.e. "total cost to BHEL" w.r.t the finalized technical scope and commercial conditions (after considering incidence of applicable taxes and duties and loading). For evaluation, exchange rate (TT selling rate of State Bank of India) as on the date of bid opening (Part-I, in case of two-part bids) shall be considered. If the relevant day happens to be a bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken.
B	In case of foreign bidders, the quoted CIP price shall be loaded by the following factors to arrive at the Delivered Cost:
i	- Import duty as applicable at the time of Price/ Part-II bid opening.
ii	- Port handling/ clearing charges & inland freight and insurance: @ 5% of CIP value (10% for plates, pipes & structurals).
iii	In other cases subject to acceptance by BHEL, loading for various factors (in addition to above) as the case may be will be done as follows: 0.5% for unloading at Port of Destination Marine Freight 4% and Marine Insurance 1% (9% and 1% towards Freight and Insurance respectively for Plates, Pipes, Rounds & Structurals)
C	Incase of Indigenous Bidders, Ex-works offers received (as against FOR Destination mentioned in enquiry) shall be loaded by 4% of Ex-works value (9% for plates, pipes, rounds & structurals) unless otherwise mentioned in enquiry.
D	Deviated Penalty: Any loading on penalty clause shall be 10% or to the extent to which the vendor has opted for deviation.
E	Deviated Payment Terms: Terms: In case BHEL considers any deviation in payment terms, the bids shall be loaded with 18% interest per annum to the extent of deviation.
17	Procurement directly from the manufacturers/ suppliers shall be preferred. However, no agent shall be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from both from the manufacturer/ supplier and the agent, bid received from the agent shall be ignored.
18	RIGHT OF REJECTION /NON- PLACEMENT OF PO: BHEL reserves the right to accept or reject any or all bid/s in full or part without assigning any reason whatsoever.
19	INTEGRITY PACT Vendors shall have to enter into Integrity Pact with BHEL as per attachment - for order value of rupees five crores and above and shall be signed by the competent authority before the issue of purchase order, failing which vendor's offer will be rejected.
20	Make in India For this Procurement , Public Procurement (Preference to Make in India) , Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of the NIT but before finalization of Contract / PO/ WO against this NIT . In the event of any Nodal Ministry prescribing higher or lower percentage of Purchase preference and / or local content in respect of this procurement , same shall be applicable . Preference to Make in India including counter offering will be as per the Public Procurement (Preference to Make in India) , Order 2017 available in the following links https://dipp.gov.in/sites/default/files/publicProcurement_MakeinIndia_15June2017.pdf https://dipp.gov.in/sites/default/files/Revised-PPP-MII-Order-2017_28052018.pdf Proforma for self certification for minimum local content and auditor's certification is given in Annexure III .
21	Benefits earmarked for Purchase from Micro & Small Enterprises (MSEs) – Indigenous Purchase
21 A	All Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy are exempt from Paying earnest money deposit . NSIC registered unit bidders shall submit NSIC Certificate along with bid documents. Date to be reckoned for determining the deemed validity will be the last date of Technical bid submission. Non- submission of such document will lead to consideration of their bid, at par with other bidders and MSE status of such bidders shall be shifted to Non- MSE Category till the supplier submits these documents
21 B	In tender,if MSEs quoting price within price band of L1+15% shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a MSE and such MSE shall be allowed to supply up to 25% of total tendered value. In case of more than one such MSE, the supply shall be shared proportionately. Out of these 25% minimum 3% shall be earmarked for MSEs owned by women and 6.25% for MSEs owned by SC/STs who submit the bid along with relevant documents . This is applicable in case of item-level evaluation tenders and divisible tenders .
21 C	If an enterprise falling under MSME category as defined in the Act, graduates to a higher category from its original category or beyond the purview of the Act, it shall continue to avail all non-tax benefits of its original category notified by the Ministry of Micro, Small and Medium Enterprise for a period of three years from the date of such graduation to the higher category.

22	Startups : For Startups Medium Enterprises, Condition of prior turnover and prior experience in Public Procurement may be relaxed subject to meeting of Quality and Technical Specifications . Startups are exempt from paying earnest money deposit .
23	For Claiming Payments for goods received at BHEL works / Site from Vendors' Works) a. Original of Invoice marked as ORIGINAL FOR RECIPIENT b. Duplicate of Invoice marked as DUPLICATE FOR TRANSPORTER c. Packing List - clearly showing number of packages, gross weight and net weight. d. Warranty/Guarantee certificates (If applicable as per PO terms) e. Insurance certificate f. Third Party Inspection Certificates. g. LR Copy signed & stamped by Site incharge / Customer for site deliveries) (For material received at BHEL payment will be made against GR for accepted quantity)
24	Inspection Measuring and Test Equipment (IMTE) whether used by the Seller/ Contractor or sub-contractor shall be calibrated, maintained and controlled. Calibration shall be valid and IMTE maintained in sound condition during usage.
25	ISO-9001, ISO14001 and OHSAS 18001 shall be complied
26	Applicable Conditions :These General conditions of Contract for Purchase apply to all enquiries, tenders, request for quotations, orders and agreements concerning the supply of goods and the rendering of related services (hereinafter referred to as "deliverables") to Bharat Heavy Electricals Limited, Ramachandrapuram , Hyderabad (hereinafter referred to as "BHEL" or the Purchaser) or its projects/customers. Any deviations from or additions to these General conditions of contract for Purchase' require Purchaser's express written consent. The general terms of business or sale of the Seller shall not apply to Purchaser. Orders, agreements and amendments thereto shall be binding if made or confirmed by the Purchaser in writing. Only the Purchasing department of the Purchaser is authorized to issue the Purchase order or any amendment thereof.
27	Being PMD Vendor, if you are not quoting against this tender enquiry, please send your regret letter positively for our reference with valid reasons for not participating in the tender enquiry. Repeated lack of response on the part of bidder may lead to deletion such PMD vendor from BHEL's approved vendor list Vendor shall ensure that PAN details are available/updated with BHEL, else Vendor shall attach PAN details with enquiry failing which offer shall be liable for rejection.
28	Kindly quote your prices in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 Status
29	Any discount / revised offer / bids submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of offer / bid submission (Part-1). Conditional discounts shall not be considered for evaluation of tenders.
30	The bidder whose bid is technically not accepted will be informed & EMD wherever submitted shall be returned after finalization of contract. EMD shall be forfeited in the event of bidder opting out after tender opening.
31	In case of abnormal delays (beyond the maximum late delivery period as per Penalty clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / equivalent market price at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. Nonperformance of contract attracts penal provisions inline with BHEL's Suspension of Business dealings.
32	Any other terms and conditions of the bidder attached / referred against the tender enquiry will not be considered.
33	All drawings as also all patterns and tool supplied by BHEL or made at BHEL's expense are BHEL's property. These cannot be used or referred to any other party and must only be used in the execution of BHEL's orders.
34	Any amount payable by the consignor / supplier under any of the condition of this contract shall be liable to be adjusted against any amount payable to the consignor / supplier under any other work / contract awarded to him. This is without prejudice to any other action as may be deemed fit by BHEL.
35	The bids of the bidders who are on the banned list and also the bids of the bidders, who engage the services of the banned firms, shall be rejected. The list of firms banned by BHEL is available on BHEL web site www.bhel.com
36	Definitions
Throughout these conditions and in the specifications, the following terms shall have the meanings assigned to them, unless the subject matter or the context requires otherwise.	
36A	Purchaser' means BHEL-HPEP, Ramachandrapuram, Hyderabad-502 032 of Bharat Heavy Electricals Limited (A Govt. of India Undertaking) incorporated under the companies Act having its registered office at BHEL House, Siri fort, New Delhi-110049, India and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.
36 B	'The seller' means the persons, firm, company or organization on whom the Purchase order is placed and shall be deemed to include the seller's successors, representatives, heirs, executors and administrator as the case may be. It may also be referred to as Contractor, supplier or vendor.

36 c	'Contract' shall mean and include the Purchase order incorporating various documents viz., tender/offer, letter of intent/acceptance, the General Conditions of contract and special conditions of contract for Purchase, specifications, inspection/quality plan, schedule of prices and quantities, drawings, if any enclosed are to be provided by the Purchaser or his authorized nominee and the samples or patterns if any to be provided under the provision of the contract. In case of any inconsistency or contradiction between any of the documents, the order of precedence shall be Purchase Order, LOI/LOA followed by specific conditions, special conditions of contract and general conditions of contract for commercial conditions; and specific agreement on technical conditions, special technical conditions and general technical conditions, tender/offer.
37	'Parties to the contract' shall mean the seller and the purchaser as named in the main body of the Purchase Order.
38	Ordering and confirmation of order
	The seller shall send the order acceptance in Toto within one week from the date of LOI/Purchase order or such other period as specified/agreed by the Purchaser. Purchaser reserves the right to revoke the order placed if the order confirmation differs from the original order placed. Purchaser shall only be legally bound if agreed explicitly in writing to be in agreement with the deviation. The acceptance of deliverables or supplies by Purchaser as well as payments made in this regard shall not imply acceptance of any deviations. The Purchaser order will be deemed to have been accepted if no communication to the contrary is received within one week (or the time limit as specified /agreed by the Purchaser) from the date of P.O. Purchaser, is at liberty to send signed P.O. through electronic media such as e-mail and the receipt of which shall be treated as receipt of order.
39	Execution
	The whole contract is to be executed in the most workman like manner, substantial and approved as per the contracted terms.
40	Progress Report
	The seller shall render such report as to the progress of work and in such form as may be called for by the Purchaser from time to time. The submission and acceptance of such reports shall not prejudice the rights of the purchaser in any manner. Seller shall communicate to BHEL immediately, change of address, ownership, contact person(s), the mobile numbers and e-mail of the dealing person concerned. Milestones shall be periodically updated by vendor/subcontractor through PRADAN Portal (https://web.bhelhyd.co.in/mm/). Non updation will adversely affect service rating of vendor performance.
41	Product information, Drawings and documents / Non-disclosure and Information Obligations
	Drawings, technical documents or other technical information received by one party shall not without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to third parties. All information and data contained in general product documentation, whether in electronic or any other form, are confidential and binding only to the extent that they are by reference expressly included in the contract. The seller shall, as per agreed date/s but not later than the date of delivery, provide free of charge any information and/or drawings which are necessary to permit the Purchaser to erect, commission, operate and maintain the product. Such information and drawings shall be supplied in the number of copies agreed upon or at least three copies of each. All intellectual properties, including designs, drawings and product information etc. exchanged during the formation and execution of the contract shall continue to be the property of the submitting party. The seller shall provide Purchaser with all information pertaining to the delivery in so far as it could be of importance to Purchaser. The seller shall not reveal confidential information to its own employees not involved with the tender/contract and its execution and delivery or to third parties, unless Purchaser has agreed to this in writing beforehand. The seller shall not be entitled to use the Purchaser's name in advertisements and other commercial publications including website without prior written permission from Purchaser. In the event of violation of the confidentiality as agreed, BHEL will take legal action as deemed fit. Non disclosure agreement to be entered as per Annexure- II wherever applicable.
42	Inspection and Testing
42A	The goods and stores shall be manufactured by approved quality system and each part/component may be inspected and tested by the Purchaser prior to shipment and shall fully comply with relevant requirements of Purchaser. Purchaser has the right to inspect at any stage during manufacture/ delivery. In the event of rejection, Purchaser shall inform the seller accordingly and Purchaser shall be entitled to replacement or repair at his discretion or may proceed to terminate or cancel the agreement. All this, does not affect Purchaser's right to recover compensation.

42 B	Purchaser or his authorized representative shall be entitled at all reasonable times during execution to inspect, examine and test at the seller's premises the material and workmanship of all stores to be supplied under the contract, and if the part of the stores are being manufactured at other premises, the seller shall obtain for purchaser or his authorized representative permission to inspect, examine and test as if the said stores are being manufactured at the seller's premises. Such inspection, examination and testing, if made shall not release the seller from any obligation under the contract. For indigenous suppliers all costs related to first inspection request shall be borne by the purchaser and the cost of subsequent inspections due to non-readiness of material/rework/ rejections shall be borne by the seller. In case of imports all inspection charges including third party inspections if any shall be borne by the seller. The cost of inspection staff/third party specified by the Purchaser shall be borne by seller unless otherwise specifically agreed. Whether the contract provides for tests on the premises of the seller or any of his sub-contractor/s, seller shall be responsible to provide such assistance, labor, materials, electricity, fuels, stores, apparatus, instruments as may be required and as may be reasonably demanded to carry out such tests efficiently. Cost of any type test or such other special tests shall be borne by the seller unless otherwise specifically agreed in the contract. The Seller shall give the authorized representative of the purchaser reasonable notice in writing of the date on and the place at which any stores will be ready for inspection/ testing as provided in the Contract. Annexure - I may be strictly be complied with for the time lines. Any delay in submission of the documents by the vendor will not alter the delivery date.
43	Quality and Condition of the Deliverables The seller shall be responsible for compliance with applicable technical, safety, quality, environmental requirements and other regulations in relation to his products, packaging and raw and ancillary materials.
44	Packaging and Dispatch The seller shall package the deliverables safely and carefully and pack them suitably in all respects considering the peculiarity of the material for normal safe transport by sea/air/rail/road to its destination suitably protected against loss, damage, corrosion in transit and the effect or tropical salt laden atmosphere. The packages shall be provided with fixtures/hooks and sling marks as may be required for easy and safe handling by mechanical means. Special packaging conditions/ environmental conditions as defined in the enquiry shall be fully complied. Each package must be marked with consignee name, P.O. number Package No. gross weight & net weight, dimensions (LxBxH) and seller's name. The packing shall allow for easy removal and checking of goods on receipt and comply with carrier's conditions of packing or established trade practices. Packing list of goods inside each package with P.O. item No. & quantity must also be fixed securely outside the box to indicate the contents. If any consignment needs special handling instruction, the same shall be clearly marked with standard symbols/instructions. Hazardous material should be notified as such and their packing, transportation and other protection must confirm to relevant regulations.
45	Delivery: Except as otherwise indicated in the Purchase order, delivery shall be FOR (Destination) for indigenous orders and CIP for imported orders. The delivery date (s) or delivery period (s) as stipulated in the agreement shall be firm and binding and shall apply to the entire delivery for each P.O. item. Partial shipments may however, be permitted by the purchaser on prior intimation from the Seller. Unless specifically agreed otherwise, transit insurance coverage will only be within India for imported consignments by BHEL. Accordingly, the seller shall send an intimation to the Purchase officer/Manager giving Purchase Order No., shipping particulars, Invoice value etc., immediately on dispatch of goods.
46	Penalty The time or period of delivery as stipulated in the schedule of delivery shall be deemed to be the essence of the contract. Should circumstances arise whereby the deadline for an agreed delivery date(s) or period(s) is expected to be exceeded, the seller shall inform Purchaser hereof without delay. If delay in delivery is caused by any of the circumstances mentioned in clause 52 (Force Majeure) or which are caused exclusively by the acts of Purchaser, the Purchaser shall extend the time for delivery by a period which is reasonable having regard to all the circumstances in the case. If the Seller delays beyond any agreed delivery date(s) or period(s), Purchaser shall levy penalty for such delay @ 0.5% per week (7 days) or part thereof on delayed portion of the order value subject to a maximum of 10% of the value of the Purchase Order. However, penalty for delayed delivery will be calculated on 100% of the purchase order value if the material supplied cannot be put to intended use. The penalty will be charged on the value of the purchase order excluding statutory levies, freight and insurance wherever not included in the price. Penalty amount so determined along with applicable GST thereon shall be recovered. Imposition, recovery or settlement of this penalty shall not affect Purchaser's right to performance, compensation and termination of the agreement. For delay analysis, period referred in Annexure-I will be considered as standard time lines for various major activities.
47	Transfer of Ownership and Risk The risk for the delivery remains with the seller until the goods are delivered at the agreed place. However ownership shall get transferred as per terms of purchase order in line with INCOTERMS.
48	Price, invoicing and payment

	The agreed prices are fixed prices in the currency as specified in the Purchase Order. They shall include packing, forwarding , loading and carriage to the place specified by the purchaser and are exclusive of all applicable taxes, duties etc., except for those specifically agreed by the Purchaser. Invoices shall be submitted bearing the Purchase Order number & date, item number/s and supporting documents as called for in the Purchaser order. The direct payments (including LC/documents through Bank on collection basis), shall be made by E-payment mode and not by cheque /bank drafts except in special circumstances. Vendors shall furnish the E-payment particulars in the prescribed formats duly authenticated by their respective Bankers, If not got registered earlier with the Buyer. - Invoice has to be raised quoting HSN Code of Goods or Accounting Code of Services. Invoice should mention BHEL-HPEP-HYDERABAD GSTIN: 36AAACB4146P1ZG or GSTIN of BHEL Nodal Agency as mentioned in PO.
	Indian Agency commission if payable and so specified in the Purchase order shall be paid in Indian Rupees, considering the SBI TT selling exchange rate prevailing on the date of tender opening (part 1 in case of two part bid), after successful completion of the contract. If so stipulated in the order, the seller shall furnish, on receipt of the Purchase Order or along with order acknowledgement, the billing break-up of prices (BBU) for approval by the purchaser in respect of the major items/components going into the equipment. This BBU is required by the Purchaser for admitting the claims of the seller if part shipments are contemplated and also to facilitate custom clearance after payment of duties in case of imports. In case of delay in receipt of supporting document details, consequential demurrage/wharf age /detention charges shall be to the account of the seller. Payment does not imply in any respect whatsoever a waiver of Purchaser's right to performance of the agreement. Purchaser is entitled to set off claimable debts against claimable liabilities with the seller by means of a setoff Note.
49	Contract variations; Increase or decrease in the scope of supply
	Purchaser may vary the contracted scope during execution due to exigencies of project requirement. If the seller is of the opinion that the variation has an effect on the agreed price or delivery period, Purchaser shall be informed of this immediately in writing along with technical details, and in the event of additional work, submit a quotation with regards to the price and period involved, as well as the effect this additional work will have on the other work to be performed by the seller. Provided, that if unit rates are available in the contract, the same shall be applied to such additional work. The seller shall not perform additional work before purchaser has issued written instructions/amendment to the purchase order to that effect. The work which the seller should have or could have anticipated in terms of delivering the service (s) and functionality (ies) as described in this agreement should be executed by the vendor without any price implication.
50	Short shipments/ warranty/guarantee replacements
	In case of any short shipment during initial supply which is subsequently dispatched by the seller or any guarantee / warranty replacements shall be dispatched on "DDP-Delivered duty paid BHEL stores" basis for imported items and "FOR-BHEL Stores/designated destination" basis for indigenous items. Taxes, if any paid by indigenous vendor for short supply, guarantee /warranty replacement, repair activity shall be to vendor's account only. Vendor has to raise a credit note for short supplied quantity as per GST provisions.
51	Rejection/Replacement
	The seller shall arrange replacement / repair under its obligation under the contract within one month from the date of intimation or mutually agreed period. The rejected goods shall be taken away by the seller and replaced on DDP/FOR-BHEL Stores/designated destination basis within such period. In the event of the seller's failure to comply. Purchaser may take appropriate action including disposal of rejections, at the cost and risk of the seller. Vendor has to raise a credit note for rejected quantity as per GST provisions.
	In case defects attributable to seller are detected during processing of the goods at purchaser's / his subcontractor works, the seller shall be responsible for replacement /repair of the goods as required by the purchaser at seller's cost.
52	Export Administration Regulations
	If a delivery includes such technology and / or supply that is subjected to the export regulations the seller shall obtain due permissions, approvals, license etc.
53	Cancellation / Termination of contract and risk purchase
	Purchaser shall have the right to completely or partially terminate the agreement by means of written notice to that effect without prejudicing their other rights in the event that : -The seller is declared bankrupt, its business has been shut down or liquidated, a substantial part of its assets have been attached/destroyed, or the business has been transferred to a third party. -Any misrepresentation or hiding of material fact if detected at a later stage. -The delivery is rejected after inspection or re-inspection. -In the event of termination, the risk of the items already delivered but not of use to Purchaser, as determined by purchaser, remains with the seller. The items shall then be at the seller's disposal and they are to be collected by the seller. The seller shall refund any payments made by purchaser in terms of the terminated agreement immediately, not later than 30 days, - In the event of Cancellation/ termination of contract, BHEL reserves the right to procure the items which are not delivered as per PO and charge the excess cost from the defaulting seller. Incase the excess cost is not repaid by or recovered from the defaulting seller within 30 days, apart from legal recourse for effecting such recoveries, Penal action in line with BHEL's Suspension of Business dealings will be taken.
54	Force Majeure

	The supplier shall not be considered in default if delay occurs due to causes beyond their control such as Acts of God, Natural calamities, Fire, Frost, Flood, Civil War, civil commotion, riot, Government Restrictions. Only those causes that have duration of more than seven days shall be considered cause of force majeure. Notification to this effect duly certified by local chamber of commerce/statutory authorities with supporting documents shall be given by the supplier to BHEL by registered letter/courier service immediately without loss of time. In the event of delay due to such causes the delivery schedule shall be extended for a length of time equal to the period of Force Majeure or at the option of BHEL the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of BHEL. In the event of such cancellation the supplier shall refund any amount advanced or paid to the supplier by BHEL and deliver back any material issued to him by BHEL and release facilities, if any provided by BHEL.
55	Non-waiver of Defaults
	If any individual provision of the contract is invalid, the other provisions shall not be affected.
56	Settlement of Disputes
	Except as otherwise specifically provided in the contract, all disputes concerning questions of the facts arising under the contract, shall be decided by the Purchaser, subject to written appeal by the seller to the purchaser, whose decision shall be final.
	Any disputes of differences shall to the extent possible be settled amicably between the parties thereto, failing which the disputed issues shall be settled through arbitration.
	The seller shall continue to perform the contract, pending settlement of disputes(s).
57	Arbitration & conciliation clause and Interest clause : (1).Except as provided elsewhere in this contract, in case amicable settlement is not reached between the parties, in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the contract; or, the respective rights and liabilities of the parties; or, in relation to interpretation of any provision of the contract; or, in any manner touching upon the contract, then, either party may, by a notice in writing to the other party refer such dispute or difference to the sole arbitration of an arbitrator appointed by head of the BHEL unit issuing the contract. The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties. Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under this clause, the seat of arbitration shall be at Hyderabad. The cost of arbitration shall be borne as per the award of the Arbitrator. Subject to the arbitration in terms of clause 55, the courts at Sangareddy, Telangana State shall have exclusive jurisdiction over any matter arising out of or in connection with this contract. Notwithstanding the existence or any dispute or differences and / or reference for the arbitration, the contractor shall proceed with and continue without hindrance the performance of its obligations under this contract with due diligence and expedition in a professional manner except where the contract has been terminated by either party in terms of this contract. In case of contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable: In the event of any dispute or difference relating to the interpretation and application of the provisions of the contract, such dispute or difference shall be referred by either party for arbitration to the sole arbitrator in the Department of Public Enterprises to be nominated by the secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and justice, Government of India. Upon such reference the dispute shall be decided by the Law secretary or the special Secretary or Additional secretary when so authorized by the Law secretary, whose decision shall bind the parties hereto finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the arbitrator. (2) INTEREST CLAUSE: In order to bring uniformity in all the contracts / agreements entered between BHEL and its contractors / vendors / suppliers / service providers etc., it is hereby advised to incorporate the following clause in all tenders and agreements. “No interest shall be payable by BHEL on earnest money or security deposit or any money due to the contractor by BHEL.”
58	Applicable Laws and jurisdiction of Courts
	This agreement shall be construed and interpreted in accordance with the laws of India and shall have exclusive jurisdiction of Sangareddy/Hyderabad courts, Telangana, India.
59	BHEL-Fraud prevention policy shall be adhered to.
	The Bidder along with its associate/ Collaborators/ Sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention policy displayed on BHEL Website http://www.bhel.com and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.
	Fraud prevention policy and list of nodal officers is hosted on BHEL Hyderabad website web.bhelhyd.co.in
Note: Purchase officer has to fill Annexure-I while sending enquiry	

Annexure-I			
Major Activity timelines shall be considered for indigenous purchases			
S No	Activity	Agency	Timeline
1	PO acknowledgement	Vendor	_____ days from PO
2	Submission of Drawings and QP	Vendor	_____ days from PO
3	Approval of Drawings and QP	BHEL/Customer	_____ days from PO
4	Raising of Inspection Call	Vendor	_____ days from PO
5	Inspection completion	Self/BHEL/Third party inspection agency	_____ days from inspection call date
6	Despatch Instructions	BHEL	_____ days from inspection report
7	Reciept of Material	Vendor	_____ days from Despatch instructions

Above is illustrative only. Purchase department can add more activities depending on nature of prodcut/contracts

However absence of this annexure in NIT will entail non processing of delivery extention cases in case of delay in supplies of goods owing to reason attributable to BHEL.

(To be executed on Non- Judicial Stamp Paper for an appropriate value.
To be stamped as an agreement)

(For Suppliers on Unit's / Division's PMD)

ANNEXURE-II

Framework Confidentiality Agreement Cum Undertaking

This Agreement made on this the _____ day of (month) _____ 20 ____ ("Effective Date") by and between M/s. BHARAT HEAVY ELECTRICALS LIMITED, having registered office at "BHEL House", Siri Fort, New Delhi – 110049 (India), acting through its _____ Unit (hereinafter may be referred to as "BHEL" or "the company").

And

M/s. _____ (address) _____
represented by authorized representative Sri _____ (herein after referred to as the "Supplier").

The supplier and the company may, unless the context otherwise requires, hereinafter be collectively referred to as "Parties" or singly as the "Party".

RECITALS

Whereas, BHEL is engaged in the design, engineering, manufacturing, construction, testing, commissioning and servicing of a wide range of products, systems and services for the core sectors of the economy, viz. Power, Transmission, Industry, Transportation, Renewable energy, Oil & Gas and Defence and providing associated services to varied customers in relation to which BHEL / its affiliates own valuable information of a secret and confidential nature.

Whereas the Company may, in connection with contract(s) (as defined hereunder) placed or to be placed upon the supplier, or otherwise, from time to time, make available, Technical Information as is defined hereunder.

And Whereas BHEL is willing to provide such Technical Information to the Supplier from time to time and the Supplier understands and acknowledges that such Technical Information is valuable for the Company and as such is willing to protect confidentiality of such information, subject to the terms and conditions set out hereunder.

Now therefore, in view of the foregoing premises and in consideration of the mutual covenants and agreements hereinafter set forth, the parties agree as under:

1. Definitions:

Unless the context so requires, in this Agreement, the following terms will bear the meaning ascribed to the said term in this clause.

- A. **“Contract”** means the contract entered into with a supplier and includes a Purchase Order, or a Work Order for procurement of any goods or for provision of any services.
- B. **“Effective Date”** means the date of this Agreement as mentioned in the preamble of this Agreement.
- C. **“Supplier”** includes a Contractor or a Vendor of the Company whether for supplying of goods or for providing any services under a Contract or both.
- D. **“Technical Information”** includes Drawings, and / or Product Standards and / or Specifications and / or Corporate / Plant Specifications and / or Technological Process Sheets and / or Technical Data Sheets and / or Jigs & Fixtures and / or Pattern & Dies and / or Special Gauges and / or Tools etc. Belonging to or wherein the Company has acquired from a third party a right of user and includes any improvement thereto from time to time whether carried out by the Company or by the Suppliers.
- E. **“Intended Purpose”** means the purpose for which the Technical Information is provided to the supplier under or in connection with a contract.
- F. **“Improvement”** includes any modification made to, or adaptation of, the Technical Information which enhances or is calculated to enhance the performance (Whether in terms of effectiveness or in terms of efficiency or both) of the product and / or the service to be provided by the Supplier under a Contract.

2. This Agreement shall come into force / deemed to have come into force, as the case may be, on the Effective Date; or, on the first date when the Technical Information or any part thereof is provided by BHEL to the supplier; whichever is earlier.

3. **Agreement deemed to be incorporated in each contract:** Unless and to the extent otherwise stipulated in the Contract, the conditions of this Agreement are deemed to be incorporated in all Contracts which may be entered into between the Company and the Supplier. Further, unless otherwise stipulated, the obligations under this Agreement are and will be independent of the obligations under the Contracts and such obligations of the Supplier hereunder will remain of full effect and validity notwithstanding that the period of validity of the Contract has expired by efflux of time stipulated therein; or, the contract has been discharged by performance or breach; or, the termination of the Contracts for any reason whatsoever.

4. **Ownership:**

4.1 The Company may, from time to time, make available to the Supplier, Technical Information on a non-exclusive basis by way of loan.

4.2 The Supplier acknowledges and agrees that all Technical Information and copies thereof that are or may be provided by the Company to the Supplier, are and shall remain the property of

BHEL or that of the concerned entity from whom BHEL has obtained the Technical Information and such Technical Information are and shall constitute trade secrets of the BHEL. Nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the Supplier any patent, copyright or design or any other intellectual property rights of whatsoever description that subsists or may hereinafter exist in the Technical Information. Furthermore, nothing in this Agreement or in any disclosures made hereunder by or on behalf of the Company shall be construed as granting upon the supplier any license or right of use of such patent, copyright or design or any other intellectual property rights of whatsoever description which may now or hereafter exist in the Technical Information except for use of the Technical Information strictly in accordance with this Agreement and the contract and / or as directed in writing by the Company, solely for the Intended Purpose under the Contract.

- 4.3 Neither party is obligated by or under this Agreement to purchase from or provide to the other party any service or product and that any such purchase / sale of any product and / or service by one party to the other party will be governed by the Contract if any, that may be entered into by and between the Company and the Supplier.
- 4.4 The Supplier is / has been made well aware and acknowledges that the Technical Information being / which may be shared with it by the Company has been either generated by the Company by incurring huge investment and cost or obtained from foreign collaborators under Technical Collaboration Agreement (TCA) with stringent confidentiality conditions.
- 4.5 The supplier agrees and undertakes to adhere to confidentiality requirements as applicable to BHEL under a TCA and also ensure that the confidentiality requirements are adhered to by all its concerned employees or sub-contractors /suppliers (where permitted to be engaged by BHEL). Any damages, losses, expenses of any description whatsoever, arising out of or in connection with a breach of the confidentiality requirements under a TCA owing to any act or omission on the part of the supplier or its employees or sub-contractors / suppliers that is claimed by a foreign collaborator from the Company shall be wholly borne by the Supplier and it shall keep BHEL fully indemnified in this behalf. The demand by the Company shall be conclusive upon the Supplier who shall thereupon forthwith pay to the Company without demur, dispute or delay the amount as demanded without demanding any further proof thereof.
- 4.6 The Supplier agrees and undertakes that unless so decided and advised by the Company in writing all rights / title to any Improvement to the Technical Information shall vest in the Company. The Supplier undertakes and agrees to inform forthwith to the Company of any such Improvement made to the Technical Information and transfer all drawings / documents or other materials connected with such Improvement to the Company and also agrees to fully cooperate with the Company for protecting the Company's interests in such Improvements

in the Technical Information including but not limited to obtaining necessary protection for the intellectual property rights in such improvement, if so desired by the Company. If a question arises whether a modification amounts to improvement to the Technical Information, the same shall be decided by the Company and such decision shall be final and binding upon the supplier.

5. Use and Non – Disclosure:

5.1 Unless otherwise stipulated by the Company, all Technical Information made available to the supplier, by the Company shall be treated as Confidential irrespective of whether the same is marked or otherwise denoted to be Confidential or not.

5.2 The Supplier undertakes and agrees that the Technical Information in its possession shall be held in strict confidence and will be used strictly in accordance with this Agreement and solely for the Intended Purpose under the Contract. Use of the Technical Information for any other purpose other than Intended Purpose is prohibited.

5.3 In particular, the Supplier shall not use Technical Information or any Improvement in its possession for the manufacture or procurement of the product(s) or components or parts thereof or use the Technical Information or any portion thereof or any modification or adaptation thereof in any form to provide any product and / or service to any third party, without the prior written consent of the Company.

5.4 The Supplier shall not disclose any of such Technical Information to any third party without the prior written consent of the Company. The Supplier agrees that without prior written consent of the Company, the supplier shall not disclose to a third party about the existence of this Agreement, or of the fact that it is / was in possession of or has experience in the use of any Technical Information nor shall the Supplier share in any manner whatsoever, with a third party, the name or details of any Contract(s) awarded by the Company to it or performed by the Supplier or the scope of work thereof or share any document or correspondence by and between the Company and the supplier in or in connection with this Agreement or such Contract(s). Notwithstanding what is stated elsewhere, the overall responsibility of any breach of the confidentiality provisions under this Agreement shall rest with the Supplier.

5.5 This Supplier undertakes and agrees not to make copies or extracts of and not to disclose to other any or all of the Technical Information in its possession, except as follows:

(a) The Supplier may disclose the Technical Information to such of its officers and employees strictly to the extent as is necessary for such officer or employee for the Intended Purpose, provided that the Confidential Information (or copies thereof) disclosed shall be marked

clearly as the confidential and proprietary information of Company and that such officers and employees shall similarly be bound by undertakings of confidence, restricted use and non-disclosure in respect of the Technical Information. The Supplier shall be responsible for any breach of such confidentiality provisions by such officers and employees.

- (b) With the prior written consent of Company, the supplier may disclose for the Intended Purpose such Technical Information as is provided for in such consent to such of its professional advisers: consultants, insurers and subcontractors who shall be similarly bound by undertakings of confidence, restricted use and non-disclosure in respect of such Technical Information.
- (c) The Supplier shall not be prevented to make any disclosure required by (i) order of a court of competent jurisdiction or (ii) any competent regulatory authority or agency where such disclosure is required by law, provided that where the supplier intends to make such disclosure, it shall first consult Company and take all reasonable steps requested by it to minimize the extent of the Technical Information disclosed and to make such disclosure in confidence and also shall cooperate with the Company in seeking any protective order or any other remedy from proper authority in this matter.

6. Exceptions:

The Obligations of the Supplier pursuant to the provisions of this agreement shall not apply to any Confidential Information that:

- a) was / is known to, or in the possession of the Supplier prior to disclosure thereof by the Company;
- b) is or becomes publicly known, otherwise than as a result of a breach of this agreement by the Supplier.
- c) is developed independently of the Disclosing party by the Supplier in circumstances that do not amount to a breach of the provisions of this Agreement or the Contract;
- d) is received from a third party in circumstances that do not result in a breach of the provisions of this Agreement.

- 7. The Obligation of maintaining confidentiality of the Technical Information on each occasion, shall subsist for the entire duration during which the Technical Information / equipment is in possession of the Supplier and shall thereafter subsist for a further period of _____ years from the date when the complete Technical Information has been returned in portions on different dates, the period of ____ years will be reckoned from the date when the last portion of the Technical Information has been returned. Notwithstanding the expiry of the confidentiality obligation, the obligation of the Supplier under clause 5.4 shall continue to subsist for a further period of _____ years.

8. Warranties & Undertakings:

- a) The Supplier undertakes to ensure the due observance of the undertakings of confidence, restricted use and non-disclosure by its persons to whom it discloses or releases copies or extracts of the Technical Information.
- b) The Supplier shall keep the Technical Information or improvement made therein properly segregated and not mix up the same with any other material / documents belonging to him / it or to any other third party.
- c) The Supplier further undertakes that he / it shall not hypothecate or give on lease or otherwise alienate or do away with any of the Technical Information and / or equipment of the Company, made available to him / it, and undertakes that he / it shall hold the same as a trustee, in capacity of custodian thereof and use / utilise the same solely for the purpose of executing the contract awarded by the Company.
- d) The Supplier further undertakes that he / it shall return all the equipment and / or Technical Information as far as practicable in the same condition in which the same was made available to him / it by the Company together with any Improvement thereon and the documents connected with such Improvement, to the Company forthwith upon completion of the scope of work or contract for which such Technical Information was provided by the Company to it or as directed by the Company together with a confirmation by way of an affidavit or in such manner as directed by the Company that it has not retained any equipment and / or Technical Information / improvement thereof. In case any such equipment and / or Technical Information or thereof shall remain in his possession or is not capable of being returned, the retention and use of such Technical Information or improvement thereto shall continue to be governed by this Agreement.
- e) The Supplier undertakes to indemnify the Company for all the direct, indirect and / or consequential losses, damages, expenses whatsoever including any consequential loss of business, profits suffered by the Company owing to breach by the Supplier of its obligations under this Agreement and / or the confidentiality requirements, if any, contained in the Contract and that the Supplier hereby agrees that the decision of the Company in all such or any such matter/s shall be final and binding on the Supplier. On mere written demand of the Company, the Supplier shall forthwith and without demur or delay pay to the Company any such sum as determined by the Company as the amount of loss or damage or expense which has been suffered by the Company. The Supplier agrees that the Company shall be entitled to withhold and appropriate any amount payable to the Supplier under any Contract then existing between the Company and the Supplier, in case the Supplier fails to make payment, in terms of the written demand, within 7 days thereof. Without prejudice to the forgoing actions, in respect to any breach of this Agreement, the Company shall be entitled to take

any other action against the Supplier as per applicable laws, the Contract, Company's applicable policies, guidelines rules, procedures, etc.

9. Without prejudice to any other mode of recovery as may be available to the Company for recovery of the amount determined as due as per Clause 9 (f) hereinabove, the Company shall have a right to withhold, recovery and appropriate the amount due towards such losses, damages, expenses, from any amount due to the Supplier in respect of any other Contract (s) placed on him / it by any department / office / unit/ division of the said Company.

10. Arbitration & Conciliation:

1. Except as provided elsewhere in this contract, in case amicable settlement is not reached between the parties, in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the contract; or, the respective rights and liabilities of the parties; or, in relation to interpretation of any provision of the contract; or, in any manner touching upon the contract, then, either party may, by a notice in writing to the other party refer such dispute or difference to the sole arbitration of an arbitrator appointed by head of the BHEL unit issuing the contract.

The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties.

Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under this clause, the seat of arbitration shall be at Hyderabad.

The cost of arbitration shall be borne as per the award of the Arbitrator.

Subject to the arbitration in terms of clause 55, the courts at Sangareddy, Telangana State shall have exclusive jurisdiction over any matter arising out of or in connection with this contract.

Notwithstanding the existence or any dispute or differences and / or reference for the arbitration, the contractor shall proceed with and continue without hindrance the performance of its obligations under this contract with due diligence and expedition in a professional manner except where the contract has been terminated by either party in terms of this contract.

In case of contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the contract, such dispute or difference shall be referred by either party for arbitration to the sole arbitrator in the Department of Public Enterprises to be nominated by the secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and

justice, Government of India. Upon such reference the dispute shall be decided by the Law secretary or the special Secretary or Additional secretary when so authorized by the Law secretary, whose decision shall bind the parties hereto finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the arbitrator.

2. INTEREST CLAUSE:

In order to bring uniformity in all the contracts / agreements entered between BHEL and its contractors / vendors / suppliers / service providers etc., it is hereby advised to incorporate the following clause in all tenders and agreements.

“No interest shall be payable by BHEL on earnest money or security deposit or any money due to the contractor by BHEL.”

11. Governing Law & Jurisdiction:

This agreement shall be construed and interpreted in accordance with the laws of India and shall have exclusive jurisdiction of Sangareddy/Hyderabad courts, Telangana, India.

SIGNATURE

WITNESSES

1

Name:

Address:

2

Name:

Address:

Annexure - III

Proforma for self-certification by Supplier for minimum local content on their letter head for tender value less than Rs 10 Crore

"We _____ (Name of Manufacturer) undertake that we meet the mandatory minimum Local Content (LC) requirement i.e. _____ (to be filled as notified in the policy) for claiming Purchase Preference linked with Local Contents under the Govt. policy against tender no. _____."

Auditor's certification with respect to minimum local content on the letter head of Statutory Auditor for tender value above Rs.10 crore

"We _____ the statutory auditor of M/s _____ (name of the bidder) hereby certify that M/s _____ (name of manufacturer) meet the mandatory Local Content requirements of the Goods and/or Services i.e. _____ (to be filled as notified in the policy) quoted vide offer No. _____ dated _____ against BHEL's tender No. _____ by M/s _____ (Name of the bidder)."

Guidelines for Indian Agents of Foreign Suppliers

- 1.0 There shall be compulsory registration of agents for all Global (Open) Tender and Limited Tender. An agent who is not registered with BHEL shall apply for registration in the registration form in line with SEARP.
- 1.1 Registered agents will file an authenticated Photostat copy duly attested by a Notary Public/Original certificate of the Principal confirming the agency agreement and giving the status being enjoyed by the agent and the commission/ remuneration/ salary/ retainership being paid by the principal to the agent before the placement of order by BHEL.
- 1.2 Wherever the Indian representatives have communicated on behalf of their principals and the foreign parties have stated that they are not paying any commission to the Indian agents, and the Indian representative is working on the basis of salary or as retainer, a written declaration to this effect should be submitted by the party (i.e. Principal) before finalizing the order.
- 2.0 Disclosure of particulars of agents/ representatives in India, if any.**
- 2.1 Tenderers of Foreign nationality shall furnish the following details in their offers:
 - 2.1.1 The Bidder(s)/ Contractor(s) of foreign origin shall disclose the name and address of the agents/ representatives in India if any and the extent of authorization and authority given to commit the Principals. In case the agent/ representative be a foreign Company, it shall be confirmed whether it is existing Company and details of the same shall be furnished.
 - 2.1.2 The amount of commission/ remuneration included in the quoted price(s) for such agents/ representatives in India.
 - 2.1.3 Confirmation of the Tenderer that the commission/ remuneration, if any, payable to his agents/ representatives in India, may be paid by BHEL in Indian Rupees only.
- 2.2 Tenderers of Indian Nationality shall furnish the following details in their offers:
 - 2.2.1 The Bidder(s)/ Contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any, indicating their nationality as well as their status, i.e. whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal specifically authorizing the agent to make an offer in India in response to tender either directly or through the agents/ representatives.
 - 2.2.2 The amount of commission/ remuneration included in the price (s) quoted by the Tenderer for himself.
 - 2.2.3 Confirmation of the foreign principals of the Tenderer that the commission/ remuneration, if any, reserved for the Tenderer in the quoted price(s), may be paid by BHEL in India in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Stores and Spares in case of operation items.
- 2.3 In either case, in the event of contract materializing, the terms of payment will provide for payment of the commission/ remuneration, if any payable to the agents/ representatives in India in Indian Rupees on expiry of 90 days after the discharge of the obligations under the contract.
- 2.4 Failure to furnish correct and detailed information as called for in paragraph 2.0 above will render the concerned tender liable to rejection or in the event of a contract materializing, the same liable to termination by BHEL. Besides this there would be a penalty of banning business dealings with BHEL or damage or payment of a named sum.

Annexure-B

This format is applicable only to Indian Suppliers/ Agents supplying indigenous portion of Foreign Purchases.

* In all other cases, extant guidelines of SEARP, 2010 are to be followed.

SEARP (SRF) Clause No	Detail
	Name & address of the firm
1.0	Products/ Systems / Services being considered for
2.0	General Information
2.2	Name of Chief Executive
2.3	Details of authorized signatory
3.0	Ownership Information
3.1	Type of firm
3.2	Nature of Business • Attach authorization letter and agency agreement from Principal (from whom capital equipment is procured) • Attach copy of declaration from Foreign Principal for total guarantee/ warranty of indigenous supplies
3.3	Year of establishment
3.4	Year of commencement of business
4.0	Registration particulars
4.1	Permanent Account No.
4.2 / 4.3	Sales Tax / TIN no
4.6	Service tax no. (in case of E&C)
5.0	Organisational strength
6.0	Other particulars
6.1	If the company is already registered with other units
6.2	Directors/ Partners, if related to any BHEL Employee
6.9	If any Ex BHEL Personnel employed by the Company
6.12	Details of pending legal issues with BHEL
6.13	Bank Account information
9.0	Financial information
9.6	Sales/ Turnover details of last 3 years (or from the date of incorporation whichever is less)

Annexure -II Non-Disclosure Agreement

Confidentiality Agreement

This **CONFIDENTIALITY AGREEMENT** (“**Agreement**”, which expression shall unless it be repugnant to the subject or context thereof, include all schedules and amendments thereof made from time to time) is made on the date set out in Schedule) hereof (the “**Effective Date**”) between the person (s) named in Schedule hereof (the “**Receiving Party**”) of the One Part.

And

BHEL LIMITED, a company incorporated under the companies Act, 1956 and a banking company within the meaning of the banking Regulation Act. 1949 and having its registered office at / its corporate office at BHEL Towers, ----- and the Zonal branch/branch office at _____ (“**BHEL**”, which expression shall, unless it be repugnant to the subject or context thereof, include its successors and assigns) of the Other Parts.

The Receiving Party and BHEL are hereinafter collectively referred to as “Parties and individually as a “Party”,

PREAMBLE:

- (i) BHEL is considering a project involving ----- (Insert Company Name & brief description of Project), the Receiving Party (“ the Project”), as more particularly specified in detail in Schedule 2 of this agreement for which BHEL will divulge certain information to the Receiving Party which at present is confidential and not in the public domain.
- (ii) BHEL intends that the aforesaid information be kept confidential as between the Receiving Party and BHEL and the Receiving Party undertakes and declares that it shall not divulge, publish or reproduce the same before and person except in accordance with the terms of this Agreement.

THEREFORE, IN COSIDERATION OF BHEL making available such confidential information as aforesaid to the Receiving Party, the Parties agree as follow

(1) For the purpose of this Agreement, “AFFILIATE” of BHEL shall mean and include:

- (a) Any company which is holding company or subsidiary of BHEL, or
- (b) A person under the control of or under common control with BHEL, or
- (c) Any person, in more than 26% of the voting securities of which BHEL has a direct or beneficial interest.

For the purpose of this Affiliate and Agreement, “control” together with grammatical variations when used with respect to any Person, means the power to direct the management and policies of such Person, directly or indirectly, Whether through the owner ship of the vote carrying Securities, by contract or

otherwise however; and "Person" means the company, corporation, a partnership, trust or any other entity or organization or other body Whatsoever.

- (2) The Receiving Party hereby agrees that all the confidential, proprietary or trade secret information relating to BHEL including without limitation, information regarding the business operations, financial information, customer information and marketing strategies of BHEL and any notes, compilations, studies, interpretations, presentations, correspondence or other writing made available to the receiving Party by BHEL whether in physical or electronic form, whether after the effective date or prior to the execution of this agreement, and in specifically marked "**CONFIDENTIAL**", INCLUDING any verbal indication that has been documented in writing and marked as "**Confidential Information**". The receiving Party agrees that all the confidential Information shall be treated as absolute secret and the receiving Party shall not disclose to any person such information otherwise than in accordance with the terms of this Agreement. The Receiving Party will impose a similar duty of confidentiality on any person to whom the Receiving Party is permitted to transfer such information in accordance with the terms hereof.
- (3) The receiving Party shall not, without the prior written consent of BHEL, display or disclose all or any part of the confidential Information, in any manner or circumstances whatsoever, to any person or any third party and all Confidential Information contained herein shall be used by the receiving Party, directly or indirectly solely for the purpose of considering, evaluating and effecting the Project. The receiving Party shall not use the Confidential Information in any way detrimental to BHEL.
- (4) The receiving Party hereby represents that any employee or any official of the Receiving Party who will be given access to the Confidential Information on behalf of the Receiving Party has executed/ shall execute appropriate non-disclosure contracts with the receiving Party for adequate protection of the confidential information belonging to BHEL and/or its Affiliates against disclosure or exploitation. The receiving Party shall forthwith make available a copy of such contracts as and when required BHEL.
- (5) The receiving party shall maintain a record of entities/persons to which the Confidential Information has been disclosed. This record shall be promptly made available to BHEL upon request.
- (6) Without limiting the above, the Receiving Party further undertakes:
 - (i) Not to disclose that the confidential Information is or has been or will be made available or that evaluation of the Confidential Information is being or has been or will be made.
 - (ii) Not to make copies of, or reproduce or display in any form and by any process, all or any of the Confidential Information, except in the form of notes or memoranda, whether in physical or electronic form, made by Receiving Party employees/ officials during their evaluation of the Confidential Information;
 - (iii) To limit the access to the Confidential Information solely to those of its directors, officials or employees who have reason to require access only on a "**need to know**" basis;
 - (iv) To ensure that each of such director, official or employee referred to in Clause 6 (iii) hereinabove, to whom the Confidential Information is disclosed, observes strictly, the restrictions as to use and disclosure contained herein;
 - (v) To return all Confidential Information to BHEL forthwith and within a period of 10 days upon request by BHEL or upon the Receiving Party or BHEL

deciding not to proceed with the Project. Should BHEL permit the destruction of such Confidential Information, the Receiving Party shall destroy the Confidential Information, within the period as may be specified by BHEL and shall provide BHEL with written notice that such destruction has been carried out.

- (vi) To use the Confidential Information solely for the purpose of considering, evaluating and effecting the Project as specified in Schedule 2 hereto and to take all steps necessary to protect the secrecy of the Confidential Information from falling into the public domain or into the possession of unauthorized persons.
 - (vii) To keep confidential the fact of existence of discussions between the Receiving Party and BHEL concerning the Project, unless otherwise required by law and not make any private or public announcement or statement concerning or relating to the Project.
7. The restriction on use and disclosure set out above shall not apply to any Confidential Information which at the date of its disclosure to the Receiving Party is public knowledge or which subsequently becomes public knowledge other than by way of a breach of the terms of this Confidentiality Agreement; Or was available to the Receiving Party prior to its disclosure to the Receiving Party by BHEL under the terms of this Agreement; Party by BHEL under the terms of the Agreement: or is required to be disclosed by way of a legal process regulation or Government order, decree, regulation or rule; Provided herein after that for the purposes of the above section, such circumstances as defined above shall be tangibly proved to the satisfaction of BHEL in order to qualify as an exception under this category.
8. The Receiving Party agrees that all Confidential Information shall remain the property of BHEL or its Affiliates and that BHEL may use such confidential information for many purposes without any obligation to the Receiving Party. Nothing contain herein shall be construed as granting or implying any transfer to rights (including license rights) to the Receiving Party in the Confidential Information.
9. The Receiving Party agrees and understands that by the furnishing or making available of the confidential information, neither BHEL nor any of its agents are making any representation or warranty express or implied as to the accuracy or completeness of the confidential information. BHEL shall not be liable to the Receiving Party or any other person to use of the confidential information.
10. The Receiving Party shall immediately notify BHEL of any known or suspected breaches of this Agreement and shall give BHEL Full Corporation in any search or security.
11. If either party decides that it does not wish to proceed with the Project, such party will promptly advice the other party shall forthwith return all confidential information to BHEL and shall not retain any copies of the same, in any form whatever. The receiving Party shall further certify compliance with this clause to BHEL forthwith in writing.
12. The Receiving Party hereby agrees to forth indemnify and hold harmless BHEL and its Affiliates from and against any claim and loss or damages, liability (including the legal fees) arising out of or in connection with any unauthorized or any other breach of

the terms and conditioning contained in this Agreement. This clause shall survive the termination or expiration of this Agreement.

13. The Receiving Party acknowledges that any breach of the terms and conditions of this agreement may cause BHEL irreparable damages for which recovery of money damages would be inadequate. Therefore, the Receiving Party agrees that BHEL or its nominee (in BHEL's sole discretion) shall be entitled, in addition to any other remedies available to it, to seek injunctive relief and/or from its employees/officials, or otherwise to protect its rights, under this Agreement.
14. in the event the Receiving Party is required to disclose Confidential Information upon an action, subpoena or order of a court of competent jurisdiction or of any requirement of legal process regulation or governmental order, decree, regulation or rule, the Receiving Party will immediately notify BHEL of its having received a request to so disclose (alongwith the terms and circumstances thereof), and consult with BHEL on action or steps to be taken in response to such request and shall finally execute any such request in accordance with the satisfaction of BHEL.
15. This Agreement shall be binding upon and shall inure for the benefit of the heirs (if applicable), successors and assigns of the Parties hereto.
16. This Agreement represents the entirety of the agreement of the Parties relating to the disclosure of the Confidential Information and shall not be waived, amended or assigned by either Party except by prior written consent of the other Party. No failure or delay by any party in exercising any right, power or privilege hereunder shall operate as a waiver thereof nor shall any single or partial exercise of any right, power or privilege. The rights and remedies herein provided shall be cumulative and not exclusive of any rights or remedies provided by law.
17. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which taken together shall constitute one and the same agreement.
18. If any provision of this Agreement is determined to be unenforceable for any reason, then the remaining provisions hereof shall remain unaffected and in full force and effect.
19. This Agreement, the relationship between the Parties and all rights and obligations arising from any act done or required to be done under this Agreement and the terms herein shall be governed by and construed in accordance with the laws in India. The courts at Mumbai shall have the jurisdiction to try any matters arising out of or in connection herewith.
20. Nothing in this Agreement shall obligate either Party to consummate any transaction discussed as a result hereof.
21. This Agreement shall become binding on the Parties from the Effective Date and shall be in force such tenure as specified in Schedule I and shall remain in force for the entire term of the Project Notwithstanding anything contained herein, the obligations of Receiving Party Under this Agreement to retain secrecy of the Confidential Information shall however survive and be continuing until the Confidential information disclosed by BHEL is no longer confidential and is in public domain without any breach of the terms and conditions hereof by the Receiving Party.
22. Unless otherwise provided herein, all notices or other communications under or in connection with this Agreement shall be given in writing and may be sent by personal delivery or post or courier or facsimile at the address as specified in Schedule I hereto. Any such notice or other communication will be deemed to be effective if sent by personal delivery, when delivered, if sent by post, 4 (four) days after being deposited in the post and if sent by courier, one day after being deposited with the courier, and if sent by facsimile, when sent (on receipt of a confirmation to the correct facsimile number).

23. For the avoidance of the doubt, the owner hereby reserves the right at all times to file for / oblige for any applicable copyright / patent and / or any other licenses as applicable and to this effect the Receiving Party hereby undertake to ensure that there is no infringement of the owner's Intellectual Property Interest (IPR) at any time.

SCHEDULE I

1. **Effective Date:** _____ day of _____ (Month).20____ (year)

2. **The Receiving Party:**

_____, a company registered under the provisions of the Companies Act, 1956, and having its Registered Office at _____.

The expression "Receiving Party" shall, unless it be repugnant to the subject or context thereof, include its successors and permitted assigns.

3. **Tenure:**---- Years

4. **Address for Notices:**

If to BHEL:

BHEL Limited,

BHEL Towers,

Siri Fort

New Delhi 110049

Facsimile Number:

Tel No.:

Attn:

If to the Receiving party:

[Address]

Facsimile Number:

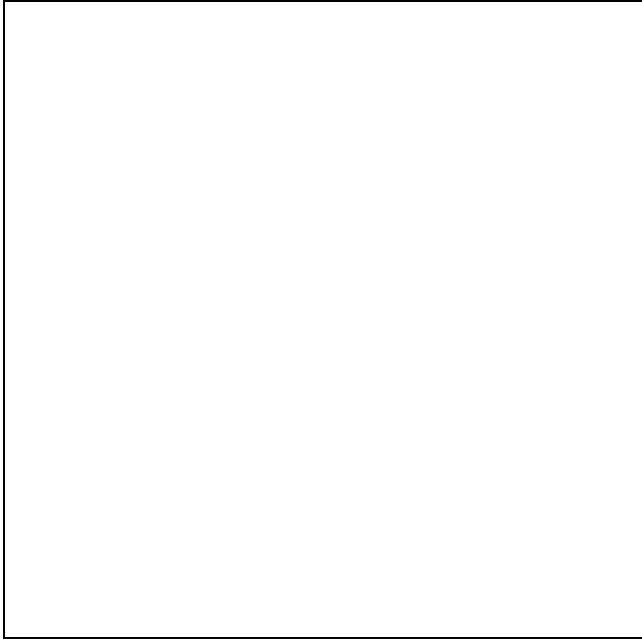
Tel No.:

Attn:

SCHEDULE 2

PROJECT

IN WITNESS WHEREOF, the Parties have caused the Agreement to be executed in the manner hereinafter appearing.



In the presence of:

1)

2)

AND

Signed and Delivered by BHEL
LIMITED, the within named BHEL by the
Hand of _____, its
Authorized official in the presence of:

1) _____;

2) _____.

(On Company Letter Head)

No Business Connection Certificate

Date

To

Bharat Heavy Electricals Limited
Ramachandrapuram, Hyderabad
India - 502032

Sir,

Sub: No Business Connection declaration for FY 2019-20

This is to certify that (Name of the supplier) is a company incorporated in(country) and does not have any business connection in India as per the provision of Section 9 of the Income Tax Act 1961.

We hereby certify that we will notify BHEL in case of any change in the status as certified above.

For

Authorised Signatory

(On Company Letter Head)

FORM NO. 10F

[See sub-rule (1) of rule 21AB]

Information to be provided under sub-section (5) of section 90 or sub-section (5) of section 90A of the Income-tax Act, 1961

I..... son/daughter of Mr in the capacity of.....
(designation) do provide the following information, relevant to the previous year
2016-17 in case of for the purposes of sub-section (5) of section 90/section
90A:-

Sl.No.	Nature of information	Details
(i)	Status (individual; company, firm etc.) of the assessee	Company
(ii)	Permanent Account Number (PAN) of the assessee if allotted	
(iii)	Nationality (in the case of an individual) or Country or specified territory of incorporation or registration (in the case of others)	
(iv)	Assessee's tax identification number in the country or specified territory of residence and if there is no such number, then, a unique number on the basis of which the person is identified by the Government of the country or the specified territory of which the assessee claims to be a resident	

(v)	Period for which the residential status as mentioned in the certificate referred to in sub-section (4) of section 90 or sub-section (4) of section 90A is applicable	2018-19
(vi)	Address of the assessee in the country or territory outside India during the period for which the certificate, mentioned in (v) above, is applicable	

I have obtained a certificate to in sub-section (4) of section 90 of sub-section (4) of section 90A from the Government of..... (name of country or specified territory outside India)

Signature:.....

Name:.....

Address:.....

Permanent Account Number:.....

Verification

I..... do hereby declare that to the best of my knowledge and belief what is stated above is correct complete and is truly stated. Verified today the..... day of.....

Signature of the person providing the information

Place:.....

Self-certified and stamped copy of Tax Residence Certificate may be enclosed.

(On Company Letter Head)

No Permanent Establishment Certificate

Date

To

Bharat Heavy Electricals Limited
Ramachandrapuram, Hyderabad
India - 502032

Sir,

Sub: No Permanent Establishment declaration for FY 2018-19

This is to certify that (Name of the supplier) is a company incorporated in(country) and does not have any Permanent Establishment as defined in Article 5 of the India and(country) DTAA.

We hereby certify that we will notify BHEL in case of any change in the status as certified above.

For

Authorised Signatory

Certificate by Chartered Accountant on letter head

This is to Certify that M/s.....,
(hereinafter referred to as 'company') having its registered office at
Is registered under MSMED Act 2006, (Entrepreneur Memorandum No (Part-II).....
Dtd:....., Category:.....(Micro/Small). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on
date..... as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722€ dated October 5, 2006:
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
Rs.....Lacs

The above investment of Rs.....Lacs is within permissible limit of Rs.....Lacs forMicro / Small (Strike off which is not applicable) Category under MSMED Act 2006.

Date:

(Signature)

Name –

Membership number-

Seal of Chartered Accountant

PRICING SHEET FOR THE ENQUIRY NO E5A1S85415

Package No	Material code	Material Description	Qty	Drawing No	Inspection Requirement	Price @ 1 No
Package 1 Pan ki LPH	HE9718814027	DISHED END TOR(ID1500X13(MIN))	2	41622600340 Rev 00	BHEL TPI	
	HE9718814035	DISHED END TOR(ID1400X13(MIN))	1			
	HE9718814043	DISHED END TOR(ID1250X30(MIN))	3			
Package 2 Panki Deaerator	HE9711834626	2:1 ELLIP.DISH END ID4000X28(MIN)SF=75	2	41631000666 Rev 00 &	BHEL TPI & IBR	
	HE9711834634	SPH.DISH OD600/372X28(MIN.) MATCH OD4056	1			
	HE9711834642	SPH.DISH OD950/525X28(MIN.) MATCH OD4056	2	41631000668 Rev 00	BHEL TPI & IBR	
	HE9711834650	2:1 ELLIP.DISH END ID3000X32(MIN)SF=75	2			
	HE9711834669	SPH.DISH OD950/525X32(MIN.) MATCH OD3064	1	41631000665 Rev 00 &	BHEL TPI & IBR	
	HE9711834677	SPH.DISH OD500/340X32(MIN.) MATCH OD3064	1			
	HE9711834944	SPH.DSH OD1700/981X32(MIN) MATCH OD3064	1	41631000667 Rev 00	BHEL TPI & IBR	
	HE9711503131	TEST COUPON	1			
Package 3 Panki HPH	HE9711503140	TEST COUPON	1	31750102539 Rev 00	BHEL TPI & IBR	
	HE9711503158	TEST COUPON	1			
	HE9711833034	DISHED END 2:1 ELLIP ID 2050XTHK86MIN	1			
	HE9711833042	DISHED END 2:1 ELLIP ID 2200XTHK67MIN	1			
	HE9711833050	DISHED END 2:1 ELLIP ID 2200XTHK31MIN	1			
	HE9711824388	DISHED END 2:1 ELLIP ID 1300XTHK43 MIN	1			
Package 4 Panki DSH	HE9711504812	TEST COUPON FOR DISHED END	1	41750501350 Rev 00	BHEL TPI & IBR	
	HE9711813017	DISHED END 2:1 ELLIP ID1800X28THK(MIN)	6			
Package 5 Patartu HPH	HE9711813025	DISHED END 2:1 ELLIP ID1800X57THK(MIN)	6	31750102505 Rev 00	BHEL TPI & IBR	
	HE9711813033	DISHED END 2:1 ELLIP ID1600X60THK(MIN)	6			
	HE9711824060	AS DISHED END(ID 1100 X THK 36 MIN)	6			
Package 6 Patartu DSH	HE9711824094	2:1 ELLIP.DISH END ID 3000X28(MIN)SF=75	6	41631000682 Rev 00 &	BHEL TPI & IBR	
	HE9711824086	SPH.DISH OD1700/981X28(MIN)MATCH OD3056	3			
	HE9711824108	SPH.DISH OD950/626X28(MIN)MATCH OD3056	3			
	HE9711824116	SPH.DISH OD500/289X28(MIN)MATCH OD3056	6			
	HE9711824132	2:1 ELLIP.DISH END ID4000X28(MIN) SF=75	6			
	HE9711824124	SPH.DISH OD950/626X28(MIN)MATCH OD4056	6			
Package 7 Patartu Deaerator	HE9711824140	SPH.DISH OD700/422X28(MIN)MATCH OD4056	3	41631000685 Rev 00 &	BHEL TPI & IBR	
	HE9711814676	DISH 2:1 ELLIP ID1650X13THK(MIN)LPH	6			
	HE9711814684	DISH 2:1 ELLIP ID1850X13THK(MIN)LPH	6			
	HE9711814692	DISH 2:1 ELLIP ID1400X30THK(MIN)LPH	6			
	HE9711814706	DISH 2:1 ELLIP ID1570X34THK(MIN)LPH	6			
Package 8 Patartu LPH				41622200421 Rev 00	BHEL TPI	

GUIDELINES FOR REVERSE AUCTION-2016 *enabling*

Execution, Consolidation, Simplification (ECS)

(AA:SSP:RA:03)

Issued on 26.09.2016

**Sourcing Strategy & Policy
Corporate Operations Management
BHEL, New Delhi**

Annexure – I

Business Rules for Reverse Auction

This has reference to tender no {-----}. BHEL shall finalize the Rates for the supply of {item name} through Reverse Auction mode. BHEL has made arrangement with Service Provider who shall be BHEL's authorized service provider for the same. Bidders should go through the instructions given below and submit acceptance of the same.

The technical & commercial terms are as per (a) BHEL Tender Enq. No. {-----}, (b) Bidders' technical & commercial bid (in case of two-part bid) and (c) subsequent correspondences between BHEL and the bidders, if any.

1. Procedure of Reverse Auctioning

- i. **Online Sealed Bid:** This duration of online sealed bid will be {-----} minutes. All bidders to submit their online sealed bids during this period.
- ii. **Online Reverse Auction:** The 'opening price' i.e. start price for RA and 'bid decrement' will be decided by BHEL.
- iii. If BHEL decides the lowest online sealed bid as the starting price, then the lowest bidder in online sealed bid shall be shown as current L1 automatically by the system and no acceptance of that price is required. System shall have the provision to indicate this bid as current L1.
- iv. Bidders by offering a minimum bid decrement or the multiples thereof can displace a standing lowest bid and become "L1" and this continues as an iterative process.
- v. After the completion of the online reverse auction, the Closing Price (CP) shall be available for further processing.

2. Schedule for Reverse Auction: The Reverse Auction is tentatively scheduled on {-----} and the duration of online sealed bid will be {-----} minutes. All bidders to submit their online sealed bids during this period.

- **Online Sealed Bid:-**
 - *Start Time:* {-----}
 - *Close Time:* {-----}
- **Online Reverse Auction:-**
 - *Start Time:* {-----}
 - *Close Time:* {-----}

3. Auction extension time: If a bidder places a bid in the last {-----} minutes of closing of the Reverse Auction and if that bid gets accepted, then the auction's duration shall get extended automatically for another {-----} minutes, for the entire auction (i.e. for all the items in the auction), from the time that bid comes in. Please note that the auto-extension will take place

only if a bid comes in those last {-----} minutes and if that bid gets accepted as the lowest bid. If the bid does not get accepted as the lowest bid, the auto-extension will not take place even if that bid might have come in the last {-----} minutes. In case, there is no bid in the last {-----} minutes of closing of Reverse Auction, the auction shall get closed automatically without any extension. However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the auto-extension period to avoid complications related with internet connectivity, network problems, system crash down, power failure, etc.

The above process will continue till completion of Reverse Auction.

Complaints/ Grievances, if any, regarding denial of service or any related issue should be given in writing thru e-mail/ fax to Service Provider with a copy to BHEL within 15 minutes prior to initial closing time of Online Reverse Auction.

4. **Bid price:** The Bidder has to quote the **FOR BHEL Price (or) CIP Mumbai**, Price inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, ED + cess, CST against C-form, Freight (bidder to provide original Freight paid receipt), insurance charges, etc. including loading (if indicated by BHEL due to deviations in technical/ commercial terms) for the Items specified. Details are as shown in Excel Sheet for calculation of total cost to BHEL (To be specified by Unit as per NIT conditions).

5. **Bidding currency and unit of measurement:** Bidding will be conducted in *Indian Rupees per Unit* of the material as per the specifications.

In case of foreign currency bids, exchange rate (TT selling rate of State Bank of India) as on scheduled date of tender opening (Part-I bid) shall be considered for conversion in Indian Rupees. If the relevant day happens to be a Bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken.

6. **Validity of bids:** Price shall be valid for {-----} from the date of reverse auction. These shall not be subjected to any change whatsoever.
7. **Lowest bid of a bidder:** In case the bidder submits more than one bid, the lowest bid at the end of Online Reverse Auction will be considered as the bidder's final offer to execute the work.
8. Bidders shall be assigned a **Unique User Name & Password** by Service Provider. Bidders are advised to change the Password and edit the information in the Registration Page after the receipt of initial Password from Service Provider to ensure confidentiality. All bids made from the Login ID given to the bidders will be deemed to have been made by the bidders / bidders' company.

9. **Post auction procedure:** BHEL will proceed with the Lowest Bid in the Reverse Auction for further processing.
10. Any commercial/ technical loading shall be intimated to bidders prior to RA. The excel sheet provided in this regard shall cover all these aspects. Commercial/ technical loading if any, shall be added by the respective bidder in its price during online sealed bid & Online Reverse Auction. Modalities of loading & de-loading shall be separately intimated to the bidders. The responsibility for correctness of total cost to BHEL shall lie with the bidders.
11. Computerized reverse auction shall be conducted by BHEL (through Service Provider), on pre-specified date, while the bidders shall be quoting from their own offices/ place of their choice. Internet connectivity shall have to be ensured by bidders themselves.

During the RA process if a bidder is not able to bid and requests for extension of time by FAX/ email/ phone then time extension of additional 15 minutes will be given by the service provider provided such requests come before 5 minutes of auction closing time. However, only one such request per bidder can be entertained.

Despite this extension if bidder fails to upload his prices due to extreme case of failure of Internet connectivity, (due to any reason whatsoever may be) it is the bidders' responsibility/ decision to send fax communication immediately to Service Provider furnishing the price the bidder wants to bid online with a request to the service provider to upload the faxed price online so that the service provider will upload that price online on behalf of the Bidder. It shall be noted clearly that the concerned bidder communicating this price to service provider has to solely ensure that the fax message is received by the service provider in a readable/ legible form and also the Bidder should simultaneously check up with service provider about the clear receipt of the price faxed. It shall also be clearly understood that the bidder shall be at liberty to send such fax communications of prices to be uploaded by the service provider only within the closure of Bid time and under no circumstance it shall be allowed beyond the closure of Bid time /reverse auction. It shall also be noted that the service provider should be given a reasonable required time by the bidders, to upload such prices online and if such required time is not available at the disposal of the Service provider at the time of receipt of the fax message from the bidders, the service provider will not be uploading the prices and either BHEL or the service provider are not responsible for this unforeseen circumstances. In order to ward-off such contingent situation bidders are requested to make all the necessary arrangements/ alternatives whatever required so that they are able to circumvent such situation and still be able to participate in the reverse auction successfully. Failure of power or loss of connectivity at the premises of bidders during the Reverse auction cannot be the cause for not participating in the reverse auction. On account of this, the time for the auction cannot be extended and neither BHEL nor Service Provider is responsible for such eventualities.

12. Proxy bids: Proxy bidding feature is a pro-bidder feature to safeguard the bidder's interest of any internet failure or to avoid last minute rush. The proxy feature allows bidders to place an automated bid in the system directly in an auction and bid without having to enter a new amount each time a competing bidder submits a new offer. The bid amount that a bidder enters is the minimum that the bidder is willing to offer. Here the software bids on behalf of the bidder. This obviates the need for the bidder participating in the bidding process until the proxy bid amount is decrementally reached by other bidders. When proxy bid amount is reached, the bidder (who has submitted the proxy bid) has an option to start participating in the bidding process.

The proxy amount is the minimum amount that the bidder is willing to offer. During the course of bidding, the bidder cannot delete or change the amount of a proxy bid.

Bids are submitted in decrements (decreasing bid amounts). The application automates proxy bidding by processing proxy bids automatically, according to the decrement that the auction originator originally established when creating the auction, submitting offers to the next bid decrement each time a competing bidder bids, regardless of the fact whether the competing bids are submitted as proxy or standard bids. However, it may please be noted that if a manual bid and proxy bid are submitted at the same instant manual bid will be recognized as the L1 at that instant.

In case of more than one proxy bid, the system shall bid till it crosses the threshold value of 'each lowest proxy bid' and thereafter allow the competition to decide the final L1 price.

Proxy bids are fed into the system directly by the respective bidders. As such this information is privy only to the respective bidder(s).

13. Bidders are advised to get fully trained and clear all their doubts such as refreshing of screen, quantity being auctioned, tender value being auctioned etc from Service Provider.
14. Service Provider shall arrange to demonstrate/ train the bidder or bidder's nominated person(s), without any cost to bidders. Service Provider shall also explain the bidders, all the business rules related to the Reverse Auction. Bidders are required to submit their acceptance to the terms/ conditions/ modalities before participating in the Reverse Auction in the process compliance form as enclosed. Without this, the bidder will not be eligible to participate in the event.
15. Successful bidder shall be required to submit the final prices (L1) in prescribed format (Annexure-VI) for price breakup including that of line items, if required, quoted during the Online Reverse Auction, duly signed and stamped as token of acceptance without any new condition (other than those already agreed to before start of auction), after the completion of auction to Service Provider besides BHEL within two working days of Auction without fail.

16. Any variation between the final bid value and that in the confirmatory signed price breakup document will be considered as tampering the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings (as available on www.bhel.com).
17. Bidders' bid will be taken as an offer to execute the work/ supplies of the item as per enquiry no. {...} dt. {...}. Bids once made by the bidder, cannot be cancelled/ withdrawn and bidder shall be bound to execute the work as mentioned above at bidder's final bid price. Should bidder back out and not execute the contract as per the rates quoted, BHEL shall take action as per extant guidelines for suspension of business dealings (as available on www.bhel.com).
18. Bidders shall be able to view the following on their screen along with the necessary fields during Online Reverse Auction:
 - a) Leading (Running Lowest) Bid in the Auction (only total price of package).
 - b) Bid Placed by the bidder.
 - c) Start Price.
 - d) Decrement value.
 - e) Rank of their own bid during bidding as well as at the close of auction.
19. BHEL's decision on award of contract shall be final and binding on all the Bidders.
20. BHEL reserves the right to extend, reschedule or cancel the Reverse Auction process at any time, before ordering, without assigning any reason, with intimation to bidders.
21. BHEL shall not have any liability to bidders for any interruption or delay in access to the site irrespective of the cause. In such cases, the decision of BHEL shall be binding on the bidders.
22. Other terms and conditions shall be as per bidder's techno-commercial offers and other correspondences, if any, till date.
23. If there is any clash between this business document and the FAQ available, if any, in the website of Service Provider the terms & conditions given in this business document will supercede the information contained in the FAQs. Any changes made by BHEL/ service provider (due to unforeseen contingencies) after the first posting shall be deemed to have been accepted if the bidder continues to access the portal after that time.
24. Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines for suspension of business dealings (as available on www.bhel.com), shall be initiated by BHEL.

Annexure-II

Mandate to Service Provider

Ref : **Enquiry No.**

Date :

To,

Service Provider

Sub: Providing of Services for Reverse Auction.

Ref: No **Enquiry No. & Date**

Dear Sirs,

Please conduct Reverse Auction as per the following details:

- **Scope:** Auction event management with training of BHEL and its bidders.
- Ensure process compliance form from all the bidders before start of RA event. In case of postponement of event to some other date, ensure acknowledgement from each bidder.
- Price: Rs. {.....}/- . No other duties, Taxes, levies etc. except service tax @ {.....}% shall be payable for conducting reverse auction. This price is firm.
- Payment Terms: 100% payment after successful completion of Auction.
- Completion of Auction: The auction shall be deemed to have been successfully completed on receipt and acceptance of final report including hard copy of the final bid with price break up including that of line items, if any, duly signed by the successful bidder who has participated in the reverse auction. The bill shall be submitted along with the completion report to the undersigned.
- Business Rules of the Reverse Auction are as per Annexure-I
- The list of bidders with their contact details is given in Annexure-IV. and the details of the item (s) to be Reverse Auctioned are as per Annexure-V.
- Please acknowledge receipt of this letter order and also confirm that final report (duly signed and stamped by Service Provider) including hard copy of the final bid with breakup of prices including that of line items duly signed by the successful bidder (duly endorsed by Service Provider) shall be submitted within four working days of conclusion of auction.

Yours sincerely,
(for and on behalf of BHEL)

Note:

- i) The case of rescheduled auction event will be considered separate event for the purpose of payment.
- ii) If the event has been conducted as per mandate, you shall be paid irrespective of RA outcome.

Buyer Name	BHARAT HEAVY ELECTRICALS LIMITED, RAMACHANDRA PURAM PURCHASE (HE&F) HYDERABAD 502 032
	<u>Contact Person Details:</u>
Auction to be conducted by	
Date of Auction	
Documents Attached: (To be sent to the bidders)	1) Business rules for Reverse Auction (Annexure-I) 2) Process Compliance Form (Annexure-III) 3) Details of item (s) to be Reverse Auctioned (Annexure-V) 4) Post RA Price confirmation by bidder (Annexure-VI)

Annexure – III

Process Compliance Form

(The bidders are required to print this on their company's letterhead and sign, stamp before RA)

To

Service Provider

Sub: Agreement to the Process related Terms and Conditions

Dear Sir,

This has reference to the Terms & Conditions for the Reverse Auction mentioned in the RFQ document for {Items} against BHEL enquiry no. {-----}

This letter is to confirm that:

- 1) The undersigned is authorized official/ representative of the company to participate in RA and to sign the related documents.
- 2) We have studied the Reverse Auction guidelines (as available on www.bhel.com), and the Business rules governing the Reverse Auction as mentioned in your letter and confirm our agreement to them.
- 3) We also confirm that we have taken the training on the auction tool and have understood the functionality of the same thoroughly.
- 4) We also confirm that, in case we become L1 bidder, we will FAX/ email/ the price confirmation & break up of our quoted price (including that of line items) as per Annexure-VI within two working days (of BHEL) after completion of RA event, besides sending the same by registered post/ courier both to M/s. BHEL and Service Provider
- 5) We also confirm that in case we become L1 bidder, the envelope sealed price bid submitted by us shall be opened by BHEL and we agree to accept the lower of the two bids (RA closing price & envelope sealed price) for placement of order and we have understood that in case online sealed bid placed by us is found higher than envelope sealed price bid submitted by us, then BHEL may take action as stipulated in NIT.

We, hereby confirm that we will honor the Bids placed by us during the auction process.

With regards

Signature with company seal

Name –

Company / Organization

Designation within Company / Organization

Address of Company / Organization

- Sign this document and FAX/ email it to Service Provider at {.....} prior to start of the Event.

Annexure – IV

List of bidders and their address/ contact person details

S. No.	Address	Contact Person
1		
2		
3		
4		

Annexure – V**Details of item (s) to be Reverse Auctioned**

Details of items including quantity, specification, Enquiry no. {-----}

The offers of all the bidders are technically & commercially frozen as submitted by the bidders and clarified in subsequent correspondence, if any, with the bidders.

Annexure – VI

RA price confirmation and breakup
(To be submitted by L1 bidder after completion of RA)

To

Service Provider

CC: **BHARAT HEAVY ELECTRICALS LIMITED**
PURCHASE (HE&F)
HYDERABAD 502 032

Sub: Final price quoted during Reverse Auction and price breakup

Dear Sir,

We confirm that we have quoted.

Rs. { _____ in value & in words _____ } for item(s) covered under tender enquiry No. {--
----}.

Total price of the items covered under above cited enquiries is inclusive of {*Packing & forwarding, E.D., C.S.T., freight and insurance charges upto {.....} District,{.....} State and Type Test Charges etc., (exclusive of service tax), other as per NIT*}

as our final landed prices as quoted during the Reverse Auction conducted today {date} which will be valid for a period of {-----} days.

The price break-up including that of line items is as given below.

Total

-

Rs.

Thanking you and looking forward to the valuable order from BHEL.

Yours sincerely,

For _____

Name:

Company:

Date:

Seal:

	CORPORATE QUALITY ASSURANCE SUB-VENDOR QUESTIONNAIRE
---	---

i.	Item/Scope of Sub-contracting			
ii.	Address of the registered office	Details of Contact Person (Name, Designation, Mobile, Email)		
iii.	Name and Address of the proposed Sub-vendor's works where item is being manufactured	Details of Contact Person: (Name, Designation, Mobile, Email)		
iv.	Annual Production Capacity for proposed item/scope of sub-contracting			
v.	Annual production for last 3 years for proposed item/scope of sub-contracting			
vi.	Details of proposed works			
1.	Year of establishment of present works			
2.	Year of commencement of manufacturing at above works			
3.	Details of change in Works address in past (if any)			
4.	Total Area			
4.	Covered Area			
5.	Factory Registration Certificate	Details attached at Annexure – F2.1		
6.	Design/ Research & development set-up (No. of manpower, their qualification, machines & tools employed etc.)	Applicable / Not applicable if manufacturing is as per Main Contractor/purchaser design) Details attached at Annexure – F2.2 (if applicable)		
7.	Overall organization Chart with Manpower Details (Design/Manufacturing/Quality etc)	Details attached at Annexure – F2.3		
8.	After sales service set up in India, in case of foreign sub-vendor (Location, Contact Person, Contact details etc.)	Applicable / Not applicable Details attached at Annexure – F2.4		
9.	Manufacturing process execution plan with flow chart indicating various stages of manufacturing from raw material to finished product including outsourced process, if any	Details attached at Annexure – F2.5		



CORPORATE QUALITY ASSURANCE SUB-VENDOR QUESTIONNAIRE

10.	Quality Control exercised during receipt of raw material/BOI, in-process , Final Testing, packing	Details attached at Annexure – F2.6												
11.	Manufacturing facilities (List of machines, special process facilities, material handling etc.)	Details attached at Annexure – F2.7												
12.	Testing facilities (List of testing equipment)	Details attached at Annexure – F2.8												
13.	If manufacturing process involves fabrication then- List of qualified Welders List of qualified NDT personnel with area of specialization	Applicable / Not applicable Details attached at Annexure – F2.9 (if applicable)												
14.	List of out-sourced manufacturing processes with Sub-Vendors' names & addresses	Applicable / Not applicable Details attached at Annexure. –F2.10 (if applicable)												
15.	Supply reference list including recent supplies	Details attached at Annexure – F2.11 (as per format given below)												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">Project/ package</th> <th style="width: 10%;">Customer Name</th> <th style="width: 30%;">Supplied Item (Type/Rating/Model /Capacity/Size etc)</th> <th style="width: 15%;">PO ref no/date</th> <th style="width: 20%;">Supplied Quantity</th> <th style="width: 15%;">Date of Supply</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			Project/ package	Customer Name	Supplied Item (Type/Rating/Model /Capacity/Size etc)	PO ref no/date	Supplied Quantity	Date of Supply						
Project/ package	Customer Name	Supplied Item (Type/Rating/Model /Capacity/Size etc)	PO ref no/date	Supplied Quantity	Date of Supply									
16.	Product satisfactory performance feedback letter/certificates/End User Feedback	Attached at annexure - F2.12												
17.	Summary of Type Test Report (Type Test Details, Report No, Agency, Date of testing) for the proposed product (similar or higher rating) Note:- Reports need not to be submitted	Applicable / Not applicable Details attached at Annexure – F2.13 (if applicable)												
18.	Statutory / mandatory certification for the proposed product	Applicable / Not applicable Details attached at Annexure – F2.14 (if applicable)												
19.	Copy of ISO 9001 certificate (if available)	Attached at Annexure – F2.15												
20.	Product technical catalogues for proposed item (if available)	Details attached at Annexure – F2.16												
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Company's Seal/Stamp:-