

BHARAT HEAVY ELECTRICALS LIMITED,
(A Government of India Enterprises)
Heavy Plates & Vessels Plant
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NOTICE INVITING TENDER(NIT)

**Category of Tender: TWO BID
(PRICED + UN - PRICED)**

SUB: Electricals items for 50mm Four Roll Bending Machine

Our Ref: **MM/2/10/3869/CAP/W-146/5146**

DATE: 22.11.2014

Sealed quotations in duplicate are invited from suppliers on **or before 20.12.2014 SUPERSCRIBING OUR REFERENCE AND CATEGORY OF TENDER** on the cover, for supply of the under mentioned stores within the above due date, otherwise send **REGRET LETTER**, strictly subject to the Terms & Conditions attached herewith.
LATE TENDERS ARE NOT ACCEPTABLE.

ITEM No.	DESCRIPTION / SPECN. / SIZE	QTY
1.	Electricals items for 50mm Four Roll Bending Machine	Lot
	Encl: 1. Annexure – 1 4 page 2. Annexure - 2 3 pages 3. General Terms/ commercial terms and conditions (INCLUDING CHECK LIST) 9 Pages	

For **BHARAT HEAVY ELECTRICALS LIMITED,**

MANAGER (MP-Misc. & CPS)

List of items required for retrofit and reconditioning of 50 mm bending roll:

Sl.No	Item description	Qty (No)	Make
1	Siemens power contactor 3TF3101-0A(with auxiliary contacts 3 NO+1 NC),220V coil	44	Siemens
2	Siemens power contactor 3TF3110-0A(with auxiliary contacts 3 NO+1 NC),24V coil	30	Siemens
3	Spare 440V coil for 3TF31 contactor	20	Siemens
4	Spare 24V coil for 3TF31 contactor	50	Siemens
5	Siemens power contactor 3TF32- 0A(with auxiliary. contacts 3 NO+1 NC),220V coil	10	Siemens
6	Spare 415V coil for 3TF32 contactor	10	Siemens
7	Siemens power contactor 3TX4001-4A(with auxiliary NC-4A)	100	Siemens
8	Siemens power contactor 3TX4010-4A(with auxiliary NO-4A)	50	Siemens
9	Independent mounting thermal overload relay (85-135A) with auxiliary NO+NC	1	Siemens/ABB/ Telemecanique
10	Independent mounting thermal overload relay (40-60A) with auxiliary NO+NC	5	Siemens/ABB/ Telemecanique
11	Independent mounting thermal overload relay (10-16A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
12	Independent mounting thermal overload relay (1-1.5A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
13	Independent mounting thermal overload relay (16-25A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
14	Independent mounting thermal overload relay (20-32A) with auxiliary NO+NC	20	Siemens/ABB/ Telemecanique
15	Independent mounting thermal overload relay (2-3.2A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
16	Independent mounting thermal overload relay (8-12.5A) with auxiliary NO+NC	20	Siemens/ABB/ Telemecanique
17	Independent mounting thermal overload relay (0.8-1.25A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
18	Independent mounting thermal overload relay (7-10A) with auxiliary NO+NC	15	Siemens/ABB/ Telemecanique
19	Independent mounting thermal overload relay (3.5-5A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
20	Independent mounting thermal overload relay (2.2-3.2A) with auxiliary NO+NC	25	Siemens/ABB/ Telemecanique
21	Independent mounting thermal overload relay (0.35 – 0.5A) with auxiliary NO+NC	30	Siemens/ABB/ Telemecanique
22	Independent mounting thermal overload relay (0.7-1A) with auxiliary NO+NC	20	Siemens/ABB/ Telemecanique
23	Independent mounting thermal overload relay (1.8-2.5A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
24	Independent mounting thermal overload relay (2.8-4A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
25	Independent mounting thermal overload relay (1.4-2A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
26	Independent mounting thermal overload relay (0.55-0.8A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
27	Independent mounting thermal overload relay (0.7-1A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
28	Independent mounting thermal overload relay (3.5-5A) with auxiliary NO+NC	30	Siemens/ABB/ Telemecanique
29	Independent mounting thermal overload relay (2.8-4A) with auxiliary NO+NC	15	Siemens/ABB/ Telemecanique
30	Independent mounting thermal overload relay (5.5-8A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
31	Independent mounting thermal overload relay (14-20A) with auxiliary NO+NC	15	Siemens/ABB/ Telemecanique
32	Independent mounting thermal overload relay (4.5-6.3A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
33	Independent mounting thermal overload relay (36-45A) with auxiliary NO+NC	10	Siemens/ABB/ Telemecanique
34	Siemens power contactor 3TF53 22-0A(with auxiliary contacts 2 NO+2 NC),220V coil	10	Siemens
35	Siemens power contactor 3TF50 22-0A(with auxiliary contacts 2 NO+2 NC),220V coil	10	Siemens
36	Siemens power contactor 3TF46 22-0A(with auxiliary contacts 2 NO+2 NC),220V coil	10	Siemens
37	Spare 415V coil for 3TF46 contactor	10	Siemens
38	Siemens power contactor 3TF46 22(with auxiliary contacts 2 NO+2 NC),24V coil	10	Siemens
39	Siemens power contactor 3TF34 22(with auxiliary contacts 2 NO+2 NC),24V coil	20	Siemens
40	Siemens power contactor 3TF32 22(with auxiliary contacts 2 NO+2 NC),24V coil	45	Siemens
41	Single phasing preventer,230V,1NO+1NC,5A	4	L&T/Minilec/Schneider
42	Star delta on delay electronic timer 1 NO ,1NC (3 – 60 sec)	4	Siemens/ABB/ Telemecanique
43	Full wave single phase bridge rectifier with filter unit 40A,500V	4	Reputed ISI marked
44	2 phase Control transformer Type of transformer – 2 phase transformer Primary: 415 V (+/- 10%) line volt. Secondary: 0V - 230V Rating: 1 KVA Winding material: electrolytic copper wire Execution: open type Wire class: F All the leads should be terminated on bakelite strip connectors duly marked.	1	Reputed ISI marked

ANNEXURE-1

45	<p>2 phase Control transformer Type of transformer – 2 phase transformer Primary: 415 V (+/- 10%) line volt. Secondary: 0V - 24V,28V,30V(3 tappings) Rating: 1 KVA Winding material: electrolytic copper wire Execution: open type Wire class: F All the leads should be terminated on bakelite strip connectors duly marked.</p>	1	Reputed ISI marked
46	<p>2 phase Control transformer Type of transformer – 2 phase transformer Primary: 415 V (+/- 10%) line volt. Secondary: 0V - 24V Rating: 500VA Winding material: electrolytic copper wire Execution: open type Wire class: F All the leads should be terminated on bakelite strip connectors duly marked.</p>	11	Reputed ISI marked
47	<p>2 phase Control transformer Type of transformer – 2 phase transformer Primary: 220 V (+/- 10%) line volt. Secondary: 0V - 24V Rating: 200VA Winding material: electrolytic copper wire Execution: open type Wire class: F All the leads should be terminated on bakelite strip connectors duly marked.</p>	10	Reputed ISI marked
48	<p>2 phase Control transformer Type of transformer – 2 phase transformer Primary: 440 V (+/- 10%) line volt. Secondary: 0V - 80V,110V (2 tappings) Rating: 1 KVA Winding material: electrolytic copper wire Execution: open type Wire class: F All the leads should be terminated on bakelite strip connectors duly marked.</p>	6	Reputed ISI marked
49	<p>Lighting transformer for 24 V,40W handlamp bulbs (12Nos.) Transformer should be housed in a sheet metal box with 12 outgoing , neutral bus bar .The Transformer box should be provided with suitable primary/secondary MCBs(16 A on incoming, 10 A on each outgoing) All the leads should be terminated on bakelite strip connectors duly marked. 2 phase Control transformer Type of transformer – 2 phase transformer Primary: 415 V (+/- 10%) line volt. Secondary: 0V - 24V,22V,26V (3 tappings) Rating: 2KVA Winding material: electrolytic copper wire</p>	5	Reputed ISI marked
50	Hat top rails (chromium coated) in 2m length pieces.	20	
51	Din rails (chromium coated) in 2m length pieces.	10	
52	Indicating Lamps: 22.5mm dia. LED Type(Red, Yellow, Blue, Green),230 V AC	40 of each color	Siemens/ABB/ Telemecanique
53	Indicating Lamps: 22.5mm dia. LED Type(Red, Yellow, Blue, Green),24 V AC	40 of each color	Siemens/ABB/ Telemecanique
54	Push button with indication lamp,1NO,1NC,10A,230V AC.	20	Siemens/ABB/ Telemecanique
55	Single Pole MCB 25A	50	Siemens/ABB/ Telemecanique

ANNEXURE-1

56	4 position joystick (non returnable type),10A,230V (portable size)	10	Reputed ISI marked
57	4 position joystick (returnable type),10A,230V (portable size)	10	Reputed ISI marked
58	Toggle switch DPDT,ON-OFF-ON, 10 A	100	Reputed ISI marked
59	PVC cable trays-2m length,30H X 30W	20	Reputed ISI marked
60	PVC cable trays-2m length,30H X 25W	20	Reputed ISI marked
61	DP MCB-10 A,415V	10	Siemens/ABB/ Telemecanique
62	DP MCB-6 A,415V	10	Siemens/ABB/ Telemecanique
63	TP MCB-16A	30	Siemens/ABB/ Telemecanique
64	TP MCB-32A	30	Siemens/ABB/ Telemecanique
65	Isolated DC drive. Model: Er3200i/32 7.5KW,32A,240/415V AC supply	8	Eurotherm
66	Speedometer and potentiometer suitable for Isolated DC drive of eurotherm make. Model: Er3200i/32 7.5KW,32A,240/415V AC supply.	10	Reputed ISI marked
67	Phase sequence relay(for phase sequence detection)	5	Minilec
68	4 pole MCCB (Adjustable Overload & Adjustable Short Circuit Settings) for line protection - 250A , Thermal Magnetic Release, Icu = 25kA, 415 V AC, 50 Hz,	20	Siemens/ABB/ Telemecanique
69	RCCB-4pole,63A,housed in sheet metal enclosure.Sensitivity:100mA	100	Siemens/ABB/Legrand/Hager
70	Machine light (two folding) with 230 V LED lamp	30	
71	Rotary switch- 63 A,500 V,3 pole(three cams for 3 phase power ON & OFF) 90° both sides.	10	Kaycee,Salzer
72	Rotary switch- 100 A,500 V,3 pole(three cams for 3 phase power ON & OFF) 90° both sides.	10	Kaycee,Salzer
73	Rotary switch- 32 A,500 V,3 pole(three cams for 3 phase power ON & OFF) 90° both sides.	30	Kaycee,Salzer
74	Rotary switch- 16 A,500 V,2 pole(power ON & OFF) 90° both sides.	50	Kaycee,Salzer
75	Rotary switch- 200 A,500 V,3 pole(three cams for 3 phase power ON & OFF) 90° both sides.		Kaycee,Salzer
76	Open type connector block,500V (1) 12 way, 100 A (2) 24 way, 30 A (3) 24 way , 10 A	3 20 20	Elmex
77	Closed type connector block,500V,rigid terminal type: (1) 24 way,30 A (2) 12 way,63 A (3) 12 way,100 A		Elmex
78	Diodes:40FMR/HMR 100/120,stud version with lead(stud 8mm)	100	
79	Rotary selector switch 16A, 415V, Single Pole 4 way without off, 4 position 90 Deg., Only one contact should close in each position		Kaycee,Salzer
80	Metal enclosed Limit switch-Narrow housing ,40mm wide two contacts- closed type-1NO+1NC 3SE3120-1B	20	Siemens
81	Metal enclosed Limit switch-Narrow housing ,40mm wide two contacts- closed type-1NO+1NC 3SE3120-1C	20	Siemens
82	Metal enclosed Limit switch-Narrow housing ,40mm wide two contacts- closed type-1NO+1NC 3SE3120-1G	20	Siemens
83	Metal enclosed Limit switch-Narrow housing ,40mm wide two contacts- closed type-1NO+1NC 3SE3120-1D	20	Siemens
84	MPCB - MPCB trips on S/C and also on O/L. Adjustable Overload range: 0.9 to 1.25 A	20	Siemens/ABB/ Telemecanique
85	MPCB- MPCB trips on S/C and also on O/L. Adjustable Overload range: 3.5 to 5 A	40	Siemens/ABB/ Telemecanique
86	Push button pendant station with 4 push buttons and potentiometer	5	

ANNEXURE-1

87	Porcelain open type HRC fuse holder, 250A with fuse links. Spare HRC fuse links 250A	60 100	Siemens/Standard/Havells/GE
88	Porcelain open type HRC fuse holder, 200A with fuse links Spare HRC fuse links 200A	60 100	Siemens/Standard/Havells/GE
89	<u>Bakelite Fuse units:</u> <ol style="list-style-type: none"> 1. 100 Amps , busbar mounting, GE SM100B or equivalent 2. 100 Amps , panel mounting, GE SM100H or equivalent 3. 63 Amps , busbar mounting, GE SM63B or equivalent 4. 63 Amps , panel mounting, GE SM63H or equivalent 5. 32 Amps , busbar mounting, GE SM32B or equivalent 6. 32 Amps , panel mounting GE SM32H or equivalent 7. 16 Amps , busbar mounting GE SM16B or equivalent 8. 16 Amps , panel mounting GE SM16H or equivalent 	200 200 200 200 200 200 100 200	Siemens/Standard/Havells/GE
90	<u>HRC fuse links:</u> <ol style="list-style-type: none"> 1. 100 Amps suitable for GE- SM100 Holder 2. 63 Amps suitable for GE- SM63 Holder 3. 32 Amps suitable for GE- SM32 Holder 4. 16 Amps suitable for GE- SM16 Holder 5. 315 Amps. Model: TK1F 315 6. For 100A switch fuse unit. Model: TCP 100 	300 300 300 200 100 100	Siemens/Standard/Havells/GE

S.No	Item	Make	Model No	Details	Qty
1	MPCB	SIEMENS	3VU1340-1MC00	0.16 - 0.24 A	2
2	MPCB	SIEMENS	3VU1340-1MDOO	0.24 - 0.4 A	2
3	MPCB	SIEMENS	3VU1340-1MF00	0.6 - 1 A	2
4	MPCB	SIEMENS	3VU1340-1MG00	1 - 1.6 A	2
5	MPCB	SIEMENS	3VU1340-1MH00	1.6 - 2.4 A	2
6	MPCB	SIEMENS	3VU1340-1MM00	10 - 16 A	2
7	MPCB	SIEMENS	3VU1340-1NH00	2 - 3.2 A	2
8	MPCB	SIEMENS	3VU1340-1MJ00	2.4 - 4 A	2
9	MPCB	SIEMENS	3VU1340-1MP00	22 - 32 A	2
10	MPCB	SIEMENS	3VU1340-1MR00	36 - 52 A	2
11	MPCB	SIEMENS	3VU1340-1MK00	4 - 6 A	2
12	MPCB	SIEMENS	3VU1340-1ML00	6 - 10 A	2
	MPCB	SIEMENS	3VU1340-1ME00	0.4 - 0.6 A	2
13	MCCB	SIEMENS	3RH2131-1AP00	3RH2131-1AP00, 230V 50/60Hz	2
14	MCCB	SIEMENS	3RT2016-1AP01	3RT2016-1AP01, 230V	2
15	MCCB	SIEMENS	3TF30/10E	3TF30/10E, 230V	2
16	MCCB	SIEMENS	3RT2017-1AP01	3RT2017-1AP01, 230V	2
17	MCCB	SCHNEIDER	LC1F265	LC1F265	2
18	MCCB	SCHNEIDER	NSX 250F	NSX 250F	2
19	MCCB	SCHNEIDER	LC1D12, 110-240V AC	LC1-D12M7 : 3POLE+1NO+1NC	2
20	MCCB	SCHNEIDER	LC1D25, 110-240V AC	LC1-D25M7 : 3POLE+1NO+1NC	2
21	MCCB	SCHNEIDER	LC1D40, 110-240V AC	LC1-D40M7 : 3POLE+1NO+1NC	2
22	OVER LOAD SWITCH	SIEMENS	3RU2116-1FB0	3RU2116-1FB0, 3.5-5 A max	2
23	OVER LOAD SWITCH	SIEMENS	3RU2116-1GB0	3RU2116-1GB0, 4.5-6.3A max	2
24	OVER LOAD SWITCH	SIEMENS	3RU2116-1JB0	3RU2116-1JB0, 7-10A max	2
25	OVER LOAD SWITCH	SIEMENS	3RU2116-0HB0	3RU2116-0HB0, 0.55-0.8 A max	2
26	OVER LOAD SWITCH	SCHNEIDER	GV2ME20	13-18A	2
27	OVER LOAD SWITCH	SCHNEIDER	GV2ME03	0.25-0.4A	2
28	OVER LOAD SWITCH	SCHNEIDER	GV2ME08	2.5-4A	2
29	OVER LOAD SWITCH	SCHNEIDER	GV2ME06	1-1.6A	2
30	OVER LOAD SWITCH	SCHNEIDER	GV2ME04	0.4-0.63A	2
31	OVER LOAD SWITCH	SCHNEIDER	GVRME14	6-10A	2
32	OVER LOAD SWITCH	SCHNEIDER	GVRME10	4-6.3A	2
33	OVER LOAD SWITCH	SCHNEIDER	GVRME16	9-14A	2
34	POWER SUPPLY	SIEMENS	6EP1334-2AA01 Q6CO	INPUT: AC 120/230V, 41/24A OUTPUT: 24 V/10 A 50/60Hz	1
35	POWER SUPPLY	SIEMENS	6EP1436-3BA00	3AC 400V -500V 50/60 Hz DC24V/20A	1
36	POWER SUPPLY	SIEMENS	6EP1336-3BA00	AC 120V/230V 50/60 Hz DC24V/20A	1
37	POWER SUPPLY	SIEMENS	6EP0133-3AA00-0AA1	INPUT : 87-130V AC : 187-264V AC : 2.4A, 47-63Hz OUTPUT : 24V DC/5A	1
38	SWITCH MODE POWER SUPPLY	LUBI ELECTRONICS	MODEL NO: LE-A-24-045	MODEL NO.LE-A-24-045 INPUT: 180-264V, 50/60Hz OUTPUT: 24V/4.5A	1

39	SWITCH MODE POWER SUPPLY	MEAN WELL	MODEL:NES-15-5	MODEL:NES-15-5 INPUT: 100-240V AC, 0.5A OUTPUT: +5V, 3A	1
40	MCB	SIEMENS	5SX41027RC	MCB 2A 1P 10KA 5SX	2
41	MCB	SIEMENS	5SX41067RC	MCB 6A 1P 10KA 5SX	2
42	MCB	SIEMENS	5SX41047RC	MCB 4A 1P 10KA 5SX	2
43	MCB	SIEMENS	5SX41107RC	MCB 10A 1P 10KA 5SX	2
44	MCB	SIEMENS	5SX42027RC	MCB 2A 2P 10KA 5SX	2
45	MCB	SIEMENS	5SX42067RC	MCB 6A 2P 10KA 5SX	2
46	MCB	SIEMENS	5SX42207RC	MCB 20A 2P 10KA 5SX	2
47	MCB	SIEMENS	5SX42107RC	MCB 10A 2P 10KA 5SX	2
48	MCB	SIEMENS	5SL63027RC	MCB 10A 2P 10KA 5SX	2
49	MCB	SIEMENS	5SL63107RC	C10, ~415V	2
50	MCB	SIEMENS	5SL63637RC	C63, ~415V	2
51	MCB	SIEMENS	5SL63027RC	C2, ~415V	2
52	MCB	SIEMENS	5SL63207RC	C20, ~415V	2
53	MCB	SIEMENS	5SL62047RC	C4, ~240/415V	2
54	POWER CONTACTOR	SIEMENS	3TF3300-OAP0	22A 230VAC;COIL 50HZ	2
55	POWER CONTACTOR	SIEMENS	3TF3001-OAP0	9A 230VAC	2
56	POWER CONTACTOR	SIEMENS	3TF3200-OAP0	16A 230VAC;COIL 50HZ.	2
57	POWER CONTACTOR	SIEMENS	3TF4702-OAP0ZA01	63A 230VAC	2
58	AUXILIARY CONTACT BLOCK	SIEMENS	3TX4001-2A	1NC	2
59	POWER CONTACTOR	SIEMENS	3TF5202-OAP0	170A 230VAC	2
60	SURGE SUPPRESSOR - VARISTOR	SIEMENS	3TX7462-3JY1	VARISTOR FOR 3TF46-56	2
61	SURGE SUPPRESSOR - VARISTOR	SIEMENS	3TX7402-3JY1	3TX7402-3JY1	2
62	SEMICONDUCTOR FUSES	SIEMENS	3NE3227	250A 1000V AC;SIZE-1	2
63	SELECT SW/LAMP	FUJI	AR22PL-211E3G	AR22PL-211E3G	1
64	SELECT SWITCH	FUJI	AR22F0L-10E3S	AR22F0L-10E3S	1
65	SELECT SWITCH	FUJI	AR22F0R-01R	AR22F0R-01R	1
66	SELECT SWITCH	FUJI	AR22PR-211B	AR22PR-211B	4
67	SELECT SWITCH	FUJI	AR22PR-210B	AR22PR-210B	2
68	SELECT SWITCH	FUJI	AR22PR-120B	AR22PR-120B	2
69	SELECT SWITCH	FUJI	AK22-1M73CPB	AK22-1M73CPB, 600V, 10A, 6 way, 2 pole	2
70	SELECT SWITCH	FUJI	AK22-1M53CPB	AK22-1M53CPB, 600V, 10A,4 way,2 pole	2
71	LEVER SWITCH	FUJI	AR22A7N-AAAA	AR22A7N-AAAA, 5A/250VAC, 0.2A/125VDC	2
72	KEY SWITCH	FUJI	AR22JR-1E22A	AR22JR-1E22A	1
73	LAMP	FUJI	DR22D0L-E3G	DR22D0L-E3G	1
74	LAMP	FUJI	DR22D0L-E3W	DR22D0L-E3W	1
75	LAMP	FUJI	DR22D0L-A3W ,AC6V	DR22D0L-A3W ,AC6V	1
76	PUSH BUTTON SWITCH	FUJI	AR22VDL-01E3R	AR22VDL-01E3R	2
77	PUSH BUTTON SWITCH	FUJI	AR22PR-211B	AR22PR-211B	1
78	PUSH BUTTON SWITCH/LA	FUJI	AR22F0L-10E3G	AR22F0L-10E3G	2
79	PUSH BUTTON SWITCH	FUJI	AR22F0R-10G	AR22F0R-10G	1
80	PUSH BUTTON SWITCH	FUJI	AR22F0R-10Y	AR22F0R-10Y	1

81	PUSH BUTTON SWITCH	FUJI	AR22FOR-01R	AR22FOR-01R	2
82	PUSH BUTTON SW/LAMP 2	FUJI	AR22FOL-10E3S	AR22FOL-10E3S	2
83	PUSH BUTTON SW/LAMP 1	FUJI	AR22FOL-10E3W	AR22FOL-10E3W	1
84	EARTH LEAKAGE BREAKER	LSIS	EBS203C-150A	EBS203C-150A	1
85	EARTH LEAKAGE BREAKER	LSIS	EBN103c/60AT 500mA	EBN103c/60AT 500mA	1
86	EARTH LEAKAGE BREAKER	LSIS	EBN203c,3P, 120AT	EBN203c,3P, 120AT	1
87	MAGNETIC SWITCH	LSIS	GMC-22, AC220Vcoil	GMC-22, AC220Vcoil	1
88	MAGNETIC SWITCH	LSIS	GMC-12, AC220Vcoil	GMC-12, AC220Vcoil	2
89	MAGNETIC SWITCH	LSIS	GMC-9, AC220Vcoil	GMC-9, AC220Vcoil	5
90	MAGNETIC SWITCH	LSIS	GMC-9R, AC220Vcoil	GMC-9R, AC220Vcoil	2
91	MAGNETIC SWITCH	LSIS	GMC-18, AC220Vcoil	GMC-18, AC220Vcoil	1
92	MAGNETIC SWITCH	LSIS	GMC-40, AC220Vcoil	GMC-40, AC220Vcoil	1
93	Proximity switch	Omron	E2E-X3D2-N 2M	Shielded , M12 , Sensing Distance 3 mm , Operation Mode NC	4
94	DOUBLE MOTOR MODULE	SIEMENS	1P 6SL3120-2TE21-8AA3 S T-B72060212	INPUT: DC 600V OUTPUT: 3AC 400V 18A/18A A5E00675493 Version: E	1
95	CHOKE			Rated current: 200A/75KW INDUCTACE:0.076mH Insulation class: F	1
96	Single Motor Module	SIEMENS	6SL3 120-1TE24-5AA3	SINAMICS Single Motor Module Input: DC 600V Output: 3AC 380-480V 45A 1P 6SL3 120-1TE24-5AA3	2
96	Single Motor Module	SIEMENS	6SL3 120-1TE21-8AA3	SINAMICS Single Motor Module Input: DC 600V Output: 3AC 380-480V 18A 1P 6SL3 120-1TE21-8AA3	1
97	Basic Line Filter	SIEMENS	6SL3000-1BE23- 6DA1SAA3	Basic Line Filter for 36KW ALM/SLM and 40 KW BLM 3AC, 380-400V, 50-60HZ, 74A 1P 6SL3000-OBE23-6DA1 ZSY000111066937 A5E01050681 Version: A	1T 1

Approx. amount:Rs. 10 Lakhs

COMMERCIAL TERMS AND CONDITIONS FOR SUBMISSION OF OFFER**1.0 QUOTATIONS**

Bidders shall submit the offer in TWO INNER ENVELOPES as indicated below which shall be sealed in one outer envelope.

Envelope I: This sealed envelope should contain all the copies of technical bid together with un-priced commercial bid. This envelope should be clearly marked “**Part I – Technical and Un-priced commercial bid**” Indicating Tender No., Due Date and Address & Reference of the Bidder.

Envelope II: This sealed envelope should contain price details this envelope should be clearly marked “**Part II - Price bid**” indicating Tender No., Due Date and Address & Reference of the Bidder.

Both the envelopes (Part I & II) shall be put in one cover, duly sealed, super scribing as Part I and Part II of Tender No., due date of opening and the address and reference of the Bidder

The above offer should reach this office on or before the due date by 14.00 Hrs (IST)
Tender should not be addressed to any Individuals name but only designation to

Sr. Manager (MM)
BHARAT HEAVY ELECTRICALS LIMITED
HEAVY PLATES & VESSELS PLANT
VISAKHAPATNAM - 530 012 (A P), INDIA.

Tenders should be free from CORRECTION AND ERASURES. Corrections if any must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amount quoted in words and figures, amount quoted in words shall prevail.

Offers should be in ENGLISH and accompanied by technical literature catalogue and detailed dimensional drawings in ENGLISH or otherwise the offers will not be considered.

2.0 PART I (TECHNICAL & UN-PRICED COMMERCIAL BID)**2.1 Technical**

This part shall include / indicate the following:

- 2.1.1. Offer should contain complete scope of supply with all technical details, specifications, delivery and other commercial terms and conditions.
- 2.1.2. Point by point confirmation for the Technical Specification enclosed is to be provided. If there are any deviations the same should be clearly specified. Offers received without conformation to our specification will be rejected.
- 2.1.3. List of customers to whom same or similar equipment have been supplied along with performance certificates to be enclosed.
- 2.1.4. Relevant catalogue to be attached.
- 2.1.5. List of spares parts (with part numbers) for two years operation and maintenance should be attached.

2.1.6. Information on shipping weight and cubage (length, width & height) to be provided

2.1.7. In case of foreign bidder offer, the Principal's technical offer only should be enclosed.

2.2 Un-Priced Commercial

This part shall include / indicate the following

2.2.1. Port of shipment / Station of dispatch

2.2.2. Terms of payment

2.2.3. FOB/FCA price along with freight charges up to Chennai port (for foreign bidders) Ex-works/FOR Dispatch Station price along with freight charges up to BHEL Visakhapatnam (for Indian bidders)

2.2.4. Taxes, Service tax & duties including Cess applicable.

2.2.5 Delivery Schedule

2.2.6. Filled-in check list to be enclosed

2.2.7. Offer validity

2.2.8. Country of origin

2.2.9. Percentage of agency commission if any along with a copy of Agency agreement The FOB/FCA/CFR Prices quoted shall include the agency commission.

2.2.10. A copy of "Un-Priced Part II 'i.e., a copy of the Price Bid without the price details to be enclosed.

2.2.11 BHEL Visakhapatnam is eligible for availing CENVAT / VAT credit on both inputs and capital inputs. The suppliers invoice should separately indicate the amount of duty / taxes and should invariably mention the following details:

1. The Central excise registration number, range division and commission rate of the supplier's jurisdiction.
2. The rate of duty and 8 digit central excise tariff heading of the item supplied.
3. The TIN, VAT, CST registration number of the supplier.

The duplicate copy of the invoice is required for availing CENVAT credit and original copy for availing VAT credit, if purchased within the state.

In case of foreign bidders the duplicate copy of the electronic Bill of Entry along with TR6 challan should be made available for availing CENVAT credit on CVD, Cess (S) and SAD.

3.0 **PART II (PRICE – BID)**

This part should contain the schedule of price particulars and to be co-related to the technical details provided in Part-I

4.0 **OPENING OF TENDERS**

The Part I – Technical & un-priced commercial bid alone would be opened on the Tender opening date.

The Part II – Price bid of technically suitable Bidders alone would be opened. The Technically suitable Bidders would be informed about the Price Bid opening date. Clarifications if any required by BHEL Visakhapatnam FOR Technical evaluation / commercial evaluation would be sought from Bidders before opening of Part II – price bid.

GENERAL

5.1 Incomplete offers will not be considered.

5.2 **Fixed priced:** Prices quoted by the bidder shall be fixed and not subject to any escalation whatsoever during the period of bid validity and execution of the Purchase Order A bid submitted with an adjustable price will be treated as non- responsive and rejected Prices shall be written in words and figures. In the event of difference, the price in words shall be valid and binding. Unit prices shall be considered correct in the event of any discrepancy with regards to total price.

5.3 **Bid currency:** Indian bidders should submit the prices only in Indian Rupees. Foreign bidders may submit their bid in their home currency, which should be clearly indicated in the un-priced commercial bid as well as in the price bid. Price bid opening date/ RA date will be considered as effective date for considering exchange rate to evaluate the offers.

- 5.4 **Terms of Delivery:** Bidders are required to quote their best delivery period. Foreign Bidders should submit their offer for net FOB/ FCA – Nearest Sea Port / Air Port as well as CFR / Chennai Seaport/ Airport. Freight charges up to Chennai port to be indicated separately. Indian Bidders should submit their offer for Dispatching station as well as FOR BHEL Visakhapatnam basis. Freight charges from works to BHEL Visakhapatnam to be indicated separately. Delivery from the date of Letter of Intent to be mentioned in the offer.
- 5.5 **Taxes and Duties:** All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No/ Tariff No. etc, failing which the purchaser will not be liable for payment of such Taxes and Duties (Our TIN No.28280189432, APGST No. VSP/04/1/1023 dated 24.08.1968. CST No.VSP/04/1/1012 dated 24.08.1968 & BHEL Visakhapatnam ECC No AAA CB 7076 N-XM001. Assessment circle Visakhapatnam.)
- 5.6 **Validity:** The offers for main equipment and spares shall be kept open for acceptance for a period of 120 days (one hundred and twenty days) from the dates of opening of the tender (part I)
- 5.7 **Terms of Payment:**
- 5.7.1 **Indian Bidders:**
100% payment will be made within 45 days of receipt of material at BHEL,Visakhapatnam and on submission of Performance Bank Guarantee for 10%.
- 5.7.2 **Foreign Bidders**
An Irrevocable letter of Credit shall be established for 80% of FOB/FCA/CFR/ (excluding Indian Agent's commission) 2 months prior to shipment and valid for 3 months for negotiation against shipment Letter of Credit shall be opened through a branch of State Bank of India in the country where order shall be placed. In case, in the country where order is placed, State Bank of India is not there, Letter of Credit will be confirmed by foreign banker. Balance 20% of FOB/FCA/CFR value shall be paid through sight draft on Commissioning & acceptance of the equipment at BHEL Visakhapatnam, against submission of 10% performance bank guarantee. All Bank charges outside India are to supplier's account. Lump sum erection and commissioning charges if any, shall be payable after satisfactory erection & commissioning of the equipment by sight draft against certificate issued by the competent authority.
- 5.7.3 **Common to both India & Foreign Bidders.**
Erection & Commissioning (E&C) charges will be released after deduction of Income Taxes as per the Govt. of India rules. The TDS certificate will be issued by BHEL. Applicable service tax on E&C charges will be payable extra. The liability of depositing the same to the Govt. will be of the supplier.
- 5.7.4 **Loading criteria common to both Indian and foreign bidders:** Vendor should accept the payment terms specified above. However for any deviation to the payment terms offered with reference to the above criterion will be loaded with prime lending rate of SBI prevailing on date of opening of price bid + 2%, which shall be computed for the differential period between BHEL Visakhapatnam terms of payment and the offered basic price.
- 5.8 DUNS number (allotted by M/s. DUN & Bradstreet) shall be mentioned in your offer.
- 5.9 **Guarantee:** The equipment shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of commissioning and acceptance whichever is earlier.
Offers from vendors not accepting to the requested guarantee period will be rejected.

- 5.10 **Contract Execution Bank Guarantee (CEBG):** The successful tenderer shall furnish a Bank Guarantee from any Nationalized Bank for 5% of Purchase Order value (FOR Dispatching station value – Excluding taxes, duties, freight & insurance – for Indian bidders) & (FOB/FCA value – excluding freight & insurance – for foreign bidders) confirming that the order will be executed as per the terms and conditions and this should be valid till final dispatch date (LR/GR/BL/AWB) with additional 2 months claim period. Letter of Credit will be processed only after receipt of CEBG. The CEBG is to be furnished within 3 weeks from the date of Purchase order.
Offers from vendors not accepting to submit CEBG will be rejected.
- 5.11 **Performance Bank Guarantee (PBG):** The supplier shall furnish a Bank guarantee from any Indian Nationalized Bank approved by BHEL Visakhapatnam in the format, given by BHEL Visakhapatnam along with purchase order for 10% of the Purchase Order value (FOR Dispatching station value – Excluding taxes, duties, freight & insurance – for Indian bidders) & (FOB/FCA value – excluding freight & insurance – for foreign bidders) valid for period of guarantee with additional claim period of 2 months.
Offers from vendors not accepting to submit PBG will be rejected.
- The CEBG & PBG shall be obtained from any Indian Nationalized Bank/ Scheduled Commercial Banks.
- 5.12 **Liquidated damages:** Delivery of the goods specified in the purchase order should be made within the time prescribed. Failure to dispatch the materials in the time as per the delivery quoted in our Purchase Order would make the supplier liable to an un-conditional penalty at the rate of ½% of the value of goods for each week of delay subject to a maximum of 10% of the Purchase Order value.
- 5.12.1 **Loading Criteria for Liquidated Damages:** Any deviation from above LD Clause to the extent for which LD is not agreed by the vendor i.e., differential % value will be loaded on basic price, e.g. If some vendor agrees for say maximum of 6% LD then his price will be loaded by 4% (10 – 6) of his quoted basic price.
- 5.13 **Risk purchase:** If the supplier fails to deliver the goods within the delivery specified in the Purchase Order, BHEL Visakhapatnam will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or dispatch within the delivery period mentioned in the Purchase Order.
Offers from vendors not accepting the above Risk Purchase terms will be rejected.
- 5.14 **Indian Agent & Agency commission:** An Indian Agent can represent only one Foreign Manufacturer against a particular Tender. The FOB/FCA/CFR price quoted by the Foreign bidder shall include the agency commission. However, the agency commission component payable to their Indian Agents shall be shown separately in the offer. This will be paid by BHEL Visakhapatnam in India Rupees, on satisfactory commissioning & acceptance of the equipment. Copies of current Agency Agreement / Authorization Letter in respect of Agency Commission shall be furnished along with offer. For calculation of Rupee equivalent of Agency Commission exchange rate as prevailing on the date of Purchase Order will be taken.
- 5.15 **Short shipment / Warranty replacement:** In case of any short shipment in the main equipment / spares, customs duty levied on such supplies, shall be borne by the supplier. Any warranty replacement during the warrantee period shall be on FOR, BHEL Visakhapatnam, basis.

- 5.16 **Inspection & Testing:** All goods shall be subject to inspection by BHEL Visakhapatnam or its authorized representatives at supplier's works or at BHEL Visakhapatnam stores. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools the machine would be inspected and proved at supplier's works prior to dispatch however, final inspection and acceptance of the machine will be carried after installation of the machine at BHEL, Visakhapatnam.
- 5.17 **Operating and Maintenance manuals:** The Bidders shall clearly mention in their offer that Operating Maintenance Manuals as called for in the Technical Specification in the required number of copies will be provided.
- 5.18 **Cenvat & VAT credit. (for Indian Bidders only):** The quotation must indicate Tariff item number and rate of Excise Duty applicable. The original Excise Duty Gate Pass will be required to be furnished in case charges to us. If the bidder is availing Cenvat credit for his input materials, the effect of proforma credit should be passed on to the purchaser.
- 5.19 **Packing:** The Supplier shall arrange for packing suitably in all respects considering the peculiarity of the material involves for normal transport by sea / air / rail road and suitably protected against effect of tropical salt laden atmosphere in the event of shipment being delayed at ports.
- 5.20 **Salient Points of HSE** (Health, Safety & Environment) that are to be considered while submissions of offer are:
- 5.20.1 Consumption benchmarks related to output shall be provided wherever applicable for key input resources (energy/fuels/chemicals)
- 5.20.2 Competency requirements for operation, maintenance and calibration, if any, shall be communicated
- 5.20.3 If any Hazardous chemicals as per MSIHC (Manufacturing, Storage and import of Hazardous Chemicals) Rules 1989/94/2000 are used, the MSDS shall be provided, along with on site & OFF site emergency plan (as applicable).
- 5.20.4 The noise level at operator level shall be within 90 DbA
- 5.20.5 OH&S (Occupational Health and Safety) control measures for safe working of machine as applicable shall be specified
- 5.20.6 The machine/equipment shall be fitted with guard for rolling and moving parts and shall comply with applicable OH&S legislations and Factories Act 1948
- 5.20.7 The supplier shall submit the layout drawing of operating controls, displays etc and operating instructions to enable ergonomics evaluation and approval
- 5.20.8 The recommended PPE (Personal Protective Equipment) for the equipment shall be furnished
- 5.20.9 Alarm System (both visual and audible) and Automatic switch off of the equipment shall be provided for any intrusion, overloading, short circuiting or any malfunctioning of the equipment.
- 5.20.10 Details of all hazardous / harmful substances discharges as by-products / wastes during operations of the machine / equipment, such as fumes, gases, dust particles, aerosols UV./IR (Ultra violet / Infra red) radiations, etc shall be furnished, along with their concentrations and their TLV, (Threshold Limit Value)

- 5.20.11 Appropriate pollution control measures shall be proposed to keep the emissions from the machinery / processes within the prescribed limit as stated in Environment Protection Rules 1986.
- 5.20.12 All furnaces, process units, DG sets, paint booths, shot blasting chambers, etc shall be provided with stack(s) of sufficient height as per guidelines laid down in the Environment Protection Rules 1986.
- 5.20.13 wherever industry specific standards are not available for control of pollutants, general emission standards shall be used
- 5.20.14 Chemicals banned due to their negative impact on the environment shall not be used on the process
- 5.20.15 Fuels with sulphur content less than 0.05% shall be proposed.
- 5.20.16 Details regarding nature of waste generated and appropriate disposal practices available shall be provided, along with the operation procedure of the plant / process.
- 5.20.17 Hazardous chemicals and flammable substances shall be transported only through authorized transporters and all safety practices as laid down in applicable legislative requirements such as Central Motor Vehicle Rules, Manufacture, Storage and Import of Hazardous Chemical 1989, etc. shall be followed.
- 5.20.18 Primary materials used in the equipment shall be specified and they shall be eco - friendly.
- 5.21 Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL Visakhapatnam).
- 5.22 BHEL Visakhapatnam also reserves its right to allow to the Public Sector Enterprises ordering and price preference facilities as admissible under the existing policy.
- 5.23 BHEL Visakhapatnam reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at another project / unit.
- 5.24 BHEL Visakhapatnam shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL Visakhapatnam.
- 5.25 BHEL Visakhapatnam reserves the right to go for a Reverse Auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions governing RA are given below.

GENERAL TERMS AND CONDITIONS OF RA (REVERSE AUCTION)

Against this enquiry for the subject item/system with detailed scope of supply as per enquiry specifications. BHEL Visakhapatnam may resort to “REVERSE AUCTION PROCEDURE” i.e., ON LINE BIDDING ON INTERNET.

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. BHEL Visakhapatnam will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
3. BHEL Visakhapatnam will inform the vendor in writing in case of reverse auction, the details of service provider to enable them to contact & get trained.

4. Business rules like event date, time, start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.
 5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event.
 6. BHEL Visakhapatnam will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL Visakhapatnam like Packing & Forwarding charges, taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL Visakhapatnam standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.
 7. Reverse auction will be conducted on scheduled date & time.
 8. At the end of Reverse Auction event, the lowest bidder value will be known on the network.
 9. The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL Visakhapatnam through Service provider within 24 hours of Auction without fail.
 10. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL Visakhapatnam as per prevailing procedure.
 11. In case BHEL Visakhapatnam decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL Visakhapatnam shall be opened as per BHEL Visakhapatnam's standard practice.
- 5.26 **Force Majeure clause:** If at the time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist, if the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by the purchaser subject to prompt notification by the seller to the purchaser of the particulars of the events and supply to the purchaser if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.

CHECK LIST

Bidder's acceptance to BHEL Visakhapatnam's Standard Commercial Terms & Conditions.

Applicable for Indian bidders

(To be submitted along with the offer – please do not change the format)

BHEL Visakhapatnam Tender No: & Date:	Bidders Confirmation / response
Prices have been quoted on "FIRM PRICE" basis only (Yes / No)	
Prices have been quoted on "F.O.R BHEL Visakhapatnam" basis only (Yes / No)	
P & F (Please confirm whether included or not)	
Freight (Please confirm whether included or not)	
Insurance (Please confirm whether included or not)	
Validity of offer (we require a minimum period of 120 days from the date of Tender Opening – please Specify)	
Sales Tax (please Specify)	
Excise Duty (please Specify)	
Delivery period from the date of Purchase Order (please Specify). A loading @ ½ % of the Purchase Order value per week will be done for the grace period requested. For evaluation 4 weeks will be considered as one month. Vendors quoting a delivery period beyond the 'the requested delivery plus the allowed grace period' is liable for rejection.	
Liquidated damages as per clause 5.12 (we require acceptance to @ ½% per week subject to a maximum of 10%) (Yes / No)	
Risk Purchase as per clause 5.13 (Yes / No) (Offers from vendors not accepting the Risk Purchase terms will be rejected)	
Payment terms (As per Clause No. 5.7.1) (Yes / No)	
Contract Execution Bank Guarantee (CEBG) as per Clause 5.10 (Yes / No) (Offers from vendors not accepting to submit CEBG will be rejected)	
Performance Bank Guarantee (PBG) as per Clause 5.11 (Yes / No) (Offers from vendors not accepting to submit PBG will be rejected)	
Guarantee as per clause 5.9 (The equipment shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of commissioning and acceptance whichever is earlier) (Yes / No) (Offers from vendors not accepting to the guarantee period will be rejected)	
Inspection (please Specify the Place of Inspection)	
Erection & Commissioning/ Installation/ Training (Please confirm whether charges are included in the total cost or not)	
Approximate Net Weight of the total Consignment	
Approximate Gross Weight of the total Consignment	

Signature & Office Seal of the bidder

CHECK LIST

Bidder's acceptance to BHEL Visakhapatnam 's Standard Commercial Terms & Conditions.

Applicable for foreign bidders (To be submitted along with the offer – please do not change the format)

BHEL Visakhapatnam Tender No: & Date:	Bidders Confirmation / response
Prices have been quoted on "FIRM PRICE" basis only (Yes / No)	
Prices basis (FOB/CFR/CIF – Please Specify)	
Insurance (Please confirm whether included or not)	
Validity of offer (we require a minimum period of 120 days from the date of Tender Opening – please Specify)	
Currency in which quoted (please Specify)	
Port of loading (please Specify)	
Country of Origin (please Specify)	
Delivery period from the date of Letter of Intent (please Specify) A loading @ ½ % of the Purchase Order value per week will be done for the grace period requested. For evaluation 4 weeks will be considered as one month. Vendors quoting a delivery period beyond the 'the requested delivery plus the allowed grace period' is liable for rejection.	
Liquidated damages as per clause 5.12 (we require acceptance to @ ½% per week subject to a maximum of 10%)	
Risk Purchase as per clause 5.13 (Offers from vendors not accepting the Risk Purchase terms will be rejected) (Yes / No)	
Payment terms (As per Clause No. 5.7.2)	
Agency commission (refer clause 5.14)	
Contract Execution Bank Guarantee (CEPG) as per Clause 5.10 (Yes / No) (Offers from vendors not accepting to submit CEBG will be rejected)	
Performance Bank Guarantee (PBG) as per Clause 5.11 (Yes / No) (Offers from vendors not accepting to submit PBG will be rejected)	
Guarantee as per clause 5.9 (The equipment shall be guaranteed for a period of 18 months from the date of supply or 12 months from the date of commissioning and acceptance whichever is earlier). (Offers from vendors not accepting to the requested guarantee period will be rejected) (Yes / No)	
Inspection (please Specify)	
Erection & Commissioning/ Installation/ Training (Please confirm whether charges are included in the total cost or not)	
Dimension of the Largest Part (please Specify)	
Packing Schedule (No of containers and their Sizes) (please Specify)	
Approximate Net Weight of the total Consignment (please Specify)	
Approximate Gross Weight of the total Consignment (please Specify)	

Signature & Office Seal of the bidder