

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

RFQ DATE: 04.MAY.2023

Note:-

Non-Local supplier whose local content is less than 20% are not eligible to participate in this tender.MII format is mandatory for this tender.Kindly quote inline with tender documents.

(for all correspondence)

Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
1	CN9065425004 IC LIN MULTIPLIER 2 % AD532JH IC LIN MULTPR 2 % TO-100 AD532JH AD532JHZ - ANALOG DEVICES BV AD532KH - ANALOG DEVICES BV AD533KH - ANALOG DEVICES BV	30	NO	30	30.SEP.2023
2	CN9065462023 IC LIN ANALOG SWITCH QUAD DG201ACJ IC LIN SWITCH QUAD DIP P DG201ACJ ADG201AKN - ANALOG DEVICES BV DG201ACJ - INTERSIL INC LTC201ACN - LINEAR TECHNOLOGY CORPORATION DG201ACJ - MAXIM INTEGRATED PRODS INC HI1-201-5 - INTERSIL INC DG201ACJ - VISHAY INTER TECHNOLOGY ASIA PTE. L	200	NO	200	30.SEP.2023
3	CN9065462074 IC LIN ANALOG SWITCH QUAD DG201ABK IC LIN DG201ABK SWITCH QUAD DIP C -25 TO 85øC DG201ABK - MAXIM INTEGRATED PRODS INC DG201ABK - VISHAY INTER TECHNOLOGY ASIA PTE. L LTC201ACN - LINEAR TECHNOLOGY CORPORATION ADG201AKN - ANALOG DEVICES BV ADG201AKNZ - ANALOG DEVICES BV	20	NO	20	30.SEP.2023
4	CN9065472010 IC LIN OPAMP QUAD LM148J IC LIN OPAMP QUAD DIP 14P LM148J LM148J LM148J - NATIONAL SEMICONDUCTORS LM148D - RAYTHEON COMPANY LM148J - SGS THOMSON MICROELECTRONICS LM148J - TEXAS INSTRUMENTS LM148J - ON SEMI CONDUCTOR PM148Y - PRECISION MONOLYTHIC INC LM148J - FREE SCALE SEMI CONDUCTOR	109	NO	109	30.SEP.2023
5	CN9065477020 IC LIN OPAMP SING LM308AN IC LIN OPAMP SING DIP 8P LM308AN LM308AN - INTERSIL INC LM308AN - NATIONAL SEMICONDUCTORS	360	NO	360	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED **Electronics Division**

PB No. 2606, Mysore Road Bangalore - 560026 **INDIA**

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Due Date 15.MAY.2023 Time: 13:00 HRS

> VENUE: SUB ASSLY PUR

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	LM308AN - SGS THOMSON MICROELECTRONICS				
	LM308AP - TEXAS INSTRUMENTS				
	LM308AN - ON SEMI CONDUCTOR				
	PM308AZ - PRECISION MONOLYTHIC INC				
	LM308AN - FREE SCALE SEMI CONDUCTOR				
	CN9065483055 IC LIN VOLT REG POS FIX 15V LM7815CK	11	NO	11	30.SEP.2023
6	IC LIN VOLT REG POS				
	FIX 15V,TO-3				
	LM7815CK				
	LM7815CK - NATIONAL SEMICONDUCTORS				
	L7815CT - SGS THOMSON MICROELECTRONICS				
	MC7815CK - ON SEMI CONDUCTOR				
	7815CDA - PHILIPS SEMICONDUCTORS / NXP				
	MC7815CK - FREE SCALE SEMI CONDUCTOR				
	CN9065486100 IC LIN COMPARATOR QUAD LM139J	300	NO	300	30.SEP.2023
7	IC LIN CMPRTR				
	DIP 14C				
	LM139J				
	LM139N - SGS THOMSON MICROELECTRONICS				
	LM139J - TEXAS INSTRUMENTS				
	LM139J - ON SEMI CONDUCTOR				
	CN9065486232 IC LIN COMPARATOR QUAD CA139AF	205	NO	205	30.SEP.2023
8	IC LIN CMPRTR QUAD				
	DIP 14P				
	CA139AF				
	LM139AJ - SGS THOMSON MICROELECTRONICS				
	LM139AJ - TEXAS INSTRUMENTS				
	CN9065487042 IC LIN OPAMP QUAD LM348NA+	275	NO	275	30.SEP.2023
9	IC LIN OPAMP QUAD				
	DIP 14P				
	LM348NA+				
	LM348N - NATIONAL SEMICONDUCTORS				
	LM348N - SGS THOMSON MICROELECTRONICS				
	LM348N - TEXAS INSTRUMENTS				
	LM348N - ON SEMI CONDUCTOR				
	PM348Y - PRECISION MONOLYTHIC INC				
	LM348N - FREE SCALE SEMI CONDUCTOR	50	NO.	F0	20.055.2022
10	CN9065488219 IC LIN VOLT REG POS FIX 12V LM340T-12	50	NO	50	30.SEP.2023
10	IC LIN VOLT REG POS				
	FIX 12V,TO-220 LM340T-12				
	LM3401-12 LM340T-12 - MOTOROLA SEMICONDUCTORS INC				
	LM340T-12 - MOTOROLA SEMICONDUCTORS INC				
	LIVIDAUT-17 - MATIONAL DEIVINOUNDUCTORD				

For and On behalf of BHEL.

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	LM340T-12 - ON SEMI CONDUCTOR				
	SG340-12G - MICROSEMI IRELEND				
	L7812CV - SGS THOMSON MICROELECTRONICS				
11	CN9065504010 IC LIN OPAMP SING TAA761A IC LIN OPAMP DIP 6P TAA761A ICS TO BE 100% INSPECTED FOR FUNCTION- ALITY. DEFECTIVE ICS TO BE REPLACED BY THE VENDOR. TAA761A - SIEMENS AG/UB KWU	50	NO	50	30.SEP.2023
	TAA762A - SIEMENS AG/UB KWU TAA765A - SIEMENS AG/UB KWU DRW PROP_REF:SEG.31-09/20/05 00				
12	CN9065507019 IC LIN OPAMP SING OP07CP IC LIN OPAMP SING DIP 8P OP07CP OP07CP - ANALOG DEVICES BV OP07CNB - LINEAR TECHNOLOGY CORPORATION OP07CP - TEXAS INSTRUMENTS	50	NO	50	30.SEP.2023
13	CN9065542035 IC IF DAC 8 BIT 1408 IC LIN MC1408L AM1408L8 - ADVANCE MICRO DEVICES INC DAC0808LCJ - NATIONAL SEMICONDUCTORS DAC0808LCN - NATIONAL SEMICONDUCTORS	139	NO	139	30.SEP.2023
14	CN9065547010 IC LIN VOLTAGE REF 10V IC LIN LH0070-OH VOLREF TO-5 -55 TO 125øC 10V LH0070-0H - LINEAR TECHNOLOGY CORPORATION LT1031DCH - LINEAR TECHNOLOGY CORPORATION AD581JH - ANALOG DEVICES BV	50	NO	50	30.SEP.2023
15	CN9065577050 IC LIN OPAMP QUAD LM108AH IC LIN OPAMP QUAD TO-78 LM108AH LM108AH - LINEAR TECHNOLOGY CORPORATION LM108AH - NATIONAL SEMICONDUCTORS LM108AH - SGS THOMSON MICROELECTRONICS LM108AL - TEXAS INSTRUMENTS PM1008AJ - PRECISION MONOLYTHIC INC LM108AT - INTERSIL INC	135	NO	135	30.SEP.2023
16	CN9065701010 IC MP PROGRAMMABLE INTRVL TIMR 82C54	420	NO	420	30.SEP.2023

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	IC MP P82C54-2N				
	CMS				
	P82C54-2N - ADVANCE MICRO DEVICES INC				
	P82C54-2 - INTEL CORPORATION				
	M082C54-2 - OKI SEMICONDUCTORS.				
	CN9065702016 IC MP COMMUNICATION IF 8251A	20	NO	20	30.SEP.2023
17	IC MP P8251A	20	110	20	00.021 .2020
1,	NMOS				
	P8251A - ADVANCE MICRO DEVICES INC				
	P8251A - INTEL CORPORATION				
	D71051C - NEC CORP				
	UPD8251A - NEC CORP				
	UPD8251AC - NEC CORP				
	CN9065704019 IC MP COMMUNICATION CONTROLLER 9902	110	NO	110	30.SEP.2023
18	IC MP COMMUNICATIONS CONTROLLER		110		00.021 .2020
	TMS9902ANL				
	ICS TO BE 100% INSPECTED FOR FUNCTION-				
	ALITY. DEFECTIVE ICS TO BE REPLACED BY				
	THE VENDOR.				
	TMS9902ANL - TEXAS INSTRUMENTS				
	DRW PROP_REF:TEX.25-08/29/06 00				
	CN9065705015 IC MP MICROCONTROLLER 8 BIT 9995	305	NO	305	30.SEP.2023
19	IC MICROCOMPUTER TMS9995NL-12				
	ALL ICs TO BE TESTED FOR FULL FUNCTIONALITY				
	DURING BHEL-GI QUALITY INSPECTION STAGE.				
	ICs WHICH ARE PASSING THE TEST ONLY TO BE				
	ACCEPTED.				
	REST TO BE REJECTED.				
	REJECTED ICs TO BE REPLACED BY THE VENDOR				
	TMS9995NL-12 - TEXAS INSTRUMENTS				
	TMS9995JDL-12 - TEXAS INSTRUMENTS				
	CN9065713026 IC MP MOTHER BOARD CLK GENERATOR 82284	150	NO	150	30.SEP.2023
20	IC MP P82284-6				
	D82284-6 - INTEL CORPORATION				
	P82284-6 - INTEL CORPORATION				
	SAB82284-P - (DELETED)				
	CN9065714014 IC MP NMS 82288	140	NO	140	30.SEP.2023
21	IC MP P82288				
	NMS				
	P82288 - INTEL CORPORATION				

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	P82288-8 - INTEL CORPORATION				
	D82288 - INTEL CORPORATION				
	D82288-8 - INTEL CORPORATION				
	M82288 - INTEL CORPORATION				
	M82288-8 - INTEL CORPORATION				
	CN9065809015 IC DGTL CMS QUAD 2 I/P NOR GATE 4001B	30	NO	30	30.SEP.2023
22	IC DGTL CD4001BE				
	CMS				
	CD4001BE - HARRIS SEMICONDUCTOR				
	MC14001BCP - ON SEMI CONDUCTOR				
	CD4001BCN - NATIONAL SEMICONDUCTORS				
	CD4001BE - TEXAS INSTRUMENTS				
	CD4001BCN - ON SEMI CONDUCTOR				
	CN9065843019 IC DGTL FZH115B	50	NO	50	30.SEP.2023
23	IC DGTL FZH115B				
	FZH115 - EPCOS AG				
	FZH115B - EPCOS AG				
	CN9065886001 IC DGTL FZK105	100	NO	100	30.SEP.2023
24	IC DGTL FZK105				
	FZK105 - EPCOS AG				
	DRW PROP_REF:SIB.28-06/05/04 00				
	DRW PROP_REF:SIB.5-09/07/06 00				
	CN9065902031 IC DGTL TTL QUAD 2 I/P NAND GATE 74LS00	140	NO	140	30.SEP.2023
25	IC DGTL SN74LSOON				
	SN74LS00N - TEXAS INSTRUMENTS				
	SN74LS00N - ON SEMI CONDUCTOR				
	DM74LS00N - ON SEMI CONDUCTOR				
	CN9065903046 IC DGTL TTL QUAD 2 I/P AND GATE 74LS08	600	NO	600	30.SEP.2023
26	IC DGTL SN74LS08N				
	SN74LS08N - TEXAS INSTRUMENTS				
	SN74LS08N - ON SEMI CONDUCTOR				
	DM74LS08N - ON SEMI CONDUCTOR	100		155	
	CN9065903054 IC DGTL TTL QUAD 2 I/P AND GATE 74S08	120	NO	120	30.SEP.2023
27	IC DGTL SN74S08N				
	74S08PC - NATIONAL SEMICONDUCTORS				
	N74S08N - SIGNATIC CORPORATION				
	SN74S08N - TEXAS INSTRUMENTS				
	74S08PC - ON SEMI CONDUCTOR	40	370	40	00.055.000
	CN9065904034 IC DGTL TTL TRPL 3 I/P NAND GATE 74LS10	40	NO	40	30.SEP.2023
28	IC DGTL 3 I/P NAND				
	PDIP-14				

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	SN74LS10N				
	SN74LS10N - TEXAS INSTRUMENTS				
	SN74LS10N - ON SEMI CONDUCTOR				
	DM74LS10N - ON SEMI CONDUCTOR				
	CN9065907025 IC DGTL TTL QUAD 2 I/P OR GATE 74LS32	20	NO	20	30.SEP.2023
29	IC DGTL SN74LS32N				
	SN74LS32N - TEXAS INSTRUMENTS				
	SN74LS32N - ON SEMI CONDUCTOR				
	DM74LS32N - ON SEMI CONDUCTOR				
	CN9065908137 IC DGTL TTL DUAL D FF 74LS74	1,060	NO	1,060	30.SEP.2023
30	IC DGTL SN74LS74N				
	SN74LS74AN - TEXAS INSTRUMENTS				
	SN74LS74AN - ON SEMI CONDUCTOR				
	DM74LS74N - ON SEMI CONDUCTOR				
	CN9065908145 IC DGTL TTL DUAL D FF 74S74	120	NO	120	30.SEP.2023
31	IC DGTL SN74S74N				
	DM74S74N - NATIONAL SEMICONDUCTORS				
	N74S74N - SIGNATIC CORPORATION				
	SN74S74N - TEXAS INSTRUMENTS				
	N74S74N - PHILIPS SEMICONDUCTORS / NXP DM74S74N - ON SEMI CONDUCTOR				
	CN9065913033 IC DGTL TTL HEX INVERTER 74LS04	350	NO	350	30.SEP.2023
32	IC IF SN74LS04N	330	NO	330	30.3L1 .2023
52	SN74LS04N - TEXAS INSTRUMENTS				
	SN74LS04N - ON SEMI CONDUCTOR				
	DM74LS04N - ON SEMI CONDUCTOR				
	CN9065914048 IC DGTL TTL HEX INVERTER 74LS05	725	NO	725	30.SEP.2023
33	IC IF SN74LS05N				
	SN74LS05N - TEXAS INSTRUMENTS				
	SN74LS05N - ON SEMI CONDUCTOR				
	DM74LS05N - ON SEMI CONDUCTOR				
	CN9065921001 IC IF TTL OCT BUFFER 74LS244	120	NO	120	30.SEP.2023
34	IC DGTL SN74LS244N				
	SN74LS244N - TEXAS INSTRUMENTS				
	SN74LS244N - ON SEMI CONDUCTOR				
	DM74LS244N - ON SEMI CONDUCTOR				
	CN9065985026 IC IF TTL HEX INVRTR SCHMT TRG 74LS14	240	NO	240	30.SEP.2023
35	IC IF SN74LS14N				
	SN74LS14N - TEXAS INSTRUMENTS				
	SN74LS14N - ON SEMI CONDUCTOR				
	DM74LS14N - ON SEMI CONDUCTOR				
	CN9065994025 IC IF TTL QUAD INV-BUFFER 74LS38	140	NO	140	30.SEP.2023

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36	IC DGTL SN74LS38N SN74LS38N - TEXAS INSTRUMENTS SN74LS38N - ON SEMI CONDUCTOR DM74LS38N - ON SEMI CONDUCTOR				
37	CN9065997016 IC DGTL TTL AND-OR-INV GATE 74LS51 IC DGTL SN74LS51N T74LS51-B1/D1 - SGS THOMSON MICROELECTRONICS TEXAS INSTRUMENTS	105	NO	105	30.SEP.2023
38	CN9066006021 IC DGTL TTL DUAL JK FF 74LS112 IC DGTL SN74LS112AN SN74LS112AN - TEXAS INSTRUMENTS SN74LS112AN - ON SEMI CONDUCTOR DM74LS112AN - ON SEMI CONDUCTOR	300	NO	300	30.SEP.2023
39	CN9066013028 IC DGTL TTL 3TO8 LINE DECDR 74S138 IC DGTL SN74S138N SN74S138AN - TEXAS INSTRUMENTS SN74S138N - TEXAS INSTRUMENTS N74S138N - PHILIPS SEMICONDUCTORS / NXP 74S138 - ON SEMI CONDUCTOR	400	NO	400	30.SEP.2023
40	CN9066023023 IC DGTL TTL QUAD D FF 74S175 IC DGTL SN74S175N SN74S175N - TEXAS INSTRUMENTS 74S175N - SIGNATIC CORPORATION DM74S175N - NATIONAL SEMICONDUCTORS DM74S175N - ON SEMI CONDUCTOR	40	NO	40	30.SEP.2023
41	CN9066023031 IC DGTL TTL QUAD D FF 74LS175 IC DGTL SN74LS175N QUAD D-FF PDIP-16 SN74LS175N - TEXAS INSTRUMENTS DRW PROP_REF:TEX.32-08/29/06 00	550	NO	550	30.SEP.2023
42	CN9066039019 IC IF TTL OCT BUFFER 74LS240 IC IF SN74LS240N SN74LS240N - TEXAS INSTRUMENTS SN74LS240N - ON SEMI CONDUCTOR DM74LS240N - ON SEMI CONDUCTOR	320	NO	320	30.SEP.2023
43	CN9066052090 IC DGTL TTL QUAD SR LATCH 74LS279 IC DGTL SN74LS279AN SN74LS279AN - TEXAS INSTRUMENTS SN74LS279N - ON SEMI CONDUCTOR DM74LS279N - ON SEMI CONDUCTOR	210	NO	210	30.SEP.2023
	CN9066058013 IC DGTL TTL DUAL BINARY CNTR 74LS393	100	NO	100	30.SEP.2023

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44	IC DGTL SN74LS393N SN74LS393N - TEXAS INSTRUMENTS				
45	CN9066059010 IC DGTL TTL OCT D-LATCH 74LS373 IC DGTL SN74LS373N SN74LS373N - TEXAS INSTRUMENTS	230	NO	230	30.SEP.2023
46	CN9066060018 IC DGTL TTL OCT D FF 74LS374 IC DGTL SN74LS374N SN74LS374N - TEXAS INSTRUMENTS SN74LS374N - ON SEMI CONDUCTOR DM74LS374N - ON SEMI CONDUCTOR	1,020	NO	1,020	30.SEP.2023
47	CN9066067128 IC DGTL HCMS TRPL 3 I/P NOR GATE 74HC27 IC DGTL SN74HC27N CD74HC27E - TEXAS INSTRUMENTS SN74HC27N - TEXAS INSTRUMENTS MC74HC27N - ON SEMI CONDUCTOR HD74HC27P - HITACHI LTD. 74HC27N - PHILIPS SEMICONDUCTORS / NXP MM74HC27N - ON SEMI CONDUCTOR	200	NO	200	30.SEP.2023
48	CN9066067250 IC DGTL HCMS QUAD 2 I/P XOR GATE 74HC86 IC DGTL SN74HC86N CMS 74HC86N - PHILIPS SEMICONDUCTORS / NXP CD74HC86E - TEXAS INSTRUMENTS SN74HC86N - TEXAS INSTRUMENTS MC74HC86N - ON SEMI CONDUCTOR MM74HC86N - ON SEMI CONDUCTOR	100	NO	100	30.SEP.2023
49	CN9066067357 IC DGTL HCMS 3T08 LINE DECDR 74HC138 IC DGTL SN74HC138N CMS 74HC138N - PHILIPS SEMICONDUCTORS / NXP CD74HC138E - TEXAS INSTRUMENTS SN74HC138N - TEXAS INSTRUMENTS MC74HC138AN - ON SEMI CONDUCTOR MM74HC138N - ON SEMI CONDUCTOR	200	NO	200	30.SEP.2023
50	CN9066067462 IC DGTL HCMS 4 BIT BINARY CNTR 74HC163 IC DGTL SN74HC163N CMS 74HC163N - PHILIPS SEMICONDUCTORS / NXP CD74HC163E - TEXAS INSTRUMENTS	30	NO	30	30.SEP.2023

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	SN74HC163N - TEXAS INSTRUMENTS				
	MC74HC163AN - ON SEMI CONDUCTOR				
	MM74HC163N - ON SEMI CONDUCTOR				
	CN9066067608 IC IF HCMS OCT BUFFER 74HC241	80	NO	80	30.SEP.2023
51	IC DGTL SN74HC241N				
	CMS				
	74HC241N - PHILIPS SEMICONDUCTORS / NXP				
	CD74HC241E - TEXAS INSTRUMENTS				
	SN74HC241N - TEXAS INSTRUMENTS				
	MC74HC241AN - ON SEMI CONDUCTOR				
	MM74HC241N - ON SEMI CONDUCTOR				
	CN9066067632 IC IF HCMS OCT BUFFER 74HC244	100	NO	100	30.SEP.2023
52	IC DGTL SN74HC244N				
	CMS				
	CD74HC244E - TEXAS INSTRUMENTS				
	SN74HC244N - TEXAS INSTRUMENTS				
	MC74HC244AN - ON SEMI CONDUCTOR				
	74HC244N - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC244N - ON SEMI CONDUCTOR				
	CN9066071010 IC DGTL TTL QUAD 2 I/P NAND GATE 74AS00	390	NO	390	30.SEP.2023
53	IC DGTL SN74AS00N				
	DM74AS00N - NATIONAL SEMICONDUCTORS				
	SN74AS00N - TEXAS INSTRUMENTS				
	CN9066081015 IC DGTL HCMS 2 I/P NAND GATE 74HC00 SMD	900	NO	900	30.SEP.2023
54	IC DGTL HCMOS				
	MC74HC00AD, SMD				
	QUAD 2-I/P NAND SO				
	CD74HC00M - TEXAS INSTRUMENTS				
	SN74HC00D - TEXAS INSTRUMENTS				
	MC74HC00AD - ON SEMI CONDUCTOR				
	74HC00D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC00M - ON SEMI CONDUCTOR				
	CN9066081066 IC DGTL HCMS 2 I/P AND GATE 74HC08 SMD	100	NO	100	30.SEP.2023
55	IC DGTL HCMOS				
	MC74HC08AD, SMD				
	QUAD 2-I/P AND SO				
	CD74HC08M - TEXAS INSTRUMENTS				
	SN74HC08D - TEXAS INSTRUMENTS				
	MC74HC08AD - ON SEMI CONDUCTOR				
	74HC08D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC08M - ON SEMI CONDUCTOR				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PR No. 2606, Mysore Road Bangalore - 560026

PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFC
04.M

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

VENUE : SUB ASSLY PUR

PURCHASE FILE COPY

(for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CN9066081082 IC DGTL HCMS 3 I/P AND GATE 74HC11 SMD	300	NO	300	30.SEP.2023
56	IC DGTL HCMOS				
	MC74HC11D, SMD				
	TRIP 3-I/P AND SO				
	CD74HC11M - TEXAS INSTRUMENTS				
	74HC11D - PHILIPS SEMICONDUCTORS / NXP				
	SN74HC11D - TEXAS INSTRUMENTS				
	CN9066081139 IC DGTL HCMS 2 I/P OR GATE 74HC32 SMD	700	NO	700	30.SEP.2023
57	IC DGTL HCMOS				
	MC74HC32AD, SMD				
	QUAD 2-I/P OR SO				
	CD74HC32M - TEXAS INSTRUMENTS				
	MC74HC32AD - ON SEMI CONDUCTOR				
	74HC32D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC32M - ON SEMI CONDUCTOR				
	CN9066081155 IC DGTL HCMS DUAL D FF 74HC74 SMD	4,800	NO	4,800	30.SEP.2023
58	IC DGTL HCMOS				
	MC74HC74AD, SMD				
	DUAL D-F/F				
	CD74HC74M - TEXAS INSTRUMENTS				
	MC74HC74AD - ON SEMI CONDUCTOR				
	74HC74D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC74AM - ON SEMI CONDUCTOR				
	CN9066081171 IC DGTL HCMS MAGNTD CMPRTR 74HC85 SMD	760	NO	760	30.SEP.2023
59	IC DGTL HCMOS				
	PC74HC85T SMD, SMD				
	4-BIT MAG COMP SO				
	CD74HC85M - TEXAS INSTRUMENTS				
	74HC85D - PHILIPS SEMICONDUCTORS / NXP				
	CN9066081236 IC IF HCMS NAND SCHMT TRG 74HC132 SMD	1,428	NO	1,428	30.SEP.2023
60	IC DGTL HCMOS				
	MC74HC132AD SMD, SMD				
	QUAD2I/P NAND SCH SO				
	CD74HC132M - TEXAS INSTRUMENTS				
	SN74HC132D - TEXAS INSTRUMENTS				
	MC74HC132AD - ON SEMI CONDUCTOR				
	74HC132D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC132M - ON SEMI CONDUCTOR				
	CN9066081279 IC DGTL HCMS 2-4 LINE DECDR 74HC139 SMD	800	NO	800	30.SEP.2023
61	IC DGTL HCMOS				
	MC74HC139AD, SMD				
	DUAL 2-4DEMUX SO				
	CD74HC139M - TEXAS INSTRUMENTS				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	MC74HC139AD - ON SEMI CONDUCTOR				
	MC74HC139AG - ON SEMI CONDUCTOR				
	74HC139D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC139M - ON SEMI CONDUCTOR				
62	CN9066081597 IC DGTL HCMS BINARY CNTR 74HC393 SMD IC DGTL HCMOS MM74HC393M, SMD DUAL 4BIT RIP COU SO CD74HC393M - TEXAS INSTRUMENTS 74HC393D - PHILIPS SEMICONDUCTORS / NXP SN74HC393D - TEXAS INSTRUMENTS	1,000	NO	1,000	30.SEP.2023
63	CN9066081716 IC DGTL HCMS MAGNTD COMPRTR 74HC688 SMD IC DGTL HCMOS MC74HC688DW, SMD 8BIT MAG COMP SO CD74HC688M - TEXAS INSTRUMENTS MC74HC688DW - ON SEMI CONDUCTOR 74HC688D - PHILIPS SEMICONDUCTORS / NXP MM74HC688WM - ON SEMI CONDUCTOR	1,300	NO	1,300	30.SEP.2023
64	CN9066081880 IC DGTL HCMS MONOSTABLE MV 74HC4538 SMD IC DGTL HCMOS MC74HC4538AD, SMD DUAL MONOSHOT RET SO OEM PACKING ONLY DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE CD74HC4538M - TEXAS INSTRUMENTS MC74HC4538AD - ON SEMI CONDUCTOR MM74HC4538M - ON SEMI CONDUCTOR	400	NO	400	30.SEP.2023
65	CN9066082046 IC DGTL HCMS 2 I/P OR GATE 74HCT32 SMD DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF DEVIATION FROM THE ABOVE.	100	NO	100	30.SEP.2023

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CD74HCT32M - TEXAS INSTRUMENTS				
	74HCT32D - NEXPERIA				
	CN9066212055 IC IF TTL QUAD LINE RECVR 26LS32	100	NO	100	30.SEP.2023
66	IC IF DS26LS32CN				
	AM26LS32PC				
	AM26LS32ACN - TEXAS INSTRUMENTS				
	AM26LS32CN - TEXAS INSTRUMENTS				
	CN9066223049 IC MP NMS INTERRUPT CONTROLLER 8259	52	NO	52	30.SEP.2023
67	IC MP 8259A			_	
	NMS				
	P8259A - INTEL CORPORATION				
	UPD8259AC - NEC CORP				
	CN9066225106 IC MP 8 BIT BUS TRANSCVR 8287	110	NO	110	30.SEP.2023
68	IC MP P8287				
	D8287 - ADVANCE MICRO DEVICES INC				
	P8287 - ADVANCE MICRO DEVICES INC				
	P8287 - INTEL CORPORATION				
	D71087C - NEC CORP				
	UPB8287C - NEC CORP				
	UPB8287D - NEC CORP				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	UPD71087C - NEC CORP				
69	CN9066243015 IC MEM NMS EPROM 16K*8 27128 IC MEM AM27128A-1DC AM27128A-1DC - ADVANCE MICRO DEVICES INC AM27C128-120DC - ADVANCE MICRO DEVICES INC AM27C128-150DC - ADVANCE MICRO DEVICES INC D27128A-1 - INTEL CORPORATION TMS27C128-15JL - TEXAS INSTRUMENTS	240	NO	240	30.SEP.2023
70	CN9066249056 IC MEM CMS RAM 8K*8 6264 IC MEM RAM CMOS 8K*8 150NS PDIP-28 HM6264LP-15 MD8464-15LP - FUJITSU COMPUTERS (SINGAPORE) HM-6264LP-15 - HITACHI LTD. TC5565PL-15 - TOSHIBA CORPORATION	220	NO	220	30.SEP.2023
71	CN9066305240 IC DGTL TTL DUAL 2TO4 LINE DECDR 74LS155 IC IF SN74LS155N N74LS155N - SIGNATIC CORPORATION SN74LS155AN - TEXAS INSTRUMENTS SN74LS155N - ON SEMI CONDUCTOR 74LS155PC - ON SEMI CONDUCTOR DM74LS155N - ON SEMI CONDUCTOR	270	NO	270	30.SEP.2023
72	CN9066306599 IC IF TTL OCT BUFFER 74S244 IC IF SN74S244N AM74S244PC - ADVANCE MICRO DEVICES INC N74S244N - SIGNATIC CORPORATION SN74S244N - TEXAS INSTRUMENTS DM74S244N - ON SEMI CONDUCTOR	50	NO	50	30.SEP.2023
73	CN9066314010 IC IF DAC 12 BIT 80 IC IF ADDAC80DCBIV AD/DAC/80D-CBIV - ANALOG DEVICES BV DAC800-CBI-V - TEXAS INSTRUMENTS	43	NO	43	30.SEP.2023
74	CN9066317035 IC LIN ANALOG SWITCH DUAL DG200ABK IC LIN SWITCH DUAL DIP 14C HI1-200-5 HI1-200-5 - INTERSIL INC DG200ACJ+ - MAXIM INTEGRATED PRODS INC DG200BDJ-E3 - VISHAY INTER TECHNOLOGY ASIA PTE. L	20	NO	20	30.SEP.2023
75	CN9066321016 IC IF ADC 12 BIT 0085 IC IF ADC85CQ12-5 ADADC85C-12 - ANALOG DEVICES BV	10	NO	10	30.SEP.2023

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	ADADC85-12 - ANALOG DEVICES BV				
	ADCHX12BMC - C & D TECHNOLOGIES (DATEL) INC.				
76	CN9066324015 IC LIN ANALOG MUX DUAL 8CH HI1-0507-5 IC LIN SWITCH SING DIP 28C HI1-0507-5	21	NO	21	30.SEP.2023
	ADG507AKN - ANALOG DEVICES BV IH6216CPI - INTERSIL INC HI1-0507-5 - INTERSIL INC HI1-507A-5 - TEXAS INSTRUMENTS DG507ACJ - VISHAY INTER TECHNOLOGY ASIA PTE. L				
77	CN9066328010 IC IF TTL DUAL LINE DRVR 3691 IC IF DS3691M	144	NO	144	30.SEP.2023
	DS3691M/NOPB - TEXAS INSTRUMENTS				
78	CN9066329017 IC DGTL TTL DATA SELECTOR 74S251 IC IF SN74S251N SN74S251N - TEXAS INSTRUMENTS DRW PROP_REF:TEX.9-08/29/06 00	20	NO	20	30.SEP.2023
79	CN9066330015 IC IF TTL QUAD LINE RECVR 98934 IC-IF-SN98934N C1489A - NATIONAL SEMICONDUCTORS MC1489AL - SGS THOMSON MICROELECTRONICS MC1489AF - SGS THOMSON MICROELECTRONICS MC1489AN - SGS THOMSON MICROELECTRONICS SN75189AJ - TEXAS INSTRUMENTS SN98934N - TEXAS INSTRUMENTS MC1489AL - ON SEMI CONDUCTOR MC1489AP - ON SEMI CONDUCTOR MC1489AL - FREE SCALE SEMI CONDUCTOR MC1489AP - FREE SCALE SEMI CONDUCTOR	150	NO	150	30.SEP.2023
80	CN9066411031 IC MEM NMS EPROM 32K*8 27256 IC MEM ID27C256-2 CMS AM27C256-120DC - ADVANCE MICRO DEVICES INC HN27C256G-25 - HITACHI LTD. 27C256-25 - INTEL CORPORATION M27C256-25F1 - SGS THOMSON MICROELECTRONICS M27C256B-12F1 - SGS THOMSON MICROELECTRONICS TMS27C256-12JL - TEXAS INSTRUMENTS TMS27C256-25JL - TEXAS INSTRUMENTS FM27C256Q150 - ON SEMI CONDUCTOR	211	NO	211	30.SEP.2023

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CN9066419024 IC MEM TTL PROM 2K*8 76161	90	NO	90	30.SEP.2023
81	IC MEM HM3-76161-5				
	AM27S191DC - ADVANCE MICRO DEVICES INC				
	HM3-76161-5 - INTERSIL INC				
	CN9066438100 IC MEM MOS NVRAM 256*4 2212	300	NO	300	30.SEP.2023
82	IC MEM NVRAM				
	256*4 CERDIP-18				
	X2212D				
	X2212D - XICOR INC				
	X22C12D - XICOR INC				
	X22C12P - XICOR INC				
	DRW PROP_REF:XCR.2-12/30/05 00				
	DV0688160019 FEET FIXING KIT - LEM SENSOR	1,515	NO	1,515	30.SEP.2023
83	Feet Fixing kit for LEM sensor vertical mounting				
	93.34.63.100.0 - LEM International SA				
	DV0688160027 CURRENT TRANSDUCER 1000A/250mA	1,405	NO	1,405	30.SEP.2023
84	Current Sensor 1000A				
	Primary Current Nominal: 1000A rms				
	Secondary Current: 250mA rms				
	Supply Voltage +/- 15V to +/- 24V				
	DITEL'C' DC40/2202 DEV 00				
	BHEL specification: PS4062392 REV 00				
	LTC 1000 - S/SP1 - LEM International SA				
	HED1K0T02-CB11 - ELECTROHMS PRIVATE LIMITED				
		420	170	400	00.050.000
	DV0688170935 TRANSDUCER SHUNT 250V/50MA 12/24VDC	136	NO	136	30.SEP.2023
85	VOLTAGE TRANSDUCER 250V/50mA (nominal),				
	+,- 12/24VDC SUPPLY VOLTAGE.				
	AV100-250 - LEM International SA DVL 250 - LEM International SA				
		700	170	700	00.050.000
0.0	DV0688170943 TRANSDUCER SHUNT 750V/50MA 12/24VDC	736	NO	736	30.SEP.2023
86	VOLTAGE TRANSDUCER 750V/50mA (nominal),				
	+,- 12/24VDC SUPPLY VOLTAGE.				
	AV100-750 - LEM International SA DVL 750 - LEM International SA				
		500		500	
	DV0688170960 TRANSDUCER SHUNT 2800V/50MA	538	NO	538	30.SEP.2023
87	VOLTAGE TRANSDUCER				
	2800V/50mA (nominal).				
	DV 2800/SP4 - LEM International SA	750	3	750	
	DV0688170994 TRANSDUCER SHUNT 300A/150MA	756	NO	756	30.SEP.2023
88	CURRENT TRANSDUCER 300A/150mA (nominal),				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	+/-15VDC SUPPLY VOLTAGE.				
	LAC 300-S/SP1 - LEM International SA				
89	DV0688171001 TRANSDUCER SHUNT 400A/80MA CURRENT TRANSDUCER 400A/80mA (nominal), +/-15VDC SUPPLY VOLTAGE. LAC 300-S/SP3 - LEM International SA	1,056	NO	1,056	30.SEP.2023
90	DV0688172741 Current Transducer 1:4000 LEM Current Transducer 1000A:250mA LTC 1000-S/SP1 - LEM International SA	5,142	NO	5,142	30.SEP.2023
91	DV0692030093 IC DGTL HCMOS DECADE CNTR 74HC390 SMD IC DIGTL HCMOS SO-16 DUAL DECADE RIPPLE COUNTER DATE CODE CLAUSE: DATE CODE OF THE ITEMS SUPPLIED SHALL BE LESS THAN OR EQUAL TO 30 MONTHS FROM THE PO DATE. PRIOR APPROVAL TO BE TAKEN BY VENDOR IN CASE OF ANY DEVIATION FROM THIS CLAUSE. 74HC390D - PHILIPS SEMICONDUCTORS / NXP CD74HC390M - TEXAS INSTRUMENTS MC74HC390ADG - ON SEMI CONDUCTOR M74HC390RM13 - SGS THOMSON MICROELECTRONICS Test Certificate	1,000	NO	1,000	30.SEP.2023
92	DV0692030425 IC LIN MULTIPLIER 1 % AD534SH IC LIN MULTIPLIER 1 %, TO-100 AD534SH AD534SH - ANALOG DEVICES BV AD534JHZ - ANALOG DEVICES BV	47	NO	47	30.SEP.2023
93	DV0692030441 OPTOCOUPLER VO610A OPTOCOUPLER VO610A SMD-4 VO610A-1X019T - VISHAY INTER TECHNOLOGY ASIA PTE. L	1,000	NO	1,000	30.SEP.2023
94	DV0692030485 IC ANALOG SW QUAD SPST SMD SOIC-16 SWITCH SO-16 ADG201HSKR DATE CODE CLAUSE: DATE CODE OF THE ITEMS SUPPLIED SHALL BE LESS THAN OR EQUAL TO 24 MONTHS FROM THE INVOICE DATE. PRIOR APPROVAL TO BE TAKEN BY VENDOR IN CASE OF ANY DEVIATION FROM THIS CLAUSE. HI6-0201HS-5 - MAXIM INTEGRATED PRODS INC		NO	500	30.SEP.2023

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DG201HSDY-E3 - VISHAY INTER TECHNOLOGY ASIA PTE. L				
95	DV0692030493 IC CMOS TRIPLE 3 I/P OR GATE SOIC14 SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. TO BE SUPPLIED IN OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. CD4075BM - TEXAS INSTRUMENTS		NO	100	30.SEP.2023
96	DV0692030592 IC ANALOG MUX SOIC-28 ROHS DEVICE WITH BACKWARD COMPATIBILITY OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 30 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. ADG506AKRZ - ANALOG DEVICES BV		NO	244	30.SEP.2023
97	DV0692031049 DIP Switches SPST slide TH SPST Through Hole 1 position slide actuator type switch 5161390-1 - TYCO ELECTRONICS MIDDLE EAST FZE	1,526	NO	1,526	30.SEP.2023
98	DV0692221743 IC-HCMS QUAD 2 I/P NOR GATE 74HC02 SMD IC-HCMOS*74HC02 *S MC74HC02ADR2 DRG:HETN400790P0072 MC74HC02ADR2 - ON SEMI CONDUCTOR SN74HC02D - TEXAS INSTRUMENTS MM74HC02MX - ON SEMI CONDUCTOR	351	NO	351	30.SEP.2023
99	DV0692221816 IC-HCMS OCT TS BUFER 74HC244 SMD IC-HCMOS*74HC244*S MC74HC244ADWR2 DRG:HETN400790P0392 PACKING DETAILS: TAPE & REEL SN74HC244DW - TEXAS INSTRUMENTS MC74HC244ADWR2 - ON SEMI CONDUCTOR 74HC244D - PHILIPS SEMICONDUCTORS / NXP	400	NO	400	30.SEP.2023
100	DV0692222170 IC AMPLIFIER SMD OP177G LT1097S8(T+R) IC-AMPLIFIER*OP177G*S LT1097S8(T+R) DRG:HETN400911P0005	4,575	NO	4,575	30.SEP.2023

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	PACKING DETAILS: TAPE & REEL OP177GSZ - ANALOG DEVICES BV OPA177GS - TEXAS INSTRUMENTS LT1097S8(T+R) - LINEAR TECHNOLOGY CORPORATION				
101	DV0692222251 IC-HCMS HEX SCMT TRGR 74HCT14 SMD IC-HCMOS*74HCT14*S 74HCT14T DRG:HETN400791P0352 PACKING DETAILS: TAPE & REEL	600	NO	600	30.SEP.2023
	74HCT14D - PHILIPS SEMICONDUCTORS / NXP DRW PROP_REF:PHL.22-12/01/05 00				
102	DV0692222278 IC-HCMS QUAD TS NONINV BFR 74HC126 SMD IC-HCMOS*74HC126 *S MC74HC126ADR2	300	NO	300	30.SEP.2023
	DRG:HETN400790P0672 MC74HC126ADR2 - ON SEMI CONDUCTOR MM74HC126M - NATIONAL SEMICONDUCTORS SN74HC126D - TEXAS INSTRUMENTS 74HC126D - PHILIPS SEMICONDUCTORS / NXP MM74HC126M - ON SEMI CONDUCTOR				
103	DV0692222332 IC-PROC:16MHZ TN80C196KC SMD IC-PROC:16MHZ *S TN80C196KC DRG:HETN400868P0006 TN80C196KC - INTEL CORPORATION DRW PROP_REF:INT.19-01/23/06 00	310	NO	310	30.SEP.2023
104	DV0692222340 IC-HCMS QUAD 2 I/P NANDGATE 74HCT00 SMD IC-HCMOS*74HCT00 *S 74HCT00T DRG:HETN400791P0192 74HCT00D - PHILIPS SEMICONDUCTORS / NXP	200	NO	200	30.SEP.2023
105	DV0692222510 IC-QUAD LOW OFF OPAMP OP400HS SMD IC LINEAR QUAD OP-AMP OP400HSZ DRG:HETT402517P0007	517	NO	517	30.SEP.2023
	PACKING DETAILS: TUBE WITH 47 ICS				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ DATE : 04.MAY.2023

RFQ NUMBER:

CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

PURCHASE FILE COPY

(for all correspondence)

Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	OP400HSZ - ANALOG DEVICES BV				
106	DV0692229027 IC TRANS 74HCT245D SMD IC TRANS SMD 74HCT245D HETN400791P0072 74HCT245D - PHILIPS SEMICONDUCTORS / NXP	300	NO	300	30.SEP.2023
107	DV0692302735 IC 8 3-STAT NON INV BUFER/DRIVER SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MA PART NO: 082300 MC74HC244ADWR2G - ON SEMI CONDUCTOR	7,500	NO	7,500	30.SEP.2023
108	DV0692302816 IC MC 32-BIT W/RAM TQFP-144 SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. AS PER PS406450 DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MA PART NO: 082297 MC68332ACAG16 - PHILIPS SEMICONDUCTORS / NXP	1,500	NO	1,500	30.SEP.2023
109	DV0692303057 IC MEM FLASH 2 MBIT TSOP-48 SMD VALMET REF: 082460 OEM HUMIDITY SEALED TRAY PACKING ONLY. ACCEPTABLE DATE CODE IS 2010+ PRIOR APPROVAL TO BE TAKEN BY VENDOR IN CASE OF ANY DEVIATION FROM THIS CLAUSE.	2,532	NO	2,532	30.SEP.2023

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DATE CODE CLAUSE : DATE CODE OF THE				
	ITEMS SUPPLIED SHALL BE LESS THAN OR				
	EQUAL TO 30 MONTHS FROM THE PO DATE.				
	PRIOR APPROVAL TO BE TAKEN BY VENDOR IN				
	CASE OF ANY DEVIATION FROM THIS CLAUSE.				
	AM29F200BB-70ED - SPANSION HOLDINGS(SINGAPORE) PTE LT				
	AM29F200BB-70EF - SPANSION HOLDINGS(SINGAPORE) PTE LT				
	M29F200FB55N3E2(NUMONYX) - MICRON SEMICONDR ASIA				
	PACIFIC PVT L				
	M29F200FB55N6E2(NUMONYX) - MICRON SEMICONDR ASIA				
	PACIFIC PVT L		NO	40.222	00.050.000
110	DV0692303677 OPTOCOUPLER 4N35 DIP-6 ROHS DEVICE WITH BACKWARD COMPATIBILITY.	48,333	NO	48,333	30.SEP.2023
110	OEM PACKING ONLY.	40,000			
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	MA PART NO: 093065				
	4N35M - ON SEMI CONDUCTOR				
	4N36M - ON SEMI CONDUCTOR				
	DV0692305742 IC 3TO8 DECODER 74AC138 SOIC16 SMD	2,500	NO	2,500	30.SEP.2023
111	CD74AC138M				
	ROHS DEVICE WITH BACKWARD COMPATIBILITY				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE				
	MA PART NO: 293158				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

CKGOT00029 RFQ DATE: 04.MAY.2023

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MMI:PU:RF:003

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CD74AC138M96 - TEXAS INSTRUMENTS				
	MC74AC138DR2G - ON SEMI CONDUCTOR				
	74AC138SCX - ON SEMI CONDUCTOR				
112	DV0692305750 IC HEX INV SCHMT TGR 74HC14 SOIC14 SMD CD74HC14M	62,500	NO	62,500	30.SEP.2023
	ROHS DEVICE WITH BACKWARD COMPATIBILITY OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE				
	MA PART NO: 293166				
	CD74HC14M96 - TEXAS INSTRUMENTS SN74HC14DR - TEXAS INSTRUMENTS MC74HC14ADR2G - ON SEMI CONDUCTOR MM74HC14MX - ON SEMI CONDUCTOR MM74HC14MX - ON SEMI CONDUCTOR				
113	DV0692306250 IC HI SPEED OPTO- COUPLER SOIC-8 SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.	5,500	NO	5,500	30.SEP.2023
	MA PART NO: 047403				
	HCPL-0501-500E - BROADCOM LIMITED				
114	DV0692309544 IC SMD DUAL OPTO HCPL-0531 1MBD SOIC-8 ROHS DEVICE WITH BACKWARD COMPATIBILITY.	3,375	NO	3,375	30.SEP.2023
	OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	MA PART NO: 050384				
	HCPL-0531-500E - BROADCOM LIMITED				
	DV0692320040 IC HEX INV 74HCT14 SOIC14 SMD	633	NO	633	30.SEP.2023

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
115	DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN				
113	APPROVAL IS REQUIRED IN CASE OF				
	DEVIATION FROM THE ABOVE.				
	CD74HCT14M - TEXAS INSTRUMENTS				
	MC74HCT14ADG - ON SEMI CONDUCTOR				
	CD74HCT14ME4 - TEXAS INSTRUMENTS				
	MM74HCT14M - ON SEMI CONDUCTOR				
	74HCT14D - NEXPERIA				
	DV0692320067 IC OCT BUS TRANSCVR 74FCT245 SOIC20 SMD	444	NO	444	30.SEP.2023
116	DATE CODE TO BE LESS THAN 36 MONTHS				
	FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF				
	DEVIATION FROM THE ABOVE.				
	IDT74FCT245ATSOG - RENESAS TECHNOLOGY SINGAPORE				
	PTE. L				
	IDT74FCT245ATSOG8 - RENESAS TECHNOLOGY SINGAPORE				
	PTE. L DV0692320075 IC OCT D-LATCH 74FCT373 SOIC20 SMD	296	NO	296	30.SEP.2023
117	DATE CODE TO BE LESS THAN 36 MONTHS	290	NO	290	30.SEP.2023
117	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF				
	DEVIATION FROM THE ABOVE.				
	IDT74FCT373ATSOG - RENESAS TECHNOLOGY SINGAPORE				
	PTE. L				
	IDT74FCT373ATSOG8 - RENESAS TECHNOLOGY SINGAPORE				
	PTE. L	222		000	
110	DV0692320156 IC MP PPI 82C55A PLCC44 SMD	338	NO	338	30.SEP.2023
118	DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF				
	DEVIATION FROM THE ABOVE.				
	CS82C55A - RENESAS TECHNOLOGY SINGAPORE PTE. L				
	CS82C55AZ - RENESAS TECHNOLOGY SINGAPORE PTE. L				
110	DV0692320180 IC MP PROGRAMABLE TIMER 82C54 PLCC28 SMD	74	NO	74	30.SEP.2023
119	DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF				
	DEVIATION FROM THE ABOVE.				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CS82C54-10 - RENESAS TECHNOLOGY SINGAPORE PTE. L CS82C54-10Z - RENESAS TECHNOLOGY SINGAPORE PTE. L				
120	DV0692320210 IC LIN 4-20mA Input RCV420KP OEM PACKING ONLY DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE RCV420KP - TEXAS INSTRUMENTS	250	NO	250	30.SEP.2023
121	DV0692320881 OPTO COUPLER 6N137.S SMD DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF DEVIATION FROM THE ABOVE. 6N137-300E - BROADCOM LIMITED 6N137-500E - BROADCOM LIMITED	140	NO	140	30.SEP.2023
122	DV0692320903 IC LIN VOLT REG NEG FIX 15V MC79M15CDT OEM PACKING ONLY DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE MC79M15CDTG - ON SEMI CONDUCTOR	21	NO	21	30.SEP.2023
123	DV0692330086 IC FLASH 2MB 3.3V AM29LV200BT SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING IS PREFERRED. IN CASE OEM PACKING SUPPLY IS NOT POSSIBLE, ITEM TO BE SUPPLIED IN UNEXPIRED HUMIDITY SEALED TRAY, AS PER JEDEC GUIDELINES, FOR APPLICABLE MOISTURE SENSITIVITY LEVEL (MSL) DEFINED BY OEM. DATE CODE TO BE 2005+ FROM INVOICE DATE. PARTS ARE TO BE ORIGINAL, UNUSED AND FREE OF ANY PHYSICAL DAMAGE. REFURBISHED ICs WILL NOT BE ACCEPTABLE.	11	NO	11	30.SEP.2023
	BHEL'S WRITTEN APPROVAL IS				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

RFQ DATE:

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	REQUIRED IN CASE OF ANY DEVIATION				
	FROM THE ABOVE. MA PART NO: 082241				
	AM29LV200BT-70ED - SPANSION HOLDINGS(SINGAPORE) PTE				
	LT				
	DV0692330110 IC FPGA FLEX-6K16 2NS-3NS PQFP-208 SMD	1,080	NO	1,080	30.SEP.2023
124	OEM PACKING IS PREFERRED. IN CASE OEM				
	PACKING SUPPLY IS NOT POSSIBLE, ITEM				
	TO BE SUPPLIED IN HUMIDITY				
	SEALED TRAY PACKING AS PER JEDEC				
	GUIDELINES FOR MSL 3 ITEMS.				
	ORIGINAL ITEM TO BE SUPPLIED.				
	ACCEPTABLE DATE CODE IS 2013+.				
	MA PART NO: 082266				
	EPF6016QC208-2N - INTEL CORPORATION				
	EPF6016QC208-3N - INTEL CORPORATION				
	EPF6016QC208-2N - ALTERA CORPORATION				
	EPF6016QC208-3N - ALTERA CORPORATION				
	DRW PS406394 00				
	DV0692330137 IC OPTOCOUPLER SMD SOIC-8 PIN 10MBD SMD		NO	10,500	30.SEP.2023
125	ROHS DEVICE WITH BACKWARD COMPATIBILITY.	10,500			
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	144 P. P. P. P. P. C.				
	MA PART NO: 082264				
	HODE OOO FOOF DOOLDOOM INTED				
	HCPL-0600-500E - BROADCOM LIMITED	0.500		0.500	
	DV0692330145 IC QUAD COMPARATOR SOIC-14 LM339DR2G	2,500	NO	2,500	30.SEP.2023
126	SMD				
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE APOVE				
	IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	MA PART NO: 082207				
L	LM339DR2G - ON SEMI CONDUCTOR				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	LM339MXNOPB - TEXAS INSTRUMENTS				
127	DV0692330153 IC DUAL USB HI-SIDE PWR SW LM3526M SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MA PART NO: 082229	2,500	NO	2,500	30.SEP.2023
	LM3526MX-H NOPB - TEXAS INSTRUMENTS MIC2506YM-TR - MICROCHIP TECHNOLOGY LTD				
128	DV0692332090 IC monstable MV 74LS123 IC monstable MV 74LS123 SOIC package	50	NO	50	30.SEP.2023
	SN74LS123D - TEXAS INSTRUMENTS SN74LS123D - ON SEMI CONDUCTOR DM74LS123M - ON SEMI CONDUCTOR				
129	DV0692332138 IC Powermonitor 1231S IC Powermonitor 1231S SOIC package	50	NO	50	30.SEP.2023
	DS1231S-20+ - MAXIM INTEGRATED PRODS INC DS1231S-20N+ - MAXIM INTEGRATED PRODS INC				
130	DV0692332146 Quad peripheral drvr CA3262M Quad peripheral driver CA3262M SOIC package	219	NO	219	30.SEP.2023
	CA3262AM - INTERSIL INC				
131	DV0692332391 AC/DC CONVERTOR 50W 230V AC/48V DC 1.1A AC to DC convertor 1A 48V DC	25	NO	25	30.SEP.2023
	PBA50F-48-N - COSEL CO LTD LCW50US48 - XP POWER LIMITED				
132	DV0692332430 IC Octal Buffer 74LS240 SMD IC Octal Buffer 74LS240 SMD SOIC Package	50	NO	50	30.SEP.2023
	SN74LS240DW - MOTOROLA SEMICONDUCTORS INC SN74LS240DW - ON SEMI CONDUCTOR				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	SN74LS240DW - TEXAS INSTRUMENTS				
	DM74LS240WM - ON SEMI CONDUCTOR				
133	DV0692332596 IC SRAM 64Kx16 71016S12PHG TSOP II 44 S ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. 71016S12PHG - RENESAS TECHNOLOGY SINGAPORE PTE. L	1,628	NO	1,628	30.SEP.2023
	Test Certificate				
134	DV0692332723 IC CPLD MAXII EPM570T100C5N TQFP-100 S MA PART NO: 082601 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TRAY PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. EPM570T100C5N(TRAY) - INTEL CORPORATION	540	NO	540	30.SEP.2023
	Test Certificate				
135	DV0692332758 IC LINEAR REG. LTC3611 SMD QFN-64 MaxDNA PART REF: LD082571,A ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE	540	NO	540	30.SEP.2023
	LTC3611EWP#TRPBF - ANALOG DEVICES BV				
136	LTC3611EWP#PBF - ANALOG DEVICES BV DV0692333029 IC FPGA ARRIA EP2AGX45DF25 572 FBGA SMD MA PART NO: 082610 ROHS DEVICE WITH BACKWARD COMPATIBILITY. HUMIDITY SEALED TRAY PACKING FROM OEM ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN	671	NO	671	30.SEP.2023

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	EP2AGX45DF25I5G - INTEL CORPORATION				
	EP2AGX45DF25C5G - INTEL CORPORATION				
	Test Certificate				
137	DV0692333293 IC LDO ADJ LT3063EMS8E MSOP-8 SMD VALMET REF: 094293 DATE CODE TO BE LESS THAN 36 MONTHS OF THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION AS ABOVE. LT3063EMS8E#TRPBF - ANALOG DEVICES BV LT3063EMS8E#PBF - ANALOG DEVICES BV		NO	452	30.SEP.2023
138	DV0692333377 IC NAND GATE SN74LVC1G38DBV SOT23-5 SMD OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. BHEL'S RFQ MAY NOT BE WITH MULTIPLES OF SPQ, SINCE LISTED ACCEPTABLE PART NOS. HAVE VARYING STANDARD PACKING QUANTITIES(SPQS). VENDORS TO QUOTE APPROPRIATE NEAREST OEM SPQ CORRESPONDING TO THE QUOTED PART NO, TO MEET OEM PACKING SPECIFICATION. VALMET PART NO: 094129 SN74LVC1G38DBVR - TEXAS INSTRUMENTS "74LVC1G38GV,125" - NEXPERIA		NO	3,000	30.SEP.2023
139	DV0692333393 IC INV SN74LVC1G06DBV SOT23-5 SMD OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. BHEL'S RFQ MAY NOT BE WITH MULTIPLES OF SPQ, SINCE LISTED ACCEPTABLE PART NOS. HAVE VARYING STANDARD PACKING QUANTITIES(SPQS). VENDORS TO QUOTE APPROPRIATE NEAREST OEM SPQ CORRESPONDING TO THE QUOTED PART NO,		NO	3,000	30.SEP.2023

For and On behalf of BHEL.

Page 27 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

RFQ DATE : 04.MAY.2023

RFQ NUMBER:

CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

MMI:PU:RF:003

PURCHASE FILE COPY

(for all correspondence)

Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	TO MEET OEM PACKING SPECIFICATION.				
	VALMET PART NO: 094288				
	SN74LVC1G06DBVR - TEXAS INSTRUMENTS				
	74LVC1G06GV.125 - NEXPERIA				
	DV0692333419 RELAY SSR SPST SGL 0.6A SOP-4 SMD	563	NO	563	30.SEP.2023
140	OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM THE ABOVE.				
	VALMET PART NO: 094290				
	ASSR-1410-003E - BROADCOM LIMITED				
	DV0692333427 IC PWR MONITOR LTC1728 SOT23-5 SMD	600	NO	600	30.SEP.2023
141	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	VALMET PART NO: 094294				
	112M2111MC11(0.0012)1				
	LTC1728ES5-2.5#TRPBF - ANALOG DEVICES BV				
	LTC1728ES5-2.5#TRMPBF - ANALOG DEVICES BV				
	DV0692333435 IC PWR MONITOR LTC2960 SOT23-8 SMD	1,100	NO	1,100	30.SEP.2023
142	OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM THE ABOVE.				
	VALMET PART NO: 094295				
	LTC2960CTS8-1#TRMPBF - ANALOG DEVICES BV				
	LTC2960CTS6-1#TRIVIPBF - ANALOG DEVICES BV				
	DV0692334246 IC FPGA CYCLONE IV 328IO SMD 484-BGA	5	NO	5	30.SEP.2023
143	ITEM TO BE SUPPLIED IN HUMIDITY SEALED				
	PACKING AS PER APPLICABLE JEDEC GUIDELINES				
	FOR MSL 2 DACKING DATE CODE TO BE WITHIN 5				
	MSL 3 PACKING. DATE CODE TO BE WITHIN 5 YEARS FROM INVOICE DATE.				
	VALMET PART NO: 094321				
	EP4CE40F23C8N - INTEL CORPORATION				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

CKGOT00029

RFQ NUMBER:

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

VENUE : SUB ASSLY PUR

PURCHASE FILE COPY

(for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR

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Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	EP4CE40F23C8N - ALTERA CORPORATION				
144	DV0692340076 IC DIGITAL ISOLATOR ADuM1201BR SOIC8 S IC DIGITAL ISOLATOR ADuM1201BR SOIC8 S	719	NO	719	30.SEP.2023
	MA PART NO:#60101201,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 12 MONTHS FROM THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	ADUM1201BRZ - ANALOG DEVICES BV				
145	DV0692340114 IC DIGITAL ISOLATOR ADuM1400ARWZ SOW16 S IC DIGITAL ISOLATOR ADuM1400ARWZ SOW16 S	2,000	NO	2,000	30.SEP.2023
	MA PART NO:#60101402,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	ADUM3400ARWZ-RL - ANALOG DEVICES BV ADUM1400ARWZ-RL - ANALOG DEVICES BV				
146	DV0692340467 IC SINGLE INV SN74AHC1G04DBV SOT23-5 MA PART NO: 607001011,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. SN74AHC1G04DBVR - TEXAS INSTRUMENTS	9,000	NO	9,000	30.SEP.2023
147	DV0692340556 IC 2 I/P AND GATE SN74HC08D SOIC14 S MA PART NO: 60700806,0	27,500	NO	27,500	30.SEP.2023
	ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN	,			

For and On behalf of BHEL.

Page 29 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

RFQ DATE:

04.MAY.2023

15.MAY.2023 Time: 13:00 HRS

> VENUE : SUB ASSLY PUR

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E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SN74HC08DR - TEXAS INSTRUMENTS				
	MM74HC08MX - ON SEMI CONDUCTOR				
	DV0692340572 IC 3-8 DECODER SN74HC138D SOIC16 S	200	NO	200	30.SEP.2023
148	MA PART NO: 60713806,0				
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM PACKING ONLY.				
	DATE CODE TO BE LESS THAN 12 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SN74HC138D - TEXAS INSTRUMENTS				
	MM74HC138M - ON SEMI CONDUCTOR				
I I	DV0692340599 IC SHIFT REG SN74HC165PW TSSOP16 S	7,500	NO	7,500	30.SEP.2023
149	MA PART NO: 60716507,0				
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SN74HC165PWR - TEXAS INSTRUMENTS				
	74HC165PW,118 - PHILIPS SEMICONDUCTORS / NXP				
	"74HC165PW,118" - NEXPERIA				
	DV0692340602 IC DARLINGTON DRVR ULN2803ADW SOW18 S		NO	14,000	30.SEP.2023
150	MA PART NO: 60180301,0	14,000	110	1 1,000	00.021 1.2020
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	ULN2803ADWR - TEXAS INSTRUMENTS				
	ULN2803AFWG(C,ELHA) - TOSHIBA CORPORATION				
	TBD62083AFWG (TAPE & REEL) - TOSHIBA CORPORATION				
I I	DV0692342028 IC DIFF TRNSCVR SN65LBC176D SOIC8 S		NO	91,250	30.SEP.2023
151	MA PART NO: 60217612,0	91,250			
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

RFQ DATE: 04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

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Purchase Executive: CHANDRA KANT KUMAR

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E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. SN65LBC176DR - TEXAS INSTRUMENTS LTC485IS8#TRPBF - ANALOG DEVICES BV MAX485ESA+T - ANALOG DEVICES BV MAX485ESA+T - ANALOG DEVICES BV				
152	DV0692342044 IC SINGLE NAND SN74LVC1G00DBV SOT23-5 S MA PART NO:60900100,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. SN74LVC1G00DBVR - TEXAS INSTRUMENTS	52,500	NO	52,500	30.SEP.2023
153	DV0692342060 IC SINGLE AND SN74LVC1G08DBV SOT23-5 S MA PART NO: 60900800,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. SN74LVC1G08DBVR - TEXAS INSTRUMENTS	18,000	NO	18,000	30.SEP.2023
154	DV0692342141 IC IF RS232 TRANSC MAX3222EUP TSSOP20 S MA PART NO: 60100831,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. ADM3222ARUZ-REEL - ANALOG DEVICES BV ST3222BTR - SGS THOMSON MICROELECTRONICS MAX3222EUP+T - ANALOG DEVICES BV	5,000	NO	5,000	30.SEP.2023
155	DV0692342249 IC SER EEPROM 1K AT93C46DN SOIC 8 S MA PART NO: 60424621,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 12 MONTHS FROM INVOICE DATE.	12,000	NO	12,000	30.SEP.2023

For and On behalf of BHEL.

Page 31 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

RFQ DATE : 04.MAY.2023

RFQ NUMBER:

CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. CAT93C46VBI-GT3 - ON SEMI CONDUCTOR AT93C46DN-SH-T - MICROCHIP TECHNOLOGY LTD BR93G46FJ-3GTE2 - ROHM ELECTRONICS ASIA PTE LTD.				
156	DV0692342397 IC CPU 40MHz AT89C51RB2-RLTUM VQFP44 S MA PART NO: 60475220,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TRAY PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. AT89C51RB2-RLTUM - MICROCHIP TECHNOLOGY LTD	30,080	NO	30,080	30.SEP.2023
	DV0692342400 IC SDRAM MT48LC8M16A2P 133MHZ TSOP54 S MA PART NO: 60401681,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TRAY PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. IS42S16800F-7TLI (TRAY) - INTEGRATED SILICON SOLUTION INC.	5,184	NO	5,184	30.SEP.2023
158	DV0692343105 IC ANALOG OPAMP SMD LM258D MA PART NO: 60129711,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY.OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. LM258DT - SGS THOMSON MICROELECTRONICS LM258DR2G - ON SEMI CONDUCTOR LM258DRG4 - TEXAS INSTRUMENTS LM258DR - TEXAS INSTRUMENTS	7,500	NO	7,500	30.SEP.2023
159	DV0692343121 IC ANALOG SMD ADJ REG. LM317LD MA PART NO: 60131712,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL	41,250	NO	41,250	30.SEP.2023

For and On behalf of BHEL.

Page 32 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

RFQ DATE: 04.MAY.2023

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	IS REQUIRED IN CASE OF ANY DEVIATION				
	FROM THE ABOVE.				
	LM317LDR2G - ON SEMI CONDUCTOR				
	LM317LD13TR - SGS THOMSON MICROELECTRONICS				
	DV0692347127 IC ANALOG SMD LIN REG DPAK LM317MDT	75	NO	75	30.SEP.2023
160	MA PART NO: 60131715,0				
	OEM PACKING ONLY.				
	DATE CODE TO BE LESS THAN 36 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	LM317MDT/NOPB - NATIONAL SEMICONDUCTORS				
	LM317MDT-TR - SGS THOMSON MICROELECTRONICS				
	LM317MDTRKG - ON SEMI CONDUCTOR			50.050	
	DV0692347194 IC ANALOG SMD LIN REG 78L05	EC 250	NO	56,250	30.SEP.2023
161	MA PART NO: 60180537,0	56,250			
	OEM TAPE & REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 36 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	MC78L05ACDR2G - ON SEMI CONDUCTOR				
	LM78L05ACMX - TEXAS INSTRUMENTS				
	DV0692348921 OPTOCOUPLER SMD SFH6186-3T	9,000	NO	9,000	30.SEP.2023
162	POWERNET REF: 49200000	,		,	
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN				
	24 MONTHS FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SFH6186-3T - VISHAY INTER TECHNOLOGY ASIA PTE. L				
	PS2501L-1-A - RENESAS TECHNOLOGY SINGAPORE PTE. L				
	DV0692349537 IC SCHMT TRG SN74LVC2G17DBV SOT23-6 S	6,000	NO	6,000	30.SEP.2023
163	MA PART NO: 60901702,0 AND 082566				
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM THE INVOICE DATE.				

For and On behalf of BHEL.

Page 33 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

RFQ DATE: 04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SN74LVC2G17DBVR - TEXAS INSTRUMENTS				
	SN74LVC2G17DBVT - TEXAS INSTRUMENTS				
	74LVC2G17GV.125 - NEXPERIA				
	DV0692349553 IC SHIFT REG SN74LV165APW TSSOP-16 S	4,000	NO	4,000	30.SEP.2023
164	MA PART NO: 60914165,0	,		,	
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM THE INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SN74LV165APWR - TEXAS INSTRUMENTS				
	74LV165APW(TAPE&REEL) - PHILIPS SEMICONDUCTORS / NXP				
	74LV165APW(TAPE&REEL) - NEXPERIA				
	DV0692349880 IC CPU SUPERVISOR MAX6751KA29 SOT23-8 S	500	NO	500	30.SEP.2023
165	MA PART NO: 60066751,0				
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	OEM/ AUTHORISED DISTRIBUTOR /DEALER COC.				
	IN CASE OF DEALER COC VENDOR TO PROVIDE A				
	CERTIFICATE ON VENDOR#S LETTER HEAD				
	CERTIFYING PROCUREMENT# #FROM				
	OEM/AUTHORISED				
	DISTRIBUTOR.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	MAX6751KA29+T - ANALOG DEVICES BV				
	DV0692349928 IC ISPPAC-POWR1014A-01TN48I TQFP48 S	1,125	NO	1,125	30.SEP.2023
166	MA PART NO: 60401014,0				
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TRAY PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM HE INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	ISPPAC-POWR1014A-01TN48I(TRAY) - LATTICE				
	SEMICONDUCTOR CORPORATION				

For and On behalf of BHEL.

Page 34 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

sore Road Bangalore - 560026
INDIA

RFQ DATE: 04.MAY.2023

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DV0692351019 IC FF D-TYPE 74LVC1G74DC VSSOP8 S	3,000	NO	3,000	30.SEP.2023
167	MA PART NO: 60907400,0				
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	74LVC1G74DC (TAPE&REEL) - PHILIPS SEMICONDUCTORS /				
	NXP				
	SN74LVC1G74DCUR - TEXAS INSTRUMENTS				
	74LVC1G74DC (TAPE&REEL) - NEXPERIA				
	DV0692351139 MODULE QSEVEN AB1-3J84	596	NO	596	30.SEP.2023
168	M106 QSeven without coating				
	VALMET ORDER NO: AB1-3J84.				
	PQ7-M106IL-EN-E3845-2G-MET, Rev 400.				
	(OR)				
	PQ7-M106IL-EN-E3845-2G-MET, Rev 401.				
	(OR)				
	PQ7-M106IL-EN-E3845-2G-MET, Rev 501				
	VALMET,FNLAND PART NO: S447855.				
	VALMET,USA PART NO: 049368.				
	QSEVEN MODULES ARE TO BE SUPPLIED WITH				
	CUSTOMISED BIOS and EC AS PER VALMET -				
	FINLAND/USA.				
	ITEM TO BE SUPPLIED IN OEM PACKING.				
	DATE CODE OF THE ITEM TO BE WITHIN 2				
	YEARS FROM INVOICE DATE.				
	OEM COC AND WARRANTY CERTIFICATE FOR				
	1 YEAR FROM INVOICE DATE TO BE PROVIDED.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	AB1-3J84 - PORTWELL INC				
	DV0692352112 EPROM EPC1 20PIN PLCC	194	NO	194	30.SEP.2023
169	SERIAL EPROM EPC1 20PIN PLCC				
	ALTERA				
	EPC1LC20 - ALTERA CORPORATION				
	EPC1LC20N - ALTERA CORPORATION				

For and On behalf of BHEL.

Page 35 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

RFQ DATE : 04.MAY.2023

RFQ NUMBER:

CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

PURCHASE FILE COPY

(for all correspondence)

Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
170	DV0692352370 IC ANALOG REG. LM431BIM3 SMD SOT-23 ROHS WITH BACKWARD COMPATIBILITY. OEM TAPE & REEL PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. LM431BIM3/NOPB - NATIONAL SEMICONDUCTORS LM431BIM3X/NOPB - NATIONAL SEMICONDUCTORS	326	NO	326	30.SEP.2023
171	DV0692355863 CPU BOARD EBC500-BH EBC500-BH (P/N: 10E00050007X3) RoHS Compliant OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. 10E00050007X3 - NEXCOM INTERNATIONAL CO., LTD. Test Certificate	9	NO	9	30.SEP.2023
172	DV0692356215 IC RS485 TRANSCVR ISL3179E SOIC8 SMD MA PART NO: 60213179,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. ISL3179EIBZ-T - RENESAS TECHNOLOGY SINGAPORE PTE. L ISL3179EIBZ-T7A - RENESAS TECHNOLOGY SINGAPORE PTE. L Test Certificate	3,250	NO	3,250	30.SEP.2023
173	DV0692356916 IC ANA OPAMP DUAL AD8512ARZ SO8 SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. METSO PART NO: 60128512,0 OEM TUBE PACKAGE IS ALSO ACCEPTABLE		NO	1,568	30.SEP.2023

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	AD8512ARZ - ANALOG DEVICES BV				
174	DV0692356975 IC FLA SER 32Mb M25P32-VMP6G VFQFPN8 SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. METSO PART NO: 60422532,0 M25P32-VMP6G - MICRON SEMICONDR ASIA PACIFIC PVT L IS25LP032D-JKLE-TR - INTEGRATED SILICON SOLUTION INC. IS25LP032D-JKLE - INTEGRATED SILICON SOLUTION INC.	1,400	NO	1,400	30.SEP.2023
175	DV0692357769 IC DAC SER 14BIT 1CH AD5641 SC70-6 SMD DAC SER 14BIT 1CH AD5641 SC70-6 MA PART NO: 60105641,0	500	NO	500	30.SEP.2023
	ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
176	AD5641AKSZ - ANALOG DEVICES BV DV0692357785 IC DIGITAL ISOLATOR 4CH ADuM3401C SMD DIGITAL ISOLATOR 4CH ADuM3401CR SOW16	47	NO	47	30.SEP.2023
	MA PART NO: 60103403,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE ADUM3401CRWZ - ANALOG DEVICES BV				
177	DV0692357793 IC OPAMP AD8276ARMZ MSOP8 SMD Metso Part No:60128276,0	50	NO	50	30.SEP.2023
	OEM PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	AD8276ARMZ - ANALOG DEVICES BV				
178	DV0692361301 IGBT 1200V 20A TO-263 AA SMD IXGA20N120A3 TO-263 AA package. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.	50	NO	50	30.SEP.2023
	IXGA20N120A3 - IXYS CORPORATION				
179	DV0692390090 IC IF TTL HEX BUFFER SN7417D SOIC14 IC TTL SN7417 SOIC14 HEX BUFFER DRIVER WITH OPEN COLLECTOR. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. Date-code and decoding information of the date-code to be made available along with the item SN7417D - TEXAS INSTRUMENTS DM7417M - ON SEMI CONDUCTOR	813	NO	813	30.SEP.2023
	DV0692390154 IC HIGH PRECS VOLTREF AD688ARWZ	47	NO	47	30.SEP.2023
180	SMD16PIN IC High Precision Voltage Ref Device with 3.3V. OEM:ANALOG DEVICES P/N: AD688ARWZ SOIC 16PIN OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Date-code and decoding information of the date-code to be made available along with the item				
	AD688ARWZ - ANALOG DEVICES BV				

For and On behalf of BHEL.

Page 38 OF 69



BHARAT HEAVY ELECTRICALS LIMITED **Electronics Division**

PB No. 2606, Mysore Road Bangalore - 560026 **INDIA**

RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DV0692390197 IC DUAL LDO 3.3V TPS767D301Q SMD 28PIN	42	NO	42	30.SEP.2023
181	IC DUAL-OUTPUT LOW-DROPOUT VOLTAGE REG.				
	with 3.3V output and Adjustable				
	range. HTSSOP 28PIN Device OEM:TEXAS				
	INSTRUMENTS				
	P/N:TPS767D301QPWPRQ1,				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM				
	THE ABOVE."				
	Date-code and decoding information of the date-code to be				
	made				
	available along with the item				
	TPS767D301QPWPRQ1 - TEXAS INSTRUMENTS				
	DV0692400001 OPTOCOUPLER 5KV CNY17-3-300E SMD	3,000	NO	3,000	30.SEP.2023
192	OPTOCOUPLER 5KV SMD	3,000	NO	3,000	30.3EF.2023
162	OEM:AVAGO				
	P/N:CNY17-3-300E				
	1/14.CI411/ 5 500E				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	CNY17-3-300E - BROADCOM LIMITED				
	DV0692400010 IC FPGA CYCLONE II EP2C15AF484I8N SMD	1,092	NO	1,092	30.SEP.2023
183	IC FPGA ALTERA CYCLONE II				
	315IO 14.448LE 26KB 25MUL 4PLL				
	OEM:ALTERA				
	P/N:EP2C15AF484I8N				
	HOEM DA GWA CING ONLY				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."				
	Loose packets and boxes not acceptable				
	Louse packets and boxes not acceptable				
				1	

For and On behalf of BHEL.

Page 39 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	EP2C15AF484I8N - INTEL CORPORATION				
184	DV0692400044 IC SERIAL NUMBER SILICON DS2401P+ SMD IC SERIAL NUMBER SILICON TSOC6 OEM:DALLAS P/N:DS2401P+ TAPE-REEL ONLY "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable	4,000	NO	4,000	30.SEP.2023
	DS2401P+ - ANALOG DEVICES BV				
	DV0692400230 IC SDRAM 128MB 8MX16 MT48LC8M16A2P75 SMD SDRAM 128MB 8MX16 3.3V 133MHZ CL3 TSSOP-54 OEM:MICRON P/N:MT48LC8M16A2P75 IT "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable MT48LC8M16A2P75 IT - MICRON SEMICONDR ASIA PACIFIC PVT L MT48LC8M16A2P-6A IT:L - MICRON SEMICONDR ASIA PACIFIC PVT L	6,750	NO	6,750	30.SEP.2023
	DV0692400630 IC CMOS RS232 DRVR/RCSVR ADM232AARNZ SMD 2 CHANNEL RS232 CONVERTER 5V OEM:ANALOG DEVICES P/N:ADM232AARNZ "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."	3,696	NO	3,696	30.SEP.2023

For and On behalf of BHEL.

Page 40 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

CKGOT00029

RFQ NUMBER:

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	Loose packets and boxes not acceptable				
	ADM232AARNZ - ANALOG DEVICES BV				
	DV0692400664 IC DUAL-CH DIGTL ISOLTOR ADuM1200ARZ SMD	1,000	NO	1,000	30.SEP.2023
187	ISOLATOR DIGITAL DUAL 1MBPS SO-8				
	OEM:ANALOG DEVICES				
	P/N:ADuM1200ARZ				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 36 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable Tape and Reel only				
	ADUM1200ARZ-RL7 - ANALOG DEVICES BV				
	DV0692400699 IC nanoDAC 12-BIT 4-CH AD5624RBRM-3 SMD	1,000	NO	1,000	30.SEP.2023
188	IC DAC 12-BIT 4US 4-CHANNEL				
	WITH 1.25VREF MSOP-10				
	OEM:ANALOG DEVICES				
	P/N:AD5624RBRM-3				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 36 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable Tape and Reel only				
	, , , , , , , , , , , , , , , , , , , ,				
	AD5624RBRM-3REEL7 - ANALOG DEVICES BV				
	DV0692401512 IC TRSCVR PHYTER DP83848IVV/NOPB SMD	1,000	NO	1,000	30.SEP.2023
189	IC ETHERNET PHYTER 10/100 MB/S				
	OEM: NATIONAL SEMICONDUCTOR				
	P/N: DP83848IVV/NOPB				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	OTHER STATE OF STATE				
	OEM/Autohrised distributors COC shall be submitted during				

For and On behalf of BHEL.

Page 41 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	delivery and				
	same shall be confirmed at the time of quotation				
	DP83848IVV/NOPB - TEXAS INSTRUMENTS				
	DV0692401520 IC REG 3A SYNCHRONOUS 5V LM20133M SMD	1,750	NO	1,750	30.SEP.2023
190	IC REGULATOR 3A SYNCHRONOUS 5V IN				
	OEM:NATIONAL SEMICONDUCTOR P/N:LM20133M				
	1/14.EN1201331VI				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	Tape and Reel only				
	OEM/Autohrised distributors COC shall be				
	submitted during delivery and same shall				
	be confirmed at the time of quotation				
	•				
	LM20133MHE - TEXAS INSTRUMENTS			44.050	
101	DV0692401547 IC RS485/422 BUS TRANSVCR LMS1487EIM SMD IC RS-422/RS-485 TRANSCEIVER	11,250	NO	11,250	30.SEP.2023
191	2.5MBPS HALF-DUPLEX 5V	11,230			
	OEM:NATIONAL SEMICONDUCTOR				
	P/N:LMS1487EIM				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."				
	Loose packets and boxes not acceptable Tape and Reel only				
	20050 packets and boxes not acceptable Tape and Reel Only				
	OEM/Autohrised distributors COC shall be				
	submitted during delivery and same shall				
	be confirmed at the time of quotation				
	CNICELIVIDAZGODD. TEVAC INICTOLINATATO				
	SN65HVD1782DR - TEXAS INSTRUMENTS LMS1487EIMX - TEXAS INSTRUMENTS				
	DV0692401644 IC VOLT REG INHIBIT 3.3V LF33ABDT D-PAK	5,000	NO	5,000	30.SEP.2023
	DV0032401044 IC VOLI NEG IIVIIIDII 3.3V LF33ADDI D-PAK	3,000	INO	3,000	JU.JLF.2023

For and On behalf of BHEL.

Page 42 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	IC REGULATOR 3.3V .5A LDO D-PAK				
192	OEM:ST				
	P/N:LF33ABDT				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	LF33ABDT - SGS THOMSON MICROELECTRONICS				
	DV0692401652 IC F-EPROM 64MB 4MX16/8MX8 M29W640FT70N6	1,920	NO	1,920	30.SEP.2023
193	FLASH MEMORY 64MBIT 4MX16/8MX8 3V TSOP 48				
	OEM:ST				
	P/N:M29W640FT70N6				
	OEM DACK ACING ONLY				
	OEM PACKAGING ONLY.				
	Loose packets and boxes not acceptable				
	M29W640FT70N6E - MICRON SEMICONDR ASIA PACIFIC PVT L				
	MX29GL640ETTI-70G - MACRONIX INTERNATIONAL CO., LTD.				
	DV0692401679 IC SUPER WATCHDOG TIMER STM6822TWY6	7,500	NO	7,500	30.SEP.2023
104	SMD	7,300	NO	7,300	30.3EF.2023
194	SUPERVISOR UP OD/RESET 200MS 3.08V /MR WDI				
	SOT23-5				
	OEM:ST				
	P/N:STM6822TWY6				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	Tape and Reel only				
	STM6822TWY6F - SGS THOMSON MICROELECTRONICS				
	DV0692401687 IC CMS Q- BILATERAL SWITCH CD4066BCM SMD	495	NO	495	30.SEP.2023
195	SWITCH ANALOG QUAD SOIC-14				
	OEM:TEXAS INSTRUMENTS				
	P/N:CD4066BCM				

For and On behalf of BHEL.

Page 43 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable CD4066BCM - TEXAS INSTRUMENTS CD4066BM - TEXAS INSTRUMENTS HCF4066BM1 - SGS THOMSON MICROELECTRONICS				
196	DV0692401709 IC SINGLE CH RS-232 TRSCVR MAX3221ID SMD RS-232 TRANSCEIVER 250KBPS 3-5.5V WITH 15KV ESD PROTECTION OEM:TEXAS INSTRUMENTS P/N:MAX3221IDBE4 "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation MAX3221IDBE4 - TEXAS INSTRUMENTS MAX3221IDBR - TEXAS INSTRUMENTS	7,520	NO	7,520	30.SEP.2023
197	DV0692401725 IC CAN TRSCVR FOR 24V SN65HVD251D SMD CAN TRANSCEIVER FOR 24V SYSTEMS SO-8 OEM:TEXAS INSTRUMENTS P/N:SN65HVD251D "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only OEM/Autohrised distributors COC shall be	4,088	NO	4,088	30.SEP.2023

For and On behalf of BHEL.

Page 44 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	submitted during delivery and same shall				
	be confirmed at the time of quotation				
	SN65HVD251D - TEXAS INSTRUMENTS				
	DV0692401741 IC 16-BIT BUS TRANSCVR SN74LVCHR16245AGR	2,667	NO	2,667	30.SEP.2023
198	BUS TRANSCEIVER 16-BIT 3-STATE				
	OUT BUS HOLD 5V-TOL OUTPUT-RS				
	OEM:TEXAS INSTRUMENTS				
	P/N: SN74LVCHR16245AGR				
	PACKAGING: TSSOP-DGG SMD				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	OEM/Autohrised distributors COC shall be				
	submitted during delivery and same shall				
	be confirmed at the time of quotation				
	be commined at the time of quotation				
	SN74LVCHR16245AGR - TEXAS INSTRUMENTS				
	DV0692401750 IC ADJ PRECSN SHUNT REG 36V TL431BIDBZ	3,000	NO	3,000	30.SEP.2023
199	REFERENCE SHUNT ADJUSTABLE 36V 100MA				
	OEM:TEXAS INSTRUMENTS				
	P/N: TL431B DBZ				
	PACKAGING: SOT-23-3(DBZ)				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	Tape and Reel only				
	OEM/Autohrised distributors COC shall be				
	submitted during delivery and same shall				
	be confirmed at the time of quotation				
	TL431BIDBZ - TEXAS INSTRUMENTS				
	DV0692401768 IC CONTR CURRENT MODE PWM UC2845ANG4	3,250	NO	3,250	30.SEP.2023
200	CONTROLLER CURRENT MODE PWM PDIP-8				

For and On behalf of BHEL.

Page 45 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

VENUE : SUB ASSLY PUR

PURCHASE FILE COPY

(for all correspondence)

Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	OEM:TEXAS INSTRUMENTS				
	P/N: UC2845ANG4				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	OF 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	OEM/Autohrised distributors COC shall be				
	submitted during delivery and same shall				
	be confirmed at the time of quotation				
	UC2845ANG4 - TEXAS INSTRUMENTS				
	DV0692402187 IC FPGA MAX-II 240LE EPM240T100I5N SMD	540	NO	540	30.SEP.2023
201	FPGA ALTERA MAX-II CPLD				
	240LE 8KBIT 80IO TQFP-100				
	OEM:ALTERA P/N:EPM240T100L5N				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	20050 puckets and boxes not acceptance				
	EPM240T100I5N - INTEL CORPORATION				
	DV0692402390 IC MVB CONTROLLER INTERFACE PC30 D013LF	342	NO	342	30.SEP.2023
202	OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE				
	THE ADOVE				
	D013LF-S - DUAGON AG				
		1,000	MO	1,000	20 SED 2022
202	DV0692402500 IC OPAMP DUAL LOW OFFSET OP727AR SMD	1,000	NO	1,000	30.SEP.2023
203	IC OPERATIONAL AMPLIFIER				
	DUAL LOW OFFSET SO-8 SMD				
	OEM:ANALOG DEVICES				
	P/N:OP727AR				
	HOTELA DA CIVA CIDACIONA VI				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 36 MONTHS FROM				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

RFQ DATE : 04.MAY.2023

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable Tape and Reel only				
	OP727ARZ-REEL7 - ANALOG DEVICES BV				
	DV0692402535 OPTOCOUPLER GATE DRV HCPL-3020-300E SMD	2,000	NO	2,000	30.SEP.2023
204	IC OPTOCOUPLER GATE DRIVE .4A SMD				
	OEM:AVAGO/AGILENT				
	P/N:HCPL-3020-300E				
	HOTELA DA CIVA CIDACIONA VI				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."				
	Loose packets and boxes not acceptable				
	Loose packets and boxes not acceptable				
	HCPL-3020-300E - BROADCOM LIMITED				
	DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD	672	NO	672	30.SEP.2023
205	IC RECEIVER DIFFERENTIAL WITH	0.2	110	0,2	00.021 .2020
203	EN QUAD 3.3V SO16 SMD				
	OEM:NATIONAL SEMICONDUCTORS				
	P/N:DS34LV86TM/NOPB				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	OEM/Autohrised distributors COC shall				
	be submitted during delivery and				
	same shall be confirmed at the time				
	of quotation				
	DS34LV86TM/NOPB - TEXAS INSTRUMENTS				
	DV0692402870 IC DRIVER MOSFET QUAD 1.2A MIC4469Y SMD	5,000	NO	5,000	30.SEP.2023
206	IC DRIVER MOSFET QUAD 1.2A MIC44691 SMID	5,000	INO	3,000	30.3L12023
200	OEM:MICREL				
	P/N:MIC4469YWM				

For and On behalf of BHEL.

Page 47 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

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	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."				
	Loose packets and boxes not acceptable Tape and Reel only				
207	MIC4469YWM-TR - MICROCHIP TECHNOLOGY LTD DV0692403396 IC SWITCH ANALOG SPST QUAD SMD IC SWITCH ANALOG CMOS SPST QUAD SMD OEM:VISHAY P/N:DG411DY "OEM PACKAGING ONLY.	1,000	NO	1,000	30.SEP.2023
	DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable				
208	DG411DY-E3 - VISHAY INTER TECHNOLOGY ASIA PTE. L DV0692403434 IC COMPARATOR QUAD 36V 7MVOS LM2901M SMD IC COMPARATOR QUAD 36V 7MVOS OEM:NATIONAL SEMICONDUCTORS P/N:LM2901M "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation	633	NO	633	30.SEP.2023

For and On behalf of BHEL.

Page 48 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	LM2901M - TEXAS INSTRUMENTS				
209	DV0692403442 IC REG ADJ 1.5A 3-TERMINAL LM317AMDT SMD IC REGULATOR ADJUSTABLE 3-TERMINAL 1.5A OEM:NATIONAL SEMICONDUCTOR P/N:LM317AMDT	550	NO	550	30.SEP.2023
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable				
	OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation				
	LM317AMDT - TEXAS INSTRUMENTS				
210	DV0692403477 IC SL FLASH MEMORY 64MB SMD OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.	1,000	NO	1,000	30.SEP.2023
	Loose packets and boxes not acceptable				
	M25P64-VMF6TP - MICRON SEMICONDR ASIA PACIFIC PVT L IS25LP064A-JMLE-TR - INTEGRATED SILICON SOLUTION INC.				
211	DV0692403485 IC DAC 10-BIT 1US 2-CHAN TLV5617AID SMD IC DAC 10-BIT 1US 2-CHANN SERIAL SO-8 OEM:TI P/N:TLV5617AID	275	NO	275	30.SEP.2023
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and				
	same shall be confirmed at the time of quotation				
212	TLV5617AID - TEXAS INSTRUMENTS DV0692403493 IC TRANS ARRAY DARLINGTON ULQ2003AD SMD IC TRANSISTOR ARRAY DARLINGTON 7X3VIN OEM:TI P/N:ULQ2003AD "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and	920	NO	920	30.SEP.2023
	same shall be confirmed at the time of quotation ULQ2003AD - TEXAS INSTRUMENTS				
213	DV0692403566 IC REF VOLT 3V 0.1% 50PPM SMD IC REFERENCE 3.0V 0.1% 50PPM SO-8 OEM TAPE & REEL PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE Loose packets and boxes not acceptable REF193GSZ-REEL - ANALOG DEVICES BV	3,750	NO	3,750	30.SEP.2023
214	DV0692403574 IC CONFG DEVICE SERIAL 1MB SMD IC CONFIGURATION DEVICE SERIAL 1MBIT OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS	1,775	NO	1,775	30.SEP.2023

For and On behalf of BHEL.

Page 50 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE				
	TO BE SUPPLIED IN TUBE				
	Loose packets and boxes not acceptable				
	EPCQ4ASI8N - INTEL CORPORATION				
215	DV0692403647 IC GATE NAND 4CH 2-INP 14 SOIC SMD QUAD 2-INPUT NAND SCHMITT TRIGGER SOIC-14 OEM TAPE & REEL PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable	10,000	NO	10,000	30.SEP.2023
	MC14093BDR2G - ON SEMI CONDUCTOR				
216	DV0692403825 IC BUCK VOL REG 1A 5V 260KHZ SMD IC SIMPLE SWITCHER POWER CONVERTER HIGH EFFICIENCY 1A 5V 260KHZ STEP-DOWN VOLTAGE REGULATOR SOP-8 OEM PACKAGING ONLY DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE To be supplied in tape & reel only. Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation LM2672MX-5.0/NOPB - TEXAS INSTRUMENTS	2,500	NO	2,500	30.SEP.2023
217	DV0692403833 IC HIGH SPEED OPAMP SMD IC HIGH O/P HIGH SPEED OPAMP OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE Loose packets and boxes not acceptable	2,500	NO	2,500	30.SEP.2023

For and On behalf of BHEL.

Page 51 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation LM7171AIMX/NOPB - TEXAS INSTRUMENTS				
218	DV0692403850 IC ADJ VOLT REG 2A 150KHZSMD IC SIMPLE SWITCHER POWER CONVERTER 2A 150KHZ STEP DOWN VOLTAGE REGULATOR HIGH VOLT TO-263 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE To be supplied in tape & reel only. Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation	2,000	NO	2,000	30.SEP.2023
219	LM2593HVSX-ADJ/NOPB - TEXAS INSTRUMENTS DV0692403876 IC MONO ASTABLE MULTVIBRTOR SMD IC MONOSTABLE ASTABLE MULTIVIBRATOR OEM TAPE & REEL PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE Loose packets and boxes not acceptable	2,500	NO	2,500	30.SEP.2023
220	DV0692404147 IC DRIV MOS 1.5A NON-INV SMD OEM TAPE & REEL PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable.	7,700	NO	7,700	30.SEP.2023

For and On behalf of BHEL.

Page 52 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	TC4427VOA713 - MICROCHIP TECHNOLOGY LTD				
221	DV0692404155 IC DRIV MOSFET 1.5A COMPL SMD OEM TAPE & REEL PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable.	9,900	NO	9,900	30.SEP.2023
222	DV0692404368 IC REG BUCK1.5V 2A 1.5MHZ LM2852XMXA SMD REGULATOR BUCK SIMPLE SYNCHRONOUS 1.5V 2A 1.5MHZ OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation	846	NO	846	30.SEP.2023
223	DV0692404376 IC HI-VOLTG REG 0.3A 600KHZ LM5008MM SMD REGULATOR BUCK HIGH VOLTAGE 0.3A 600KHZ OSMM SMD REGULATOR BUCK HIGH VOLTAGE 0.3A 600KHZ OSMM SMD OSMM	3,500	NO	3,500	30.SEP.2023

For and On behalf of BHEL.

Page 53 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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I	Description	Qty	Unit	Delivery qty	Delivery Date
	OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation LM5008MM - TEXAS INSTRUMENTS				
224	DV0692404392 IC SWITCH 3A 260KHZ LM2673SX-ADJ SMD SIMPLE SWITCHER 3A STEP DOWN VOLTAGE ADJUSTABLE CURRENT LIMIT TO-263 OEM:NATIONAL SEMICONDUCTORS P/N:LM2673SX-ADJ "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation	2,000	NO	2,000	30.SEP.2023
225	LM2673SX-ADJ/NOPB - TEXAS INSTRUMENTS DV0692404406 IC REF 2V 0.2% 50PPM LM4120AIM5-2.0 SMD REFERENCE 2V 0.2% 50PPM SOT23-5 OEM:NATIONAL SEMICONDUCTORS P/N:LM4120AIM5-2.0 "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only OEM/Autohrised distributors COC shall be submitted during delivery and	2,000	NO	2,000	30.SEP.2023

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	same shall be confirmed at the				
	time of quotation				
	LM4120AIM5-2.0 - TEXAS INSTRUMENTS				
	DV0692404449 OPTO FBR TRNSMTR DIODE Q62702-P1715	852	NO	852	30.SEP.2023
226	PLASTIC FIBER OPTIC				
	TRANSMITTER DIODE SFH756V				
	OEM:INFINEON				
	P/N:Q62702-P1715				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	SFH756V: ORDERING CODE - SP000063814				
	SFH756V - BROADCOM LIMITED				
	DV0692404554 IC REG 5V 0.1A LDO HT7550-1 SOT89 SMD	9,000	NO	9,000	30.SEP.2023
227	REGULATOR 5V 0.1A LDO				
	LOW POWER SOT-89				
	OEM:HOLTEK				
	P/N:HT7550-1-SOT89TRLF				
	"OEM DACK ACINIC ONLY				
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	To be supplied in tape & reel only.				
	Loose packets and boxes not acceptable				
	20050 puckets and boxes not acceptable				
	HT7550-1-SOT89TRLF - HOLTEK SEMICONDUCTOR (USA) INC.,				
	DV0692404880 OPTCPLR:HIGH INSULTN VOLT SMD	4,500	NO	4,500	30.SEP.2023
228	OEM PACKAGING ONLY.	.,	-	.,	
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM				
	THE ABOVE.				
	Loose packets and boxes not acceptable				

For and On behalf of BHEL.

Page 55 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

RFQ DATE : 04.MAY.2023

RFQ NUMBER:

CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

PURCHASE FILE COPY

(for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	ACNV2601-500E - BROADCOM LIMITED				
	Test Certificate				
229	DV0692404970 IC RS-485 TRANSCEIVER ADM1485 SMD IC RS-485 TRANSCEIVER ADM1485 SMD OEM: ANALOG DEVICES P/N: ADM1485ARZ-REEL7	2,200	NO	2,200	30.SEP.2023
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only				
	ADM1485ARZ-REEL7 - ANALOG DEVICES BV				
230	DV0692406387 OPTOCOUPLER THT CNY65B Optocoupler DC-IN 1-CH Transistor DC-OUT 4-Pin PDIP CNY65B - VISHAY INTER TECHNOLOGY ASIA PTE. L	660	NO	660	30.SEP.2023
231	DV0692410597 IC ADC 10-BIT 250KSPS 2-CH SL MSOP-8 SMD IC ADC 10-BIT 250KSPS 2-CHANNEL SERIAL MSOP-8 OEM:ADI P/N:AD7911ARM	2,500	NO	2,500	30.SEP.2023
	OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	Loose packets and boxes not acceptable Tape and Reel only				
	AD7911ARMZ-REEL7 - ANALOG DEVICES BV				
232	DV0692411666 IC SERIAL ADC 12B 250KSPS MSOP-8 SMD OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE	1,000	NO	1,000	30.SEP.2023
	Loose packets and boxes not acceptable Tape and Reel only				
	AD7920BRMZ-REEL7 - ANALOG DEVICES BV				
	DV0692411682 IC QUAD 2 I/P AND GATE 74LV08D SO-14 SMD	5,000	NO	5,000	30.SEP.2023

For and On behalf of BHEL.

Page 56 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
233	OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE Loose packets and boxes not acceptable Tape and Reel only				
	74LV08D - PHILIPS SEMICONDUCTORS / NXP				
234	DV0692411879 IC SWITCH CURRENT LTD 1A SOT-23 SMD SWITCH, CURRENT LTD, 1A, SOT23 OEM: TEXAS INSTRUMENTS P/N: TPS2051BDBV OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE Loose packets and boxes not acceptable Tape and Reel only TPS2051BDBV - TEXAS INSTRUMENTS		NO	250	30.SEP.2023
235	DV0692411890 MVB INTERFACE D113L-T-P4A MVB MDFULL EMD INTERFACE D113L-T-P4A - DUAGON AG	116	NO	116	30.SEP.2023
236	DV0692430105 IC ADC 12BIT 1MSPS SERIAL SMD DATE CODE TO BE LESS THAN 36 MONTHS FROM NVOICE DATE.BHEL'S WRITTEN APPROVAL ISREQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. AD7476ARTZ-500RL7 - ANALOG DEVICES BV		NO	750	30.SEP.2023
237	DV0692430385 IC FIFO USB DUAL UART INTERFACE 32QFN USB UART 2-ch Full speed QFN-32 OEM:EXAR P/N.XR21V1412IL32 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable.	490	NO	490	30.SEP.2023

For and On behalf of BHEL.

Page 57 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PR No. 2606 Mysore Road Bangalore - 560026

PB No. 2606, Mysore Road Bangalore - 560026

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	Tape and Reel only				
	XR21V1412IL32-F - EXAR CORPORATION				
238	DV0692430393 IC ARM MCU CORTEX M4 512K FLASH 2xCAN Microcontroller ARM CORTEX M4 512k flash 2xCAN etc. 120MHz OEM:NXP P/N:LPC4088FBD208 "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only	324	NO	324	30.SEP.2023
	LPC4088FBD208 - PHILIPS SEMICONDUCTORS / NXP				
239	DV0692430435 E-NET CNTRL INT ETH CARD D013E-TR-O-N-MQ Ethernet Controller Component OEM:DUAGON P/N.D013E-TR-O-N-M-Q D013E-TR-O-N-M-Q#U001 - DUAGON AG	3,000	NO	3,000	30.SEP.2023
	DV0692430493 IC SDRAM 256MB 8Mx16 3.3V 167MHz TSOP-54	324	NO	324	30.SEP.2023
240	SDRAM 256Mb 8Mx16 3.3V 167MHz CL3 TSOP-54 OEM:ISSI P/N.IS42S16160G-7TLI OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable IS42S16160G-7TLI - INTEGRATED SILICON SOLUTION INC.	324	NO	524	30.3EF.2023
241	DV0692430585 OPTCPLR ISLTR 3KV SINGLE DC INPUT SO-4 Optocoupler Single DC Input SO4 OEM:AVAGO / BROADCOM P/N.ACPL-217-50BE OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable. Tape and Reel only	15,200	NO	15,200	30.SEP.2023

For and On behalf of BHEL.

Page 58 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	ACPL-217-50BE - BROADCOM LIMITED				
242	DV0692430627 IC REG ADJ LDO LINEAR VOLT 800mA Adjustable LDO 800mA OEM:TEXAS INSTRUMENT P/N:LP38511-ADJ "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only LP38511TJ-ADJ - TEXAS INSTRUMENTS	1,000	NO	1,000	30.SEP.2023
243	DV0692430669 IC FPGA CYCLONE IV 343IO 15K LE FPGA Altera Cyclone IV, 343IO 15K LE OEM: ALTERA P/N:EP4CE15F23I7N "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only EP4CE15F23I7N - ALTERA CORPORATION		NO	240	30.SEP.2023
244	DV0692430843 IC FLASH 128M SPI 3.3V 104MHZ 8SOP SMD IC FLASH 128M SPI CMOS 3.3V 104MHZ 8SOP, NOR MEMORY OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable. TO BE VACUUM PACKED AS MOISTURE SENSITIVITY LEVEL-3(168HRS) MX25L12835FM2I-10G - MACRONIX INTERNATIONAL CO., LTD.		NO	2,000	30.SEP.2023
245	DV0692431485 75 V, 1.5A Step-Down Switch RegulatorSMD OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE. LM5575MHX/NOPB - TEXAS INSTRUMENTS	2,500	NO	2,500	30.SEP.2023
246	DV0692431593 Floating point DSP SHARC SMD OEM- ANALOG DEVICES PACKAGE - BGA-324 OEM PACKAGING ONLY. DATE CODE TO	181	NO	181	30.SEP.2023

For and On behalf of BHEL.

Page 59 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

RFQ DATE: 04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

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E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	BE LESS THAN 24 MONTHS FROM INVOICE				
	DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM THE				
	ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE.				
	ADSP-21469BBCZ-3 - ANALOG DEVICES BV				
		200	NO	200	00.050.000
247	DV0692431745 Ultra-Small, Hex Voltage, Microprocessor OEM- MAXIM OEM PACKAGING ONLY. DATE CODE		NO	200	30.SEP.2023
247	TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY				
	DEVIATION FROM THE ABOVE. LOOSE PACKET AND				
	BOXES NOT ACCEPTABLE.				
	MAX16055AAUB+ - MAXIM INTEGRATED PRODS INC				
	DV0692431918 IC FPGA CYCLONE IV 6KLE EQFP-144 SMD	300	NO	300	30.SEP.2023
248	FPGA Intel Cyclone IV 6kLE EQFP-144 TO BE SUPPLIED				
	IN OEM PACKING ONLY.				
	DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE.BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM THE ABOVE.				
	EP4CE6E22I7N - INTEL CORPORATION				
	DV0692431942 IC ADC 12BIT 3MSPS SOT23 SMD	1,000	NO	1,000	30.SEP.2023
249	IC ADC 12BIT 3MSPS SOT23 OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN				
	24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE				
	OF ANY DEVIATION FROM THE ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE.				
	AD7276AUJZ-500RL7 - ANALOG DEVICES BV				
	DV0692442707 IC MP SUPERVSR MAX707ESA 4.65V SOIC8 SMD	100	NO	100	30.SEP.2023
250	ROHS DEVICE WITH BACKWARD COMPATIBILITY.	100	NO	100	30.3L1 .2023
200	ONLY.				
	DATE CODE TO BE LESS THAN 2 YEARS FROM				
	INVOICE				
	DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	MAX707ESA+T - ANALOG DEVICES BV				
	MAX707ESA+ I - ANALOG DEVICES BV MAX707ESA+ - ANALOG DEVICES BV				
	DRW 12SAE40 01				
	DV0692443584 IC PREC INSTR AMP AD524SD 16P CDIP	185	NO	185	30.SEP.2023
251	OEM PACKING ONLY.				
	-				

For and On behalf of BHEL.

Page 60 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DATE CODE TO BE LESS THAN 36 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	ADECAOD ANALOG DEVICEO DV				
	AD524SD - ANALOG DEVICES BV DRW 12SAE35 04				
		10	270	10	00.050.000
252	DV0692445951 IC FPGA A3P600L FBGA484 SMD RoHS DEVICE. TO BE SUPPLIED IN OEM TRAY	12	NO	12	30.SEP.2023
252	PACKING ONLY. DATE CODE TO BE LESS THAN 4				
	YEARS FROM INVOICE DATE, BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF				
	ANY DEVIATION FROM THE ABOVE.				
	THE PERMITOR THE THEORE.				
	A3P600L-FGG484I - MICROSEMI SOC PRODUCTS GROUP				
	A3P600L-FGG484I - MICROCHIP TECHNOLOGY LTD				
	DRW 12SAE35 04				
	DV0692449868 IC SMD FPGA A42MX16-1PQ160M	146	NO	146	30.SEP.2023
253	TO BE SUPPLIED IN OEM TRAY PACKING ONLY.				
	DATE CODE TO BE LESS THAN 5 YEARS FROM				
	INVOICE DATE. BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM THE				
	ABOVE				
	A ASSAULA A PO ASSAULA MISTORIA DE TESTANOLO SOVA TR				
	A42MX16-1PQ160M - MICROCHIP TECHNOLOGY LTD				
	A42MX16-1PQG160M - MICROCHIP TECHNOLOGY LTD A42MX16-1PQ160M - MICROSEMI SOC PRODUCTS GROUP				
	A42MX16-1FQ160M - MICROSEMI SOC PRODUCTS GROUP				
	DRW 12SAE35 04				
	DV0692451919 LCD GRAPHIC DISP MDL 128 X 64	5	NO	5	30.SEP.2023
254	LCD GRAPHIC DISP MDL 128 X 64	ŭ	NO	· ·	30.0L1 .2023
23.					
	COC TO BE PROVIDED AS PER DOCUMENT				
	INDICATED IN THE ENQUIRY OEM PACKING				
	ONLY. DATE CODE TO BE LESS THAN 24				
	MONTHS FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM THE ABOVE				
	LCD-128H064E1-YYH-VN - VISHAY INTER TECHNOLOGY ASIA				
	PTE. L				
	DRW 12SAE35 04				
	DV0692452951 FLASH PRO4 JTAG PROGRAMMER	11	NO	11	30.SEP.2023
255	FLASH PRO4 JTAG PROGRAMMER				

For and On behalf of BHEL.

Page 61 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	Deliverables :				
	FlashPro4 programmer unit				
	USB A to mini-B USB cable				
	FlashPro4 10-pin ribbon cable				
	User manual				
	Warranty certificate for 90 Days from date of delivery				
	FLASH PRO4 - MICROSEMI SOC PRODUCTS GROUP				
256	DV0692501711 IC REG BUCK SYNC ADJ 3A MLP-12 SMD "IC REG BUCK SYNC ADJ 3A MLP-12 FAN5353MPX DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."		NO	100	30.SEP.2023
	FAN5353MPX - ON SEMI CONDUCTOR				
257	DV0692503735 IC 3-CH PROTECTOR ADG466BR SO8 Tripple Channel Protector ADG466BR SO8. DATE CODE TO BE LESS THAN 48 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE	100	NO	100	30.SEP.2023
	ADG467BRS - ANALOG DEVICES BV				
258	DV0692504095 IC SW BUCK REG 4.5-28VIN 0.8-25VOUT SO-8 "IC SW BUCK REG 4.5-28VIN 3A 0.8-25VOUT SO-8_PWRPAD DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."		NO	20	30.SEP.2023
	TPS54336ADDA - TEXAS INSTRUMENTS				
259	DV0692510303 IC LDO 150mA 1.0 VOUT SOT23-5 SMD "OEM PACKAGING ONLY. DATE CODE TO BE LESS	24	NO	24	30.SEP.2023

For and On behalf of BHEL.

Page 62 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

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	THAN 24 MONTHS FROM INVOICE				
	DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM				
	THE ABOVE." Tape and Reel only Loose packets and boxes				
	not acceptable				
	MIC5317-1.0YM5-TR - MICROCHIP TECHNOLOGY LTD				
	MIC5317-1.0YD5-TR - MICROCHIP TECHNOLOGY LTD				
	ED7470133941 MDL FILTER FN660-20/06	69	NO	69	30.SEP.2023
260	MDL FILTER FN660-20/06				
	ABB REFERENCE: HIER457910P1				
	FN660-20/06 - SCHAFFNER EMC PTE LTD				
	DRW PROP_REF:SAF.2-09/11/06 00				
	EN7467001800 IC LIN VOLT REG POS FIX 5V MC7805ACT	200	NO	200	30.SEP.2023
261	IC LIN VOL REG. 5V				
	1A, 2%, TO-220				
	MC7805ACT				
	MC7805ACTG - ON SEMI CONDUCTOR				
	MC7805ACT - ON SEMI CONDUCTOR				
	LM7805ACT - ON SEMI CONDUCTOR				
	EN7467004923 IC LIN VOLT REG POS ADJ LM723CD	275	NO	275	30.SEP.2023
262	IC LIN VLTG.REG ADJ.				
	S0-14 SMD				
	LM723CD				
	LM723CD - SGS THOMSON MICROELECTRONICS UA723CD - TEXAS INSTRUMENTS				
	EN7467011814 IC LIN OPAMP SINGLE OP07CS SOIC8 SMD	784	NO	784	20 CED 2022
262	IC LIN OPAMP 8PIN SMD OP07CS	704	NO	7 04	30.SEP.2023
203	IC LIN OF AIME OF IN SIMIL OF OVES				
	OEM PACKING ONLY				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE				
	OP07CS - ANALOG DEVICES BV				
	OPA177GS - TEXAS INSTRUMENTS				
	EN7467011830 IC LIN OPAMP SING UA741CD SMD	1,300	NO	1,300	30.SEP.2023
264	IC LIN OPAMP SO-8 UA741CD	•			
	OEM PACKING ONLY				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				

For and On behalf of BHEL.

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Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	IN CASE OF ANY DEVIATION FROM THE ABOVE				
	LM741CM - NATIONAL SEMICONDUCTORS				
	UA741CD - SGS THOMSON MICROELECTRONICS				
	UA741CD - TEXAS INSTRUMENTS				
	EN7467031998 IC LIN CONVERTER V-TO-I XTR110KU	170	NO	170	30.SEP.2023
265	IC LIN SPL V/I CONVERTER 4-20MA SMD		1.0		00.022020
200	XTR110KU/BURR BROWN				
	Time Tone, Berne Bite Wit				
	OEM PACKING ONLY				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE				
	XTR110KU - TEXAS INSTRUMENTS				
	DRW PROP_REF:BRR.3-08/29/06 00				
	EN7467055986 IC LIN AMPLIFIER ISOLATION ISO122U	120	NO	120	30.SEP.2023
266	IC LIN, SMD SO-28 ISOLATION AMPLIFIER		-	-	
	ISO122U/BURR BROWN				
	OEM PACKING ONLY				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE				
	ISO122U - TEXAS INSTRUMENTS				
	DRW PROP_REF:BRR.4-08/29/06 00				
	EN7467099622 IC LIN DC/DC CONVERTER 15V	30	NO	30	30.SEP.2023
267	IC LIN DC-DC CNVRTR		1.0		00.022020
207	I/P:48V O/P:15V 1.3A				
	TEN 20-4813WI				
	TEN 20-4813WI - TRACO ELECTRONIC AG				
	EC1SC13 - CINCON ELECTRONICS CO. LTD.				
	UWR-15/1300-D48A - MURATA				
	JTA2048S15 - XP POWER LIMITED				
	EN7467116950 IC MEM NMS EPROM 8K*8 2764	225	NO	225	30.SEP.2023
268	IC MEM EPROM 8K X 8	220	NO		30.0L1 .2023
208	IO INDIN DI IVONI OIL II O				
	MBM27C64-25Z				
	MBM27C64-25Z - FUJITSU COMPUTERS (SINGAPORE)				
	NMC27C64Q-150 - NATIONAL SEMICONDUCTORS				
	NMC27C64Q-200 - NATIONAL SEMICONDUCTORS				
	M27C64A-15F1 - SGS THOMSON MICROELECTRONICS				
	MET 33 17 131 1 000 THOMOST WIGHT CELECTIONIO				

For and On behalf of BHEL.

Page 64 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

RFQ DATE : 04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

> VENUE : SUB ASSLY PUR

PURCHASE FILE COPY

(for all correspondence)

Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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IC MEM EEPROM NMOS 250 NS 8K * 8 X2864AP-25 X2864AP-25 X2864CP-12 - INTERSIL INC AT28C64B-15PU - ATMEL CORPORATION X28HC64P-12 - INTERSIL INC AT28C64B-15PU - ATMEL CORPORATION X28HC64P2-12 - INTERSIL INC	Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
250 NS 8K * 8		EN7467121997 IC MEM MOS EEPROM 8K*8 2864	185	NO	185	30.SEP.2023
X2864AP-25 X28HC64P-12 - INTERSIL INC AT28C64P-152 - ATMEL CORPORATION X28HC64P-12 - INTERSIL INC EN7467141645 C EPLD CMS 640 PRODUCT TERMS 7128 50 NO 50 30.SEP.202 10 EPLD CMD 640 PRODUCT TERMS 7128 SMD Date-code to be made available along with the item EPM7128ELI84-20 - ALTERA CORPORATION EN7467203934 C IF HCMS OCT BUFFER 74HCT241 50 NO 50 30.SEP.202 10 IF OCTAL BUFFER LINE DRIVER PC74HCT241P 74HCT241P 74HCT2541P 74HCT2541P	269	IC MEM EEPROM NMOS				
X28HC64P-12 - INTERSIL INC AT28C64B-15PU - ATMEL CORPORATION X28HC64P-12 - INTERSIL INC		250 NS 8K * 8				
AT28C64B-15PU - ATMEL CORPORATION X28HC64PZ-12 - INTERSIL INC EN7467141645 IC EPLD CMS 640 PRODUCT TERMS 7128 EN7467141645 IC EPLD CMD 640 PRODUCT TERMS 7128 SMD Date-code to be made available along with the item EPM7128ELI84-20 - ALTERA CORPORATION EN7467203934 IC IF HCMS OCT BUFFER 74HCT241 TO IF OCTAL BUFFER LINE DRIVER PC7-4HCT241P 74HCT241N - PHILIPS SEMICONDUCTORS / NXP CD74HCT241P - TEXAS INSTRUMENTS EN7467215835 IC IF ADC 12 BIT 574 130 NO 130 30.SEP.202 12 BIT PDIP-28 AD574AJN - ANALOG DEVICES BV MX574AJN - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 AD7891AP-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 EN7467220987 IC IF DAC 12 BIT 7545 12 BIT AD7545BQ AD7545ABN - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 12 BIT AD7545ABN - ANALOG DEVICES BV		X2864AP-25				
X28HC64PZ-12 - INTERSIL INC		X28HC64P-12 - INTERSIL INC				
EN7467141645 IC EPLD CMS 640 PRODUCT TERMS 7128 50 NO 50 30.SEP.202 270 IC EPLD CMD 640 PRODUCT TERMS 7128 SMD Date-code to be made available along with the item EPM7128ELI84-20 - ALTERA CORPORATION EN7467203934 IC IF HCMS OCT BUFFER 74HCT241 50 NO 50 30.SEP.202 271 IC IF OCTAL BUFFER LINE DRIVER PC74HCT241P 74HCT241P 74HCT241P 74HCT241P 74HCT241P 74HCT241F - TEXAS INSTRUMENTS EN7467215835 IC IF ADC 12 BIT 574 130 NO 130 30.SEP.202 272 IC IF ADC 12 BIT PDIP-28 AD574AJN AAD574AJN ANALOG DEVICES BV MX574AJN - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 148 NO 148 30.SEP.202 EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 148 NO 148 30.SEP.202 EN7467215916 IC IF DATA CONVERTER AD7891AP-1 - ANALOG DEVICES BV AD7891AP-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 320 NO 320 30.SEP.202 EN7467220987 IC IF DAC 12 BIT 7545 320 NO 320 30.SEP.202 EN7467220987 IC IF DAC 12 BIT 7545 320 NO 320 30.SEP.202 EN7467220987 IC IF DAC 12 BIT 7545 320 NO 320 30.SEP.202 EN7467220987 IC IF DAC 12 BIT 7545 320 NO 320 30.SEP.202		AT28C64B-15PU - ATMEL CORPORATION				
270 IC EPLD CMD 640 PRODUCT TERMS 7128 SMD Date-code to be made available along with the item EPM7128ELI84-20 - ALTERA CORPORATION		X28HC64PZ-12 - INTERSIL INC				
Date-code to be made available along with the item			50	NO	50	30.SEP.2023
EPM7128ELI84-20 - ALTERA CORPORATION	270	IC EPLD CMD 640 PRODUCT TERMS 7128 SMD				
EN7467203934 IC IF HCMS OCT BUFFER 74HCT241 271 IC IF OCTAL BUFFER LINE DRIVER PC74HCT241P 74HCT241P 74HCT241P - TEXAS INSTRUMENTS EN7467215835 IC IF ADC 12 BIT 574 1272 12 IC IF ADC 12 BIT PDIP-28 AD574AJN - ANALOG DEVICES BV MK574AJN - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 AD7891AP-1 AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891AP-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 274 IC IF JA C CONVERTOR 12 BIT AD7545BQ AD7545BKN - ANALOG DEVICES BV		Date-code to be made available along with the item				
271 IC IF OCTAL BUFFER LINE DRIVER PC74HCT241P 74HCT241N - PHILIPS SEMICONDUCTORS / NXP CD74HCT241E - TEXAS INSTRUMENTS EN7467215835 IC IF ADC 12 BIT 574 130 NO 130 30.SEP.202 272 IC IF ADC 12 BIT PDIP-28 AD574AJN AD574AJN - ANALOG DEVICES BV MX574AJN - MAXIM INTEGRATED PRODS INC HI3-574AJN-5Z - INTERSIL INC AD574AJN-Z - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 273 IC IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891AP-1 - ANALOG DEVICES BV EN746720987 IC IF DAC 12 BIT 7545 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		EPM7128ELI84-20 - ALTERA CORPORATION				
LINE DRIVER PC74HCT241P 74HCT241N - PHILIPS SEMICONDUCTORS / NXP CD74HCT241E - TEXAS INSTRUMENTS EN7467215835 IC IF ADC 12 BIT 574 130 NO 130 30.SEP.202 272 IC IF ADC 12 BIT PDIP-28 AD574AJN AD574AJN - ANALOG DEVICES BV MX574AJN - MAXIM INTEGRATED PRODS INC HI3-574AJN-5Z - INTERSIL INC AD574AJNZ - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 148 NO 148 30.SEP.202 273 IC IF A/D CONVERTER AD7891AP-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		EN7467203934 IC IF HCMS OCT BUFFER 74HCT241	50	NO	50	30.SEP.2023
PC74HCT241P 74HCT241N - PHILIPS SEMICONDUCTORS / NXP CD74HCT241E - TEXAS INSTRUMENTS EN7467215835 IC IF ADC 12 BIT 574 130 NO 130 130 30.SEP.202 272 IC IF ADC 12 BIT PDIP-28 AD574AJN AD574AJN AD574AJN - ANALOG DEVICES BV MX574AJN - MAXIM INTEGRATED PRODS INC HI3-574AJNZ - INTERSIL INC AD574AJNZ - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 1C IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 1C IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV	271	IC IF OCTAL BUFFER				
74HCT241N - PHILIPS SEMICONDUCTORS / NXP CD74HCT241E - TEXAS INSTRUMENTS EN7467215835 IC IF ADC 12 BIT 574 130 NO 130 30.SEP.202 272 IC IF ADC 12 BIT PDIP-28 AD574AJN AD574AJN - ANALOG DEVICES BV MX574AJN - MAXIM INTEGRATED PRODS INC HI3-574AJNZ - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 273 IC IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 274 IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		LINE DRIVER				
CD74HCT241E - TEXAS INSTRUMENTS		PC74HCT241P				
EN7467215835 IC IF ADC 12 BIT 574 272 IC IF ADC 12 BIT PDIP-28 AD574AJN AD574AJN - ANALOG DEVICES BV MX574AJN - MAXIM INTEGRATED PRODS INC HI3-574AJNZ - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 273 IC IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 274 IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		74HCT241N - PHILIPS SEMICONDUCTORS / NXP				
2772 IC IF ADC 12 BIT PDIP-28 AD574AJN AD574AJN AD574AJN - ANALOG DEVICES BV MX574AJN - MAXIM INTEGRATED PRODS INC HI3-574AJN-5Z - INTERSIL INC AD574AJNZ - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 148		CD74HCT241E - TEXAS INSTRUMENTS				
12 BIT PDIP-28		EN7467215835 IC IF ADC 12 BIT 574	130	NO	130	30.SEP.2023
AD574AJN AD574AJN - ANALOG DEVICES BV MX574AJN - MAXIM INTEGRATED PRODS INC HI3-574AJN-5Z - INTERSIL INC AD574AJNZ - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 1C IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891AP2-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 1C IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV	272	IC IF ADC				
AD574AJN - ANALOG DEVICES BV MX574AJN - MAXIM INTEGRATED PRODS INC HI3-574AJN-5Z - INTERSIL INC AD574AJNZ - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 IC IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		12 BIT PDIP-28				
MX574AJN - MAXIM INTEGRATED PRODS INC HI3-574AJN-5Z - INTERSIL INC AD574AJNZ - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 10 IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 1C IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		AD574AJN				
HI3-574AJN-5Z - INTERSIL INC AD574AJNZ - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 1C IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 1C IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		AD574AJN - ANALOG DEVICES BV				
AD574AJNZ - ANALOG DEVICES BV EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 10 IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		MX574AJN - MAXIM INTEGRATED PRODS INC				
EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 10 IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		HI3-574AJN-5Z - INTERSIL INC				
273 IC IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 320 NO 320 30.SEP.202 274 IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		AD574AJNZ - ANALOG DEVICES BV				
AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891	148	NO	148	30.SEP.2023
AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV	273	IC IF A/D CONVERTER				
AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV EN7467220987 IC IF DAC 12 BIT 7545 320 NO 320 30.SEP.202 274 IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV						
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EN7467220987 IC IF DAC 12 BIT 7545 274 IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		AD7891AP-1 - ANALOG DEVICES BV				
IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		AD7891APZ-1 - ANALOG DEVICES BV				
12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV		EN7467220987 IC IF DAC 12 BIT 7545	320	NO	320	30.SEP.2023
AD7545BQ AD7545AKN - ANALOG DEVICES BV	274	IC IF D/A CONVERTOR				
AD7545AKN - ANALOG DEVICES BV		12 BIT				
		AD7545BQ				
AD7545AKNZ - ANALOG DEVICES BV		AD7545AKN - ANALOG DEVICES BV				
		AD7545AKNZ - ANALOG DEVICES BV				
EN7467225938 IC IF CMOS HEX LEVEL-SHIFT SO-16 4050BD 72 NO 72 30.SEP.202		EN7467225938 IC IF CMOS HEX LEVEL-SHIFT SO-16 4050BD	72	NO	72	30.SEP.2023
275 CD4050BD - TEXAS INSTRUMENTS	275	CD4050BD - TEXAS INSTRUMENTS				
MC14050BD - FREE SCALE SEMI CONDUCTOR		MC14050BD - FREE SCALE SEMI CONDUCTOR				
EN7467231873 IC DGTL HCMS DATA SELECTOR 74HCT251 190 NO 190 30.SEP.202		EN7467231873 IC DGTL HCMS DATA SELECTOR 74HCT251	190	NO	190	30.SEP.2023
276 IC IF 8 INPUT	276	IC IF 8 INPUT				

For and On behalf of BHEL.

Page 65 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

VENUE : SUB ASSLY PUR

PURCHASE FILE COPY

(for all correspondence)

Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	MULTIPLEXER				
	PC74HCT251P				
	74HCT251N - PHILIPS SEMICONDUCTORS / NXP				
	CD74HCT251E - TEXAS INSTRUMENTS				
	EN7467231881 IC DGTL HCMS DATA SELECTOR 74HC251 SMD	300	NO	300	30.SEP.2023
277	IC IF 8 INPUT				
	MULTIPLEXER SMD				
	MC74HC251D				
	SN74HC251D - TEXAS INSTRUMENTS				
	MC74HC251D - ON SEMI CONDUCTOR				
	74HC251D - PHILIPS SEMICONDUCTORS / NXP				
-	MM74HC251M - ON SEMI CONDUCTOR				
	EN7467510888 IC DGTL CMS 2 I/P AND GATE 4081B SMD	500	NO	500	30.SEP.2023
278	IC DGTL AND GATE 14 PIN SMD CMOS				
	MC14081BD				
	MC14081BDG - ON SEMI CONDUCTOR				
	HEF4081BT - PHILIPS SEMICONDUCTORS / NXP				
	EN7467514883 IC DGTL CMS 2 I/P NAND GATE 4011B SMD	450	NO	450	30.SEP.2023
270	IC DGTL NAND GATE 14 PIN SMD CMOS	430	NO	430	30.3EF.2023
219	MC14011BD				
	WEITOTIBB				
	OEM PACKING ONLY				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE				
	MC14011BDG - ON SEMI CONDUCTOR				
	HEF4011BT - PHILIPS SEMICONDUCTORS / NXP				
	CD4011BM - TEXAS INSTRUMENTS				
	CD4011BCM - ON SEMI CONDUCTOR				
	EN7467519923 IC DGTL HCMS 8 I/P OR/NOR GATE 74HC4078	250	NO	250	30.SEP.2023
280	IC DIGITAL 8 I/P				
	NOR-OR GATE				
	MC74HC4078N				
	SN74HC4078AN - TEXAS INSTRUMENTS				
	MC74HC4078N - ON SEMI CONDUCTOR				
	M74HC4078B1R - SGS THOMSON MICROELECTRONICS				
	MM74HC4078N - ON SEMI CONDUCTOR	00			
	EN7467522991 IC DGTL HCMS DUAL XNOR GATE 74HC7266	60	NO	60	30.SEP.2023
281	IC DGTL QUAD 2 I/P				
	EX-NOR GATE 14 PIN				

For and On behalf of BHEL.

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ПИН

MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

RFQ DATE : 04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

> VENUE : SUB ASSLY PUR

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Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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For and On behalf of BHEL.

Page 67 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PR No. 2606 Mysora Bond Pangalora, 560026

PB No. 2606, Mysore Road Bangalore - 560026 INDIA RFQ NUMBER: CKGOT00029

RFQ DATE:

04.MAY.2023

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	M82C54A-2 - OKI SEMICONDUCTORS.				
287	EN7467632983 IC IF MOS PERIPHRL INTERFACE 9901 IC MP PROGRAMMABLE SYSTEM INTERFACE TMS9901JL ICS TO BE 100% INSPECTED FOR FUNCTION- ALITY. DEFECTIVE ICS TO BE REPLACED BY THE VENDOR. TMS9901JL - TEXAS INSTRUMENTS TMS9901NL - TEXAS INSTRUMENTS DRW PROP_REF:TEX.36-08/29/06 00	95	NO	95	30.SEP.2023
288	EN7467632991 IC MP PROGRAMMABLE INTERVAL TIMER 82C54 IC MP PROGRAMMABLE INTERVAL TIMER PROCESSA PROCES	90	NO	90	30.SEP.2023
289	EN7468047898 OPTOCOUPLER DUAL MCT6 DIP-8 DUAL PHOTOTRANSISTOR MCT6 MCT6 - VISHAY INTER TECHNOLOGY ASIA PTE. L MCT6 - ON SEMI CONDUCTOR Test Certificate	3,000	NO	3,000	30.SEP.2023
290	EN7470198962 PC/104 + 2 Ethernet + 24 DGTL I/O MERCATOR II 2X2 QUAD 10/100 ETHERNET + 24 GPIO MRC-424-XT REV A DATE CODE OF THE ITEM TO BE WITHIN 1 YR FROM INVOICE DATE. SUPPLIED ITEMS TO BE COVERED UNDER 2 YEARS WARRANTY FROM INVOICE DATE. OEM COC AND WARRANTY CERTIFICATE TO BE SUBMITTED WITH THE MATERIAL SUPPLY. MRC-424-XT - DIAMOND SYSTEMS CORPORATION Test Certificate	38	NO	38	30.SEP.2023
291	EN7470198970 PC 104 Compatible 96 DI/O FPGA I/O ,96 PIN DIGITAL I/O PC/104 MODULE GPIO-MM-21-XT REV B DATE CODE OF THE ITEM TO BE WITHIN 1 YR	10	NO	10	30.SEP.2023

For and On behalf of BHEL.

Page 68 OF 69

ПДП

MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

RFO DATE:

04.MAY.2023

| 1

Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	FROM INVOICE DATE. SUPPLIED ITEMS TO BE COVERED UNDER 2 YEARS WARRANTY FROM INVOICE DATE.				
	OEM COC AND WARRANTY CERTIFICATE TO BE SUBMITTED WITH THE MATERIAL SUPPLY.				
	GPIO-MM-21-XT - DIAMOND SYSTEMS CORPORATION Test Certificate				

Total Number of Items - 291

Please note that the tender will be opened in the presence of the bidders or his authorised representatives (maximum two per organisation) who choose to be present with authorisation letters. Refer annexure for the terms and conditions.

Preference will be given to vendors who accepts our standard payment terms i.e.100% payment - 30 days after receipt of material at our works subject to acceptance. Please specify Terms of delivery, Excise duty, sales tax, Ex-BHEL, Ex-works surcharge, Insurance, P&F, Freight and other taxes very clearly.

For evaluation, exchange rate(TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid incase of two part bid) shall be considered.

The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com

- i). This is only RFQ not an order.
- ii). In all correspondence quote RFQ No. & due date.
- iii). In Quotation BHEL material code / RFQ Sl. No. should be mentioned clearly.
- iv). Quotation Envelope / Fax not superscribed with RFQ No. and due date is liable for rejection.
- v). Quotation should remain valid for a minimum peiod of 90 days from due date.
- vi). In case of non-receipt of Quotation or regret letter for 3 consecutive RFQs you are liable to be removed from our vendors list.
- vii). All Prices should be written in words and numbers.
- viii). Excise Chapter Heading should be mentioned for all items where VAT is applicable .

Vendors list to whom RFQ has been sent:

1. BHEL, Electronics Division (X563699) - 6400156143

For and On behalf of BHEL.

Page 69 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026

INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,, BANGALORE - 560026

Karnataka India

(for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
1	CN9065425004 IC LIN MULTIPLIER 2 % AD532JH IC LIN MULTPR 2 % TO-100 AD532JH	30	NO	30	30.SEP.2023
	AD532JHZ - ANALOG DEVICES BV AD532KH - ANALOG DEVICES BV AD533KH - ANALOG DEVICES BV				
2	CN9065462023 IC LIN ANALOG SWITCH QUAD DG201ACJ IC LIN SWITCH QUAD DIP P DG201ACJ ADG201AKN - ANALOG DEVICES BV DG201ACJ - INTERSIL INC LTC201ACN - LINEAR TECHNOLOGY CORPORATION DG201ACJ - MAXIM INTEGRATED PRODS INC HI1-201-5 - INTERSIL INC	200	NO	200	30.SEP.2023
	DG201ACJ - VISHAY INTER TECHNOLOGY ASIA PTE. L				
3	CN9065462074 IC LIN ANALOG SWITCH QUAD DG201ABK IC LIN DG201ABK SWITCH QUAD DIP C -25 TO 85øC DG201ABK - MAXIM INTEGRATED PRODS INC DG201ABK - VISHAY INTER TECHNOLOGY ASIA PTE. L LTC201ACN - LINEAR TECHNOLOGY CORPORATION ADG201AKN - ANALOG DEVICES BV ADG201AKNZ - ANALOG DEVICES BV	20	NO	20	30.SEP.2023
4	CN9065472010 IC LIN OPAMP QUAD LM148J IC LIN OPAMP QUAD DIP 14P LM148J LM148J LM148J - NATIONAL SEMICONDUCTORS LM148D - RAYTHEON COMPANY LM148J - SGS THOMSON MICROELECTRONICS LM148J - TEXAS INSTRUMENTS LM148J - ON SEMI CONDUCTOR PM148Y - PRECISION MONOLYTHIC INC LM148J - FREE SCALE SEMI CONDUCTOR	109	NO	109	30.SEP.2023
5	CN9065477020 IC LIN OPAMP SING LM308AN IC LIN OPAMP SING DIP 8P LM308AN LM308AN - INTERSIL INC LM308AN - NATIONAL SEMICONDUCTORS	360	NO	360	30.SEP.2023

For and On behalf of BHEL.

Page 1 OF *



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026

INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	LM308AN - SGS THOMSON MICROELECTRONICS				
	LM308AP - TEXAS INSTRUMENTS				
	LM308AN - ON SEMI CONDUCTOR				
	PM308AZ - PRECISION MONOLYTHIC INC				
	LM308AN - FREE SCALE SEMI CONDUCTOR				
	CN9065483055 IC LIN VOLT REG POS FIX 15V LM7815CK	11	NO	11	30.SEP.2023
6	IC LIN VOLT REG POS				
	FIX 15V,TO-3				
	LM7815CK				
	LM7815CK - NATIONAL SEMICONDUCTORS				
	L7815CT - SGS THOMSON MICROELECTRONICS				
	MC7815CK - ON SEMI CONDUCTOR				
	7815CDA - PHILIPS SEMICONDUCTORS / NXP				
	MC7815CK - FREE SCALE SEMI CONDUCTOR	000	_	000	
_	CN9065486100 IC LIN COMPARATOR QUAD LM139J	300	NO	300	30.SEP.2023
7	IC LIN CMPRTR				
	DIP 14C				
	LM139J				
	LM139N - SGS THOMSON MICROELECTRONICS LM139J - TEXAS INSTRUMENTS				
	LM139J - ON SEMI CONDUCTOR				
	CN9065486232 IC LIN COMPARATOR QUAD CA139AF	205	NO	205	30.SEP.2023
8	IC LIN CMPRTR QUAD	203	NO	203	30.3EF.2023
	DIP 14P				
	CA139AF				
	LM139AJ - SGS THOMSON MICROELECTRONICS				
	LM139AJ - TEXAS INSTRUMENTS				
	CN9065487042 IC LIN OPAMP QUAD LM348NA+	275	NO	275	30.SEP.2023
9	IC LIN OPAMP QUAD		-10		
	DIP 14P				
	LM348NA+				
	LM348N - NATIONAL SEMICONDUCTORS				
	LM348N - SGS THOMSON MICROELECTRONICS				
	LM348N - TEXAS INSTRUMENTS				
	LM348N - ON SEMI CONDUCTOR				
	PM348Y - PRECISION MONOLYTHIC INC				
	LM348N - FREE SCALE SEMI CONDUCTOR				
	CN9065488219 IC LIN VOLT REG POS FIX 12V LM340T-12	50	NO	50	30.SEP.2023
10	IC LIN VOLT REG POS				
	FIX 12V,TO-220				
	LM340T-12				
	LM340T-12 - MOTOROLA SEMICONDUCTORS INC				
	LM340T-12 - NATIONAL SEMICONDUCTORS				

For and On behalf of BHEL.

Page 2 OF *



BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

RFO DATE:

04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

MMI:PU:RF:003

To: BHEL, Electronics Division (X563699)

MYSORE ROAD,, BANGALORE - 560026 Karnataka India (for all correspondence)

Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	LM340T-12 - ON SEMI CONDUCTOR				
	SG340-12G - MICROSEMI IRELEND				
	L7812CV - SGS THOMSON MICROELECTRONICS				
	CN9065504010 IC LIN OPAMP SING TAA761A	50	NO	50	30.SEP.2023
11	IC LIN OPAMP DIP 6P TAA761A				
	ICS TO BE 100% INSPECTED FOR FUNCTION-				
	ALITY. DEFECTIVE ICS TO BE REPLACED BY				
	THE VENDOR.				
	TAA761A - SIEMENS AG/UB KWU				
	TAA762A - SIEMENS AG/UB KWU				
	TAA765A - SIEMENS AG/UB KWU				
	DRW PROP_REF:SEG.31-09/20/05 00				
	CN9065507019 IC LIN OPAMP SING OP07CP	50	NO	50	30.SEP.2023
12	IC LIN OPAMP SING				
	DIP 8P				
	OP07CP				
	OP07CP - ANALOG DEVICES BV				
	OP07CNB - LINEAR TECHNOLOGY CORPORATION				
	OP07CP - TEXAS INSTRUMENTS				
	CN9065542035 IC IF DAC 8 BIT 1408	139	NO	139	30.SEP.2023
13	IC LIN MC1408L				
	AM1408L8 - ADVANCE MICRO DEVICES INC				
	DAC0808LCJ - NATIONAL SEMICONDUCTORS				
	DAC0808LCN - NATIONAL SEMICONDUCTORS	50	270	50	00.055.000
1 ,,	CN9065547010 IC LIN VOLTAGE REF 10V IC LIN LH0070-OH	50	NO	50	30.SEP.2023
14	VOLREF TO-5				
	-55 TO 125øC 10V				
	LH0070-0H - LINEAR TECHNOLOGY CORPORATION				
	LT1031DCH - LINEAR TECHNOLOGY CORPORATION				
	AD581JH - ANALOG DEVICES BV				
	CN9065577050 IC LIN OPAMP QUAD LM108AH	135	NO	135	30.SEP.2023
15	IC LIN OPAMP QUAD		140		30.321 .2020
	TO-78				
	LM108AH				
	LM108AH - LINEAR TECHNOLOGY CORPORATION				
	LM108AH - NATIONAL SEMICONDUCTORS				
	LM108AH - SGS THOMSON MICROELECTRONICS				
	LM108AL - TEXAS INSTRUMENTS				
	PM1008AJ - PRECISION MONOLYTHIC INC				
	LM108AT - INTERSIL INC				
	CN9065701010 IC MP PROGRAMMABLE INTRVL TIMR 82C54	420	NO	420	30.SEP.2023
16					

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

RFQ DATE : 04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699) MYSORE ROAD,,

BANGALORE - 560026

Karnataka India

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Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	IC MP P82C54-2N				
	CMS				
	P82C54-2N - ADVANCE MICRO DEVICES INC				
	P82C54-2 - INTEL CORPORATION				
	M082C54-2 - OKI SEMICONDUCTORS.				
	CN9065702016 IC MP COMMUNICATION IF 8251A	20	NO	20	30.SEP.2023
17	IC MP P8251A				
	NMOS				
	P8251A - ADVANCE MICRO DEVICES INC				
	P8251A - INTEL CORPORATION				
	D71051C - NEC CORP				
	UPD8251A - NEC CORP				
	UPD8251AC - NEC CORP				
	CN9065704019 IC MP COMMUNICATION CONTROLLER 9902	110	NO	110	30.SEP.2023
18	IC MP COMMUNICATIONS CONTROLLER				
	TMS9902ANL				
	ICS TO BE 100% INSPECTED FOR FUNCTION-				
	ALITY. DEFECTIVE ICS TO BE REPLACED BY				
	THE VENDOR.				
	TMS9902ANL - TEXAS INSTRUMENTS				
	DRW PROP_REF:TEX.25-08/29/06 00				
	CN9065705015 IC MP MICROCONTROLLER 8 BIT 9995	305	NO	305	30.SEP.2023
19	IC MICROCOMPUTER TMS9995NL-12				
	ALL ICs TO BE TESTED FOR FULL FUNCTIONALITY				
	DURING BHEL-GI QUALITY INSPECTION STAGE.				
	ICs WHICH ARE PASSING THE TEST ONLY TO BE				
	ACCEPTED.				
	REST TO BE REJECTED.				
	REJECTED ICs TO BE REPLACED BY THE VENDOR				
	TMCCCCCNII 40 TEVAC INICTELIAENTO				
	TMS9995NL-12 - TEXAS INSTRUMENTS				
	TMS9995JDL-12 - TEXAS INSTRUMENTS	450		450	
	CN9065713026 IC MP MOTHER BOARD CLK GENERATOR 82284	150	NO	150	30.SEP.2023
20					
	D82284-6 - INTEL CORPORATION				
	P82284-6 - INTEL CORPORATION				
	SAB82284-P - (DELETED)	4.40		440	
	CN9065714014 IC MP NMS 82288	140	NO	140	30.SEP.2023
21	IC MP P82288				
	NIMC				
	NMS				
	P82288 - INTEL CORPORATION				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,,
BANGALORE - 560026
Karnataka India

(for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR Phone : 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	P82288-8 - INTEL CORPORATION				
	D82288 - INTEL CORPORATION				
	D82288-8 - INTEL CORPORATION				
	M82288 - INTEL CORPORATION				
	M82288-8 - INTEL CORPORATION				
	CN9065809015 IC DGTL CMS QUAD 2 I/P NOR GATE 4001B	30	NO	30	30.SEP.2023
22	IC DGTL CD4001BE				
	CMS				
	CD4001BE - HARRIS SEMICONDUCTOR				
	MC14001BCP - ON SEMI CONDUCTOR				
	CD4001BCN - NATIONAL SEMICONDUCTORS				
	CD4001BE - TEXAS INSTRUMENTS				
	CD4001BCN - ON SEMI CONDUCTOR				
	CN9065843019 IC DGTL FZH115B	50	NO	50	30.SEP.2023
23	IC DGTL FZH115B				
	FZH115 - EPCOS AG				
	FZH115B - EPCOS AG				
	CN9065886001 IC DGTL FZK105	100	NO	100	30.SEP.2023
24	IC DGTL FZK105				
	FZK105 - EPCOS AG				
	DRW PROP_REF:SIB.28-06/05/04 00				
	DRW PROP_REF:SIB.5-09/07/06 00				
	CN9065902031 IC DGTL TTL QUAD 2 I/P NAND GATE 74LS00	140	NO	140	30.SEP.2023
25	IC DGTL SN74LSOON				
	SN74LS00N - TEXAS INSTRUMENTS				
	SN74LS00N - ON SEMI CONDUCTOR				
	DM74LS00N - ON SEMI CONDUCTOR				
	CN9065903046 IC DGTL TTL QUAD 2 I/P AND GATE 74LS08	600	NO	600	30.SEP.2023
26	IC DGTL SN74LS08N				
	SN74LS08N - TEXAS INSTRUMENTS				
	SN74LS08N - ON SEMI CONDUCTOR				
	DM74LS08N - ON SEMI CONDUCTOR				
T	CN9065903054 IC DGTL TTL QUAD 2 I/P AND GATE 74S08	120	NO	120	30.SEP.2023
	IC DGTL SN74S08N				
	74S08PC - NATIONAL SEMICONDUCTORS				
	N74S08N - SIGNATIC CORPORATION				
	SN74S08N - TEXAS INSTRUMENTS				
l	74S08PC - ON SEMI CONDUCTOR				
	CN9065904034 IC DGTL TTL TRPL 3 I/P NAND GATE 74LS10	40	NO	40	30.SEP.2023
28	IC DGTL 3 I/P NAND				
	PDIP-14				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

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To:

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	SN74LS10N				
	SN74LS10N - TEXAS INSTRUMENTS				
	SN74LS10N - ON SEMI CONDUCTOR				
	DM74LS10N - ON SEMI CONDUCTOR				
	CN9065907025 IC DGTL TTL QUAD 2 I/P OR GATE 74LS32	20	NO	20	30.SEP.2023
29	IC DGTL SN74LS32N				
	SN74LS32N - TEXAS INSTRUMENTS				
	SN74LS32N - ON SEMI CONDUCTOR				
	DM74LS32N - ON SEMI CONDUCTOR				
	CN9065908137 IC DGTL TTL DUAL D FF 74LS74	1,060	NO	1,060	30.SEP.2023
30	IC DGTL SN74LS74N				
	SN74LS74AN - TEXAS INSTRUMENTS				
	SN74LS74AN - ON SEMI CONDUCTOR				
	DM74LS74N - ON SEMI CONDUCTOR				
	CN9065908145 IC DGTL TTL DUAL D FF 74S74	120	NO	120	30.SEP.2023
31	IC DGTL SN74S74N				
	DM74S74N - NATIONAL SEMICONDUCTORS				
	N74S74N - SIGNATIC CORPORATION				
	SN74S74N - TEXAS INSTRUMENTS				
	N74S74N - PHILIPS SEMICONDUCTORS / NXP				
	DM74S74N - ON SEMI CONDUCTOR				
	CN9065913033 IC DGTL TTL HEX INVERTER 74LS04	350	NO	350	30.SEP.2023
32					
	SN74LS04N - TEXAS INSTRUMENTS				
	SN74LS04N - ON SEMI CONDUCTOR				
	DM74LS04N - ON SEMI CONDUCTOR				
	CN9065914048 IC DGTL TTL HEX INVERTER 74LS05	725	NO	725	30.SEP.2023
33	IC IF SN74LS05N				
	SN74LS05N - TEXAS INSTRUMENTS				
	SN74LS05N - ON SEMI CONDUCTOR				
	DM74LS05N - ON SEMI CONDUCTOR	100		100	
_	CN9065921001 IC IF TTL OCT BUFFER 74LS244	120	NO	120	30.SEP.2023
34					
	SN74LS244N - TEXAS INSTRUMENTS				
	SN74LS244N - ON SEMI CONDUCTOR				
	DM74LS244N - ON SEMI CONDUCTOR	0.40		0.40	
	CN9065985026 IC IF TTL HEX INVRTR SCHMT TRG 74LS14	240	NO	240	30.SEP.2023
35	IC IF SN74LS14N				
	SN74LS14N - TEXAS INSTRUMENTS				
	SN74LS14N - ON SEMI CONDUCTOR				
	DM74LS14N - ON SEMI CONDUCTOR	4.40	27.0	140	00.055.0000
	CN9065994025 IC IF TTL QUAD INV-BUFFER 74LS38	140	NO	140	30.SEP.2023

For and On behalf of BHEL.

Page 6 OF *



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	IC DGTL SN74LS38N				
36	SN74LS38N - TEXAS INSTRUMENTS				
	SN74LS38N - ON SEMI CONDUCTOR				
	DM74LS38N - ON SEMI CONDUCTOR				
	CN9065997016 IC DGTL TTL AND-OR-INV GATE 74LS51	105	NO	105	30.SEP.2023
37	IC DGTL SN74LS51N				
	T74LS51-B1/D1 - SGS THOMSON MICROELECTRONICS				
	TEXAS INSTRUMENTS				
	CN9066006021 IC DGTL TTL DUAL JK FF 74LS112	300	NO	300	30.SEP.2023
38	IC DGTL SN74LS112AN				
	SN74LS112AN - TEXAS INSTRUMENTS				
	SN74LS112AN - ON SEMI CONDUCTOR				
	DM74LS112AN - ON SEMI CONDUCTOR				
	CN9066013028 IC DGTL TTL 3TO8 LINE DECDR 74S138	400	NO	400	30.SEP.2023
39	IC DGTL SN74S138N				
	SN74S138AN - TEXAS INSTRUMENTS				
	SN74S138N - TEXAS INSTRUMENTS				
	N74S138N - PHILIPS SEMICONDUCTORS / NXP				
	74S138 - ON SEMI CONDUCTOR				
	CN9066023023 IC DGTL TTL QUAD D FF 74S175	40	NO	40	30.SEP.2023
40	IC DGTL SN74S175N				
	SN74S175N - TEXAS INSTRUMENTS				
	74S175N - SIGNATIC CORPORATION				
	DM74S175N - NATIONAL SEMICONDUCTORS				
	DM74S175N - ON SEMI CONDUCTOR	550		550	
4.1	CN9066023031 IC DGTL TTL QUAD D FF 74LS175	550	NO	550	30.SEP.2023
41	IC DGTL SN74LS175N QUAD D-FF				
	PDIP-16				
	SN74LS175N - TEXAS INSTRUMENTS				
	DRW PROP_REF:TEX.32-08/29/06 00				
	CN9066039019 IC IF TTL OCT BUFFER 74LS240	320	NO	320	30.SEP.2023
12	IC IF SN74LS240N	320	INO] 320	30.3LF.2023
44	SN74LS240N - TEXAS INSTRUMENTS				
	SN74LS240N - ON SEMI CONDUCTOR				
	DM74LS240N - ON SEMI CONDUCTOR				
	CN9066052090 IC DGTL TTL QUAD SR LATCH 74LS279	210	NO	210	30.SEP.2023
43	IC DGTL SN74LS279AN	[[140	[30.321 .2020
-3					
	CN9066058013 IC DGTL TTL DUAL BINARY CNTR 74LS393	100	NO	100	30.SEP.2023
43	SN74LS279AN - TEXAS INSTRUMENTS SN74LS279N - ON SEMI CONDUCTOR DM74LS279N - ON SEMI CONDUCTOR	100	NO	100	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Phone: 08026989133

Fax : E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	IC DGTL SN74LS393N				
44	SN74LS393N - TEXAS INSTRUMENTS				
	CN9066059010 IC DGTL TTL OCT D-LATCH 74LS373	230	NO	230	30.SEP.2023
45	IC DGTL SN74LS373N				
	SN74LS373N - TEXAS INSTRUMENTS				
	CN9066060018 IC DGTL TTL OCT D FF 74LS374	1,020	NO	1,020	30.SEP.2023
46	IC DGTL SN74LS374N	1,525		,,,,,	
	SN74LS374N - TEXAS INSTRUMENTS				
	SN74LS374N - ON SEMI CONDUCTOR				
	DM74LS374N - ON SEMI CONDUCTOR				
	CN9066067128 IC DGTL HCMS TRPL 3 I/P NOR GATE 74HC27	200	NO	200	30.SEP.2023
47	IC DGTL SN74HC27N	200	110		00.021 .2020
''	CD74HC27E - TEXAS INSTRUMENTS				
	SN74HC27N - TEXAS INSTRUMENTS				
	MC74HC27N - ON SEMI CONDUCTOR				
	HD74HC27P - HITACHI LTD.				
	74HC27N - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC27N - ON SEMI CONDUCTOR				
	CN9066067250 IC DGTL HCMS QUAD 2 I/P XOR GATE 74HC86	100	NO	100	30.SEP.2023
48	IC DGTL SN74HC86N		2.0		00.022020
	201201111110001				
	CMS				
	74HC86N - PHILIPS SEMICONDUCTORS / NXP				
	CD74HC86E - TEXAS INSTRUMENTS				
	SN74HC86N - TEXAS INSTRUMENTS				
	MC74HC86N - ON SEMI CONDUCTOR				
	MM74HC86N - ON SEMI CONDUCTOR				
	CN9066067357 IC DGTL HCMS 3TO8 LINE DECDR 74HC138	200	NO	200	30.SEP.2023
49	IC DGTL SN74HC138N				
	CMS				
	74HC138N - PHILIPS SEMICONDUCTORS / NXP				
	CD74HC138E - TEXAS INSTRUMENTS				
	SN74HC138N - TEXAS INSTRUMENTS				
	MC74HC138AN - ON SEMI CONDUCTOR				
	MM74HC138N - ON SEMI CONDUCTOR				
	CN9066067462 IC DGTL HCMS 4 BIT BINARY CNTR 74HC163	30	NO	30	30.SEP.2023
50	IC DGTL SN74HC163N				
	CMS				
	74HC163N - PHILIPS SEMICONDUCTORS / NXP				
	CD74HC163E - TEXAS INSTRUMENTS				
	CD. HIGHOUT TEACHERTO				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026

INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,,
BANGALORE - 560026
Karnataka India

(for all correspondence)
Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	SN74HC163N - TEXAS INSTRUMENTS				
	MC74HC163AN - ON SEMI CONDUCTOR				
	MM74HC163N - ON SEMI CONDUCTOR				
	CN9066067608 IC IF HCMS OCT BUFFER 74HC241	80	NO	80	30.SEP.2023
51	IC DGTL SN74HC241N				
	CMS				
	74HC241N - PHILIPS SEMICONDUCTORS / NXP				
	CD74HC241E - TEXAS INSTRUMENTS				
	SN74HC241N - TEXAS INSTRUMENTS				
	MC74HC241AN - ON SEMI CONDUCTOR				
	MM74HC241N - ON SEMI CONDUCTOR				
	CN9066067632 IC IF HCMS OCT BUFFER 74HC244	100	NO	100	30.SEP.2023
52	IC DGTL SN74HC244N				
	CMS				
	CD74HC244E - TEXAS INSTRUMENTS				
	SN74HC244N - TEXAS INSTRUMENTS				
	MC74HC244AN - ON SEMI CONDUCTOR				
	74HC244N - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC244N - ON SEMI CONDUCTOR				
	CN9066071010 IC DGTL TTL QUAD 2 I/P NAND GATE 74AS00	390	NO	390	30.SEP.2023
53	IC DGTL SN74AS00N				
	DM74AS00N - NATIONAL SEMICONDUCTORS				
	SN74AS00N - TEXAS INSTRUMENTS				
	CN9066081015 IC DGTL HCMS 2 I/P NAND GATE 74HC00 SMD	900	NO	900	30.SEP.2023
54	IC DGTL HCMOS				
	MC74HC00AD, SMD				
	QUAD 2-I/P NAND SO				
	CD74HC00M - TEXAS INSTRUMENTS				
	SN74HC00D - TEXAS INSTRUMENTS				
	MC74HC00AD - ON SEMI CONDUCTOR				
	74HC00D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC00M - ON SEMI CONDUCTOR				
	CN9066081066 IC DGTL HCMS 2 I/P AND GATE 74HC08 SMD	100	NO	100	30.SEP.2023
55	IC DGTL HCMOS				
	MC74HC08AD, SMD				
	QUAD 2-I/P AND SO				
	CD74HC08M - TEXAS INSTRUMENTS				
	SN74HC08D - TEXAS INSTRUMENTS				
	MC74HC08AD - ON SEMI CONDUCTOR				
	74HC08D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC08M - ON SEMI CONDUCTOR				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CN9066081082 IC DGTL HCMS 3 I/P AND GATE 74HC11 SMD	300	NO	300	30.SEP.2023
56	IC DGTL HCMOS				
	MC74HC11D, SMD				
	TRIP 3-I/P AND SO				
	CD74HC11M - TEXAS INSTRUMENTS				
	74HC11D - PHILIPS SEMICONDUCTORS / NXP				
	SN74HC11D - TEXAS INSTRUMENTS				
	CN9066081139 IC DGTL HCMS 2 I/P OR GATE 74HC32 SMD	700	NO	700	30.SEP.2023
57	IC DGTL HCMOS				
	MC74HC32AD, SMD				
	QUAD 2-I/P OR SO				
	CD74HC32M - TEXAS INSTRUMENTS				
	MC74HC32AD - ON SEMI CONDUCTOR				
	74HC32D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC32M - ON SEMI CONDUCTOR				
	CN9066081155 IC DGTL HCMS DUAL D FF 74HC74 SMD	4,800	NO	4,800	30.SEP.2023
58	IC DGTL HCMOS				
	MC74HC74AD, SMD				
	DUAL D-F/F				
	CD74HC74M - TEXAS INSTRUMENTS				
	MC74HC74AD - ON SEMI CONDUCTOR				
	74HC74D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC74AM - ON SEMI CONDUCTOR				
	CN9066081171 IC DGTL HCMS MAGNTD CMPRTR 74HC85 SMD	760	NO	760	30.SEP.2023
59	IC DGTL HCMOS				
	PC74HC85T SMD, SMD				
	4-BIT MAG COMP SO				
	CD74HC85M - TEXAS INSTRUMENTS				
	74HC85D - PHILIPS SEMICONDUCTORS / NXP				
	CN9066081236 IC IF HCMS NAND SCHMT TRG 74HC132 SMD	1,428	NO	1,428	30.SEP.2023
60	IC DGTL HCMOS				
	MC74HC132AD SMD, SMD				
	QUAD2I/P NAND SCH SO				
	CD74HC132M - TEXAS INSTRUMENTS				
	SN74HC132D - TEXAS INSTRUMENTS				
	MC74HC132AD - ON SEMI CONDUCTOR				
	74HC132D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC132M - ON SEMI CONDUCTOR				
	CN9066081279 IC DGTL HCMS 2-4 LINE DECDR 74HC139 SMD	800	NO	800	30.SEP.2023
61	IC DGTL HCMOS				
	MC74HC139AD, SMD				
	DUAL 2-4DEMUX SO				
	CD74HC139M - TEXAS INSTRUMENTS				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	MC74HC139AD - ON SEMI CONDUCTOR				
	MC74HC139AG - ON SEMI CONDUCTOR				
	74HC139D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC139M - ON SEMI CONDUCTOR				
	CN9066081597 IC DGTL HCMS BINARY CNTR 74HC393 SMD	1,000	NO	1,000	30.SEP.2023
62	IC DGTL HCMOS				
	MM74HC393M, SMD				
	DUAL 4BIT RIP COU SO CD74HC393M - TEXAS INSTRUMENTS				
	74HC393D - PHILIPS SEMICONDUCTORS / NXP				
	SN74HC393D - TEXAS INSTRUMENTS				
	CN9066081716 IC DGTL HCMS MAGNTD COMPRTR 74HC688	1,300	NO	1,300	30.SEP.2023
63	SMD	1,500	110	1,500	30.3L1 .2023
0.5	IC DGTL HCMOS				
	MC74HC688DW, SMD				
	8BIT MAG COMP SO				
	CD74HC688M - TEXAS INSTRUMENTS				
	MC74HC688DW - ON SEMI CONDUCTOR				
	74HC688D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC688WM - ON SEMI CONDUCTOR				
	CN9066081880 IC DGTL HCMS MONOSTABLE MV 74HC4538 SMD	400	NO	400	30.SEP.2023
64	IC DGTL HCMOS MC74HC4538AD, SMD				
	DUAL MONOSHOT RET SO				
	OEM DACIVING ONLY				
	OEM PACKING ONLY DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE				
	CD74HC4538M - TEXAS INSTRUMENTS				
	MC74HC4538AD - ON SEMI CONDUCTOR				
	MM74HC4538M - ON SEMI CONDUCTOR				
	CN9066082046 IC DGTL HCMS 2 I/P OR GATE 74HCT32 SMD	100	NO	100	30.SEP.2023
65	DATE CODE TO BE LESS THAN 36 MONTHS				
	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF				
	DEVIATION FROM THE ABOVE.				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CD74HCT32M - TEXAS INSTRUMENTS				
	74HCT32D - NEXPERIA				
	CN9066212055 IC IF TTL QUAD LINE RECVR 26LS32	100	NO	100	30.SEP.2023
66	IC IF DS26LS32CN				
	AM26LS32PC				
	AM26LS32ACN - TEXAS INSTRUMENTS				
	AM26LS32CN - TEXAS INSTRUMENTS				
	CN9066223049 IC MP NMS INTERRUPT CONTROLLER 8259	52	NO	52	30.SEP.2023
67	IC MP 8259A			_	
	NMS				
	P8259A - INTEL CORPORATION				
	UPD8259AC - NEC CORP				
	CN9066225106 IC MP 8 BIT BUS TRANSCVR 8287	110	NO	110	30.SEP.2023
68	IC MP P8287				
	D8287 - ADVANCE MICRO DEVICES INC				
	P8287 - ADVANCE MICRO DEVICES INC				
	P8287 - INTEL CORPORATION				
	D71087C - NEC CORP				
	UPB8287C - NEC CORP				
	UPB8287D - NEC CORP				

For and On behalf of BHEL.

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INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	UPD71087C - NEC CORP				
69	CN9066243015 IC MEM NMS EPROM 16K*8 27128 IC MEM AM27128A-1DC AM27128A-1DC - ADVANCE MICRO DEVICES INC AM27C128-120DC - ADVANCE MICRO DEVICES INC AM27C128-150DC - ADVANCE MICRO DEVICES INC D27128A-1 - INTEL CORPORATION TMS27C128-15JL - TEXAS INSTRUMENTS	240	NO	240	30.SEP.2023
70	CN9066249056 IC MEM CMS RAM 8K*8 6264 IC MEM RAM CMOS 8K*8 150NS PDIP-28 HM6264LP-15 MD8464-15LP - FUJITSU COMPUTERS (SINGAPORE) HM-6264LP-15 - HITACHI LTD. TC5565PL-15 - TOSHIBA CORPORATION	220	NO	220	30.SEP.2023
71	CN9066305240 IC DGTL TTL DUAL 2TO4 LINE DECDR 74LS155 IC IF SN74LS155N N74LS155N - SIGNATIC CORPORATION SN74LS155AN - TEXAS INSTRUMENTS SN74LS155N - ON SEMI CONDUCTOR 74LS155PC - ON SEMI CONDUCTOR DM74LS155N - ON SEMI CONDUCTOR	270	NO	270	30.SEP.2023
72	CN9066306599 IC IF TTL OCT BUFFER 74S244 IC IF SN74S244N AM74S244PC - ADVANCE MICRO DEVICES INC N74S244N - SIGNATIC CORPORATION SN74S244N - TEXAS INSTRUMENTS DM74S244N - ON SEMI CONDUCTOR	50	NO	50	30.SEP.2023
73	CN9066314010 IC IF DAC 12 BIT 80 IC IF ADDAC80DCBIV AD/DAC/80D-CBIV - ANALOG DEVICES BV DAC800-CBI-V - TEXAS INSTRUMENTS	43	NO	43	30.SEP.2023
74	CN9066317035 IC LIN ANALOG SWITCH DUAL DG200ABK IC LIN SWITCH DUAL DIP 14C HI1-200-5 HI1-200-5 - INTERSIL INC DG200ACJ+ - MAXIM INTEGRATED PRODS INC DG200BDJ-E3 - VISHAY INTER TECHNOLOGY ASIA PTE. L	20	NO	20	30.SEP.2023
75	CN9066321016 IC IF ADC 12 BIT 0085 IC IF ADC85CQ12-5 ADADC85C-12 - ANALOG DEVICES BV	10	NO	10	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	ADADC85-12 - ANALOG DEVICES BV				
	ADCHX12BMC - C & D TECHNOLOGIES (DATEL) INC.				
	CN9066324015 IC LIN ANALOG MUX DUAL 8CH HI1-0507-5	21	NO	21	30.SEP.2023
76	IC LIN SWITCH SING				
	DIP 28C				
	HI1-0507-5				
	ADG507AKN - ANALOG DEVICES BV				
	IH6216CPI - INTERSIL INC				
	HI1-0507-5 - INTERSIL INC				
	HI1-507A-5 - TEXAS INSTRUMENTS				
	DG507ACJ - VISHAY INTER TECHNOLOGY ASIA PTE. L				
	CN9066328010 IC IF TTL DUAL LINE DRVR 3691	144	NO	144	30.SEP.2023
77	IC IF DS3691M				
	DS3691M/NOPB - TEXAS INSTRUMENTS				
	CN9066329017 IC DGTL TTL DATA SELECTOR 74S251	20	NO	20	30.SEP.2023
78	IC IF SN74S251N				
	SN74S251N - TEXAS INSTRUMENTS				
	DRW PROP_REF:TEX.9-08/29/06 00				
	CN9066330015 IC IF TTL QUAD LINE RECVR 98934	150	NO	150	30.SEP.2023
79	IC-IF-SN98934N				
	C1489A - NATIONAL SEMICONDUCTORS				
	MC1489AL - SGS THOMSON MICROELECTRONICS				
	MC1489AF - SGS THOMSON MICROELECTRONICS				
	MC1489AN - SGS THOMSON MICROELECTRONICS				
	SN75189AJ - TEXAS INSTRUMENTS				
	SN98934N - TEXAS INSTRUMENTS				
	MC1489AL - ON SEMI CONDUCTOR				
	MC1489AP - ON SEMI CONDUCTOR				
	MC1489AL - FREE SCALE SEMI CONDUCTOR				
	MC1489AP - FREE SCALE SEMI CONDUCTOR				
	CN9066411031 IC MEM NMS EPROM 32K*8 27256	211	NO	211	30.SEP.2023
80	IC MEM ID27C256-2				
	CMS				
	AM27C256-120DC - ADVANCE MICRO DEVICES INC				
	HN27C256G-25 - HITACHI LTD.				
	27C256-25 - INTEL CORPORATION				
	M27C256-25F1 - SGS THOMSON MICROELECTRONICS				
	M27C256B-12F1 - SGS THOMSON MICROELECTRONICS				
	TMS27C256-12JL - TEXAS INSTRUMENTS				
	TMS27C256-25JL - TEXAS INSTRUMENTS				
	FM27C256Q150 - ON SEMI CONDUCTOR				

For and On behalf of BHEL.

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
81	CN9066419024 IC MEM TTL PROM 2K*8 76161 IC MEM HM3-76161-5 AM27S191DC - ADVANCE MICRO DEVICES INC HM3-76161-5 - INTERSIL INC	90	NO	90	30.SEP.2023
82	CN9066438100 IC MEM MOS NVRAM 256*4 2212 IC MEM NVRAM 256*4 CERDIP-18 X2212D X2212D - XICOR INC X22C12D - XICOR INC X22C12P - XICOR INC DRW PROP_REF:XCR.2-12/30/05 00	300	NO	300	30.SEP.2023
83	DV0688160019 FEET FIXING KIT - LEM SENSOR Feet Fixing kit for LEM sensor vertical mounting 93.34.63.100.0 - LEM International SA	1,515	NO	1,515	30.SEP.2023
84	DV0688160027 CURRENT TRANSDUCER 1000A/250mA Current Sensor 1000A Primary Current Nominal: 1000A rms Secondary Current: 250mA rms Supply Voltage +/- 15V to +/- 24V BHEL specification: PS4062392 REV 00	1,405	NO	1,405	30.SEP.2023
	LTC 1000 - S/SP1 - LEM International SA HED1K0T02-CB11 - ELECTROHMS PRIVATE LIMITED				
85	DV0688170935 TRANSDUCER SHUNT 250V/50MA 12/24VDC VOLTAGE TRANSDUCER 250V/50mA (nominal), +,- 12/24VDC SUPPLY VOLTAGE. AV100-250 - LEM International SA DVL 250 - LEM International SA	136	NO	136	30.SEP.2023
86	DV0688170943 TRANSDUCER SHUNT 750V/50MA 12/24VDC VOLTAGE TRANSDUCER 750V/50mA (nominal), +,- 12/24VDC SUPPLY VOLTAGE. AV100-750 - LEM International SA DVL 750 - LEM International SA	736	NO	736	30.SEP.2023
87	DV0688170960 TRANSDUCER SHUNT 2800V/50MA VOLTAGE TRANSDUCER 2800V/50mA (nominal). DV 2800/SP4 - LEM International SA	538	NO	538	30.SEP.2023
88	DV0688170994 TRANSDUCER SHUNT 300A/150MA CURRENT TRANSDUCER 300A/150mA (nominal),	756	NO	756	30.SEP.2023

For and On behalf of BHEL.

Page 15 OF 69



MMI:PU:RF:003

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	+/-15VDC SUPPLY VOLTAGE.				
	LAC 300-S/SP1 - LEM International SA				
89	DV0688171001 TRANSDUCER SHUNT 400A/80MA CURRENT TRANSDUCER 400A/80mA (nominal), +/-15VDC SUPPLY VOLTAGE. LAC 300-S/SP3 - LEM International SA	1,056	NO	1,056	30.SEP.2023
		E 140	NO	E 140	00.055.0000
90	DV0688172741 Current Transducer 1:4000 LEM Current Transducer 1000A:250mA LTC 1000-S/SP1 - LEM International SA	5,142	NO	5,142	30.SEP.2023
91	DV0692030093 IC DGTL HCMOS DECADE CNTR 74HC390 SMD IC DIGTL HCMOS SO-16 DUAL DECADE RIPPLE COUNTER	1,000	NO	1,000	30.SEP.2023
	DATE CODE CLAUSE: DATE CODE OF THE ITEMS SUPPLIED SHALL BE LESS THAN OR EQUAL TO 30 MONTHS FROM THE PO DATE. PRIOR APPROVAL TO BE TAKEN BY VENDOR IN CASE OF ANY DEVIATION FROM THIS CLAUSE. 74HC390D - PHILIPS SEMICONDUCTORS / NXP CD74HC390M - TEXAS INSTRUMENTS MC74HC390ADG - ON SEMI CONDUCTOR M74HC390RM13 - SGS THOMSON MICROELECTRONICS Test Certificate				
92	DV0692030425 IC LIN MULTIPLIER 1 % AD534SH IC LIN MULTIPLIER 1 %, TO-100 AD534SH AD534SH - ANALOG DEVICES BV AD534JHZ - ANALOG DEVICES BV	47	NO	47	30.SEP.2023
93	DV0692030441 OPTOCOUPLER VO610A OPTOCOUPLER VO610A SMD-4 VO610A-1X019T - VISHAY INTER TECHNOLOGY ASIA PTE. L	1,000	NO	1,000	30.SEP.2023
94	DV0692030485 IC ANALOG SW QUAD SPST SMD SOIC-16 SWITCH SO-16 ADG201HSKR DATE CODE CLAUSE: DATE CODE OF THE ITEMS SUPPLIED SHALL BE LESS THAN OR EQUAL TO 24 MONTHS FROM THE INVOICE DATE. PRIOR APPROVAL TO BE TAKEN BY VENDOR IN CASE OF ANY DEVIATION FROM THIS CLAUSE. HI6-0201HS-5 - MAXIM INTEGRATED PRODS INC		NO	500	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,,
BANGALORE - 560026
Karnataka India

(for all correspondence)
Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DG201HSDY-E3 - VISHAY INTER TECHNOLOGY ASIA PTE. L				
95	DV0692030493 IC CMOS TRIPLE 3 I/P OR GATE SOIC14 SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. TO BE SUPPLIED IN OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. CD4075BM - TEXAS INSTRUMENTS		NO	100	30.SEP.2023
96	DV0692030592 IC ANALOG MUX SOIC-28 ROHS DEVICE WITH BACKWARD COMPATIBILITY OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 30 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. ADG506AKRZ - ANALOG DEVICES BV		NO	244	30.SEP.2023
97	DV0692031049 DIP Switches SPST slide TH SPST Through Hole 1 position slide actuator type switch 5161390-1 - TYCO ELECTRONICS MIDDLE EAST FZE	1,526	NO	1,526	30.SEP.2023
98	DV0692221743 IC-HCMS QUAD 2 I/P NOR GATE 74HC02 SMD IC-HCMOS*74HC02 *S MC74HC02ADR2 DRG:HETN400790P0072 MC74HC02ADR2 - ON SEMI CONDUCTOR SN74HC02D - TEXAS INSTRUMENTS MM74HC02MX - ON SEMI CONDUCTOR	351	NO	351	30.SEP.2023
99	DV0692221816 IC-HCMS OCT TS BUFER 74HC244 SMD IC-HCMOS*74HC244*S MC74HC244ADWR2 DRG:HETN400790P0392 PACKING DETAILS: TAPE & REEL SN74HC244DW - TEXAS INSTRUMENTS MC74HC244ADWR2 - ON SEMI CONDUCTOR 74HC244D - PHILIPS SEMICONDUCTORS / NXP	400	NO	400	30.SEP.2023
100	DV0692222170 IC AMPLIFIER SMD OP177G LT1097S8(T+R) IC-AMPLIFIER*OP177G*S LT1097S8(T+R) DRG:HETN400911P0005	4,575	NO	4,575	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	PACKING DETAILS: TAPE & REEL OP177GSZ - ANALOG DEVICES BV OPA177GS - TEXAS INSTRUMENTS LT1097S8(T+R) - LINEAR TECHNOLOGY CORPORATION	,			
101	DV0692222251 IC-HCMS HEX SCMT TRGR 74HCT14 SMD IC-HCMOS*74HCT14*S 74HCT14T DRG:HETN400791P0352 PACKING DETAILS: TAPE & REEL 74HCT14D - PHILIPS SEMICONDUCTORS / NXP	600	NO	600	30.SEP.2023
102	DRW PROP_REF:PHL.22-12/01/05 00 DV0692222278 IC-HCMS QUAD TS NONINV BFR 74HC126 SMD IC-HCMOS*74HC126 *S MC74HC126ADR2 DRG:HETN400790P0672 MC74HC126ADR2 - ON SEMI CONDUCTOR MM74HC126M - NATIONAL SEMICONDUCTORS SN74HC126D - TEXAS INSTRUMENTS 74HC126M - ON SEMI CONDUCTORS / NXP MM74HC126M - ON SEMI CONDUCTOR	300	NO	300	30.SEP.2023
103	DV0692222332 IC-PROC:16MHZ TN80C196KC SMD IC-PROC:16MHZ *S TN80C196KC DRG:HETN400868P0006 TN80C196KC - INTEL CORPORATION DRW PROP_REF:INT.19-01/23/06 00	310	NO	310	30.SEP.2023
104	DV0692222340 IC-HCMS QUAD 2 I/P NANDGATE 74HCT00 SMD IC-HCMOS*74HCT00 *S 74HCT00T DRG:HETN400791P0192 74HCT00D - PHILIPS SEMICONDUCTORS / NXP	200	NO	200	30.SEP.2023
105	DV0692222510 IC-QUAD LOW OFF OPAMP OP400HS SMD IC LINEAR QUAD OP-AMP OP400HSZ DRG:HETT402517P0007 PACKING DETAILS: TUBE WITH 47 ICS	517	NO	517	30.SEP.2023

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	OP400HSZ - ANALOG DEVICES BV				
106	DV0692229027 IC TRANS 74HCT245D SMD IC TRANS SMD 74HCT245D HETN400791P0072 74HCT245D - PHILIPS SEMICONDUCTORS / NXP	300	NO	300	30.SEP.2023
107	DV0692302735 IC 8 3-STAT NON INV BUFER/DRIVER SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MA PART NO: 082300 MC74HC244ADWR2G - ON SEMI CONDUCTOR	7,500	NO	7,500	30.SEP.2023
108	DV0692302816 IC MC 32-BIT W/RAM TQFP-144 SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. AS PER PS406450 DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MA PART NO: 082297 MC68332ACAG16 - PHILIPS SEMICONDUCTORS / NXP	1,500	NO	1,500	30.SEP.2023
109	DV0692303057 IC MEM FLASH 2 MBIT TSOP-48 SMD VALMET REF: 082460 OEM HUMIDITY SEALED TRAY PACKING ONLY. ACCEPTABLE DATE CODE IS 2010+ PRIOR APPROVAL TO BE TAKEN BY VENDOR IN CASE OF ANY DEVIATION FROM THIS CLAUSE.	2,532	NO	2,532	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DATE CODE CLAUSE : DATE CODE OF THE				
	ITEMS SUPPLIED SHALL BE LESS THAN OR				
	EQUAL TO 30 MONTHS FROM THE PO DATE.				
	PRIOR APPROVAL TO BE TAKEN BY VENDOR IN				
	CASE OF ANY DEVIATION FROM THIS CLAUSE.				
	AM29F200BB-70ED - SPANSION HOLDINGS(SINGAPORE) PTE LT				
	AM29F200BB-70EF - SPANSION HOLDINGS(SINGAPORE) PTE LT				
	M29F200FB55N3E2(NUMONYX) - MICRON SEMICONDR ASIA PACIFIC PVT L				
	M29F200FB55N6E2(NUMONYX) - MICRON SEMICONDR ASIA				
	PACIFIC PVT L				
	DV0692303677 OPTOCOUPLER 4N35 DIP-6		NO	48,333	30.SEP.2023
110	ROHS DEVICE WITH BACKWARD COMPATIBILITY.	48,333	110	40,000	30.0L1 .2023
110	OEM PACKING ONLY.	.0,000			
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	NA PARTINO 2020 CE				
	MA PART NO: 093065				
	4N35M - ON SEMI CONDUCTOR 4N36M - ON SEMI CONDUCTOR				
		2.500	NO	2.500	00.050.000
111	DV0692305742 IC 3TO8 DECODER 74AC138 SOIC16 SMD CD74AC138M	2,500	NO	2,500	30.SEP.2023
111	CD/4AC130W				
	ROHS DEVICE WITH BACKWARD COMPATIBILITY				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE				
	MA DARENO 202150				
	MA PART NO: 293158				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CD74AC138M96 - TEXAS INSTRUMENTS				
	MC74AC138DR2G - ON SEMI CONDUCTOR				
	74AC138SCX - ON SEMI CONDUCTOR				
	DV0692305750 IC HEX INV SCHMT TGR 74HC14 SOIC14 SMD		NO	62,500	30.SEP.2023
112	CD74HC14M	62,500			
	ROHS DEVICE WITH BACKWARD COMPATIBILITY				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE				
	IN CASE OF ANY DEVIATION PROMITTIE ABOVE				
	MA PART NO: 293166				
	CD74HC14M96 - TEXAS INSTRUMENTS				
	SN74HC14DR - TEXAS INSTRUMENTS				
	MC74HC14ADR2G - ON SEMI CONDUCTOR				
	MM74HC14MX - ON SEMI CONDUCTOR				
	MM74HC14MX - ON SEMI CONDUCTOR				
	DV0692306250 IC HI SPEED OPTO- COUPLER SOIC-8 SMD	5,500	NO	5,500	30.SEP.2023
113	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	IN CASE OF ANT DEVIATION FROM THE ABOVE.				
	MA PART NO: 047403				
	HCPL-0501-500E - BROADCOM LIMITED				
	DV0692309544 IC SMD DUAL OPTO HCPL-0531 1MBD SOIC-8	3,375	NO	3,375	30.SEP.2023
114	ROHS DEVICE WITH BACKWARD COMPATIBILITY.	0,070	110	0,070	00.021 .2020
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	MA DARTNO, 050204				
	MA PART NO: 050384				
	HCPL-0531-500E - BROADCOM LIMITED	630	NO.	600	20.055.2022
	DV0692320040 IC HEX INV 74HCT14 SOIC14 SMD	633	NO	633	30.SEP.2023

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

RFO DATE:

04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

MMI:PU:RF:003

To: BHEL, Electronics Division (X563699)

MYSORE ROAD,,
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Karnataka India

(for all correspondence)

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DATE CODE TO BE LESS THAN 36 MONTHS				
115	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF				
	DEVIATION FROM THE ABOVE.				
	CD74HCT14M - TEXAS INSTRUMENTS				
	MC74HCT14ADG - ON SEMI CONDUCTOR				
	CD74HCT14ME4 - TEXAS INSTRUMENTS				
	MM74HCT14M - ON SEMI CONDUCTOR				
	74HCT14D - NEXPERIA				
	DV0692320067 IC OCT BUS TRANSCVR 74FCT245 SOIC20 SMD	444	NO	444	30.SEP.2023
116	DATE CODE TO BE LESS THAN 36 MONTHS				
	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF DEVIATION FROM THE ABOVE.				
	DEVIATION FROM THE ABOVE.				
	IDT74FCT245ATSOG - RENESAS TECHNOLOGY SINGAPORE				
	PTE. L				
	IDT74FCT245ATSOG8 - RENESAS TECHNOLOGY SINGAPORE				
	PTE. L				
	DV0692320075 IC OCT D-LATCH 74FCT373 SOIC20 SMD	296	NO	296	30.SEP.2023
117	DATE CODE TO BE LESS THAN 36 MONTHS		1.0		00.022020
	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF				
	DEVIATION FROM THE ABOVE.				
	IDT74FCT373ATSOG - RENESAS TECHNOLOGY SINGAPORE				
	PTE. L				
	IDT74FCT373ATSOG8 - RENESAS TECHNOLOGY SINGAPORE				
	PTE. L				
	DV0692320156 IC MP PPI 82C55A PLCC44 SMD	338	NO	338	30.SEP.2023
118	DATE CODE TO BE LESS THAN 36 MONTHS				
	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF				
	DEVIATION FROM THE ABOVE.				
	CS82C55A - RENESAS TECHNOLOGY SINGAPORE PTE. L				
	CS82C55AZ - RENESAS TECHNOLOGY SINGAPORE PTE. L				
	DV0692320180 IC MP PROGRAMABLE TIMER 82C54 PLCC28 SMD	74	NO	74	30.SEP.2023
110	DATE CODE TO BE LESS THAN 36 MONTHS	,4	INO	'4	30.3Li2023
119	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF				
	DEVIATION FROM THE ABOVE.				
	- · · · · · · · · · · · · · · · · · · ·				

For and On behalf of BHEL.

Page 22 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CS82C54-10 - RENESAS TECHNOLOGY SINGAPORE PTE. L CS82C54-10Z - RENESAS TECHNOLOGY SINGAPORE PTE. L				
120	DV0692320210 IC LIN 4-20mA Input RCV420KP OEM PACKING ONLY DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE RCV420KP - TEXAS INSTRUMENTS	250	NO	250	30.SEP.2023
121	DV0692320881 OPTO COUPLER 6N137.S SMD DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF DEVIATION FROM THE ABOVE. 6N137-300E - BROADCOM LIMITED 6N137-500E - BROADCOM LIMITED 6N137-500E - BROADCOM LIMITED	140	NO	140	30.SEP.2023
122	DV0692320903 IC LIN VOLT REG NEG FIX 15V MC79M15CDT OEM PACKING ONLY DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE MC79M15CDTG - ON SEMI CONDUCTOR	21	NO	21	30.SEP.2023
123	DV0692330086 IC FLASH 2MB 3.3V AM29LV200BT SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING IS PREFERRED. IN CASE OEM PACKING SUPPLY IS NOT POSSIBLE, ITEM TO BE SUPPLIED IN UNEXPIRED HUMIDITY SEALED TRAY, AS PER JEDEC GUIDELINES,FOR APPLICABLE MOISTURE SENSITIVITY LEVEL (MSL) DEFINED BY OEM. DATE CODE TO BE 2005+ FROM INVOICE DATE. PARTS ARE TO BE ORIGINAL, UNUSED AND FREE OF ANY PHYSICAL DAMAGE. REFURBISHED ICS WILL NOT BE ACCEPTABLE.	11	NO	11	30.SEP.2023
	BHEL'S WRITTEN APPROVAL IS				

For and On behalf of BHEL.

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MMI:PU:RF:003

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	REQUIRED IN CASE OF ANY DEVIATION				
	FROM THE ABOVE. MA PART NO: 082241				
	AM29LV200BT-70ED - SPANSION HOLDINGS(SINGAPORE) PTE				
	LT				
	DV0692330110 IC FPGA FLEX-6K16 2NS-3NS PQFP-208 SMD	1,080	NO	1,080	30.SEP.2023
124	OEM PACKING IS PREFERRED. IN CASE OEM				
	PACKING SUPPLY IS NOT POSSIBLE, ITEM				
	TO BE SUPPLIED IN HUMIDITY				
	SEALED TRAY PACKING AS PER JEDEC GUIDELINES FOR MSL 3 ITEMS.				
	ORIGINAL ITEM TO BE SUPPLIED.				
	ACCEPTABLE DATE CODE IS 2013+.				
	MA PART NO: 082266				
	WITTING 100. 002200				
	EPF6016QC208-2N - INTEL CORPORATION				
	EPF6016QC208-3N - INTEL CORPORATION				
	EPF6016QC208-2N - ALTERA CORPORATION				
	EPF6016QC208-3N - ALTERA CORPORATION				
	DRW PS406394 00				
	DV0692330137 IC OPTOCOUPLER SMD SOIC-8 PIN 10MBD SMD		NO	10,500	30.SEP.2023
125	ROHS DEVICE WITH BACKWARD COMPATIBILITY.	10,500			
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	MA PART NO: 082264				
	MA PART NO: 082204				
	HCPL-0600-500E - BROADCOM LIMITED				
	DV0692330145 IC QUAD COMPARATOR SOIC-14 LM339DR2G	2,500	NO	2,500	30.SEP.2023
126	SMD	2,000	110		00.021 .2020
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	MA PART NO: 082207				
	LM339DR2G - ON SEMI CONDUCTOR				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,, BANGALORE - 560026

Karnataka India

(for all correspondence)
Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	LM339MXNOPB - TEXAS INSTRUMENTS				
127	DV0692330153 IC DUAL USB HI-SIDE PWR SW LM3526M SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MA PART NO: 082229 LM3526MX-H NOPB - TEXAS INSTRUMENTS MIC2506YM-TR - MICROCHIP TECHNOLOGY LTD	2,500	NO	2,500	30.SEP.2023
128	DV0692332090 IC monstable MV 74LS123 IC monstable MV 74LS123 SOIC package SN74LS123D - TEXAS INSTRUMENTS SN74LS123D - ON SEMI CONDUCTOR	50	NO	50	30.SEP.2023
	DM74LS123M - ON SEMI CONDUCTOR				
129	DV0692332138 IC Powermonitor 1231S IC Powermonitor 1231S SOIC package	50	NO	50	30.SEP.2023
	DS1231S-20+ - MAXIM INTEGRATED PRODS INC DS1231S-20N+ - MAXIM INTEGRATED PRODS INC				
130	DV0692332146 Quad peripheral drvr CA3262M Quad peripheral driver CA3262M SOIC package	219	NO	219	30.SEP.2023
	CA3262AM - INTERSIL INC				
131	DV0692332391 AC/DC CONVERTOR 50W 230V AC/48V DC 1.1A AC to DC convertor 1A 48V DC	25	NO	25	30.SEP.2023
	PBA50F-48-N - COSEL CO LTD LCW50US48 - XP POWER LIMITED				
132	DV0692332430 IC Octal Buffer 74LS240 SMD IC Octal Buffer 74LS240 SMD SOIC Package	50	NO	50	30.SEP.2023
	SN74LS240DW - MOTOROLA SEMICONDUCTORS INC SN74LS240DW - ON SEMI CONDUCTOR				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

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To:

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	SN74LS240DW - TEXAS INSTRUMENTS DM74LS240WM - ON SEMI CONDUCTOR				
133	DV0692332596 IC SRAM 64Kx16 71016S12PHG TSOP II 44 S ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. 71016S12PHG - RENESAS TECHNOLOGY SINGAPORE PTE. L Test Certificate	1,628	NO	1,628	30.SEP.2023
	DV0692332723 IC CPLD MAXII EPM570T100C5N TQFP-100 S MA PART NO: 082601 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TRAY PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. EPM570T100C5N(TRAY) - INTEL CORPORATION Test Certificate	540	NO	540	30.SEP.2023
135	DV0692332758 IC LINEAR REG. LTC3611 SMD QFN-64 MaxDNA PART REF: LD082571,A ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE LTC3611EWP#TRPBF - ANALOG DEVICES BV LTC3611EWP#PBF - ANALOG DEVICES BV	540	NO	540	30.SEP.2023
136	DV0692333029 IC FPGA ARRIA EP2AGX45DF25 572 FBGA SMD MA PART NO: 082610 ROHS DEVICE WITH BACKWARD COMPATIBILITY. HUMIDITY SEALED TRAY PACKING FROM OEM ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN	671	NO	671	30.SEP.2023

For and On behalf of BHEL.

Page 26 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	EP2AGX45DF25I5G - INTEL CORPORATION				
	EP2AGX45DF25C5G - INTEL CORPORATION				
	Test Certificate				
137	DV0692333293 IC LDO ADJ LT3063EMS8E MSOP-8 SMD VALMET REF: 094293 DATE CODE TO BE LESS THAN 36 MONTHS OF THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION AS ABOVE. LT3063EMS8E#TRPBF - ANALOG DEVICES BV LT3063EMS8E#PBF - ANALOG DEVICES BV	452	NO	452	30.SEP.2023
138	DV0692333377 IC NAND GATE SN74LVC1G38DBV SOT23-5 SMD OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. BHEL'S RFQ MAY NOT BE WITH MULTIPLES OF SPQ, SINCE LISTED ACCEPTABLE PART NOS. HAVE VARYING STANDARD PACKING QUANTITIES(SPQS). VENDORS TO QUOTE APPROPRIATE NEAREST OEM SPQ CORRESPONDING TO THE QUOTED PART NO, TO MEET OEM PACKING SPECIFICATION. VALMET PART NO: 094129 SN74LVC1G38DBVR - TEXAS INSTRUMENTS "74LVC1G38GV,125" - NEXPERIA	3,000	NO	3,000	30.SEP.2023
139	DV0692333393 IC INV SN74LVC1G06DBV SOT23-5 SMD OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. BHEL'S RFQ MAY NOT BE WITH MULTIPLES OF SPQ, SINCE LISTED ACCEPTABLE PART NOS. HAVE VARYING STANDARD PACKING QUANTITIES(SPQS). VENDORS TO QUOTE APPROPRIATE NEAREST OEM SPQ CORRESPONDING TO THE QUOTED PART NO,	3,000	NO	3,000	30.SEP.2023

For and On behalf of BHEL.

Page 27 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	TO MEET OEM PACKING SPECIFICATION.			7 17	j
	VALMET PART NO: 094288				
	SN74LVC1G06DBVR - TEXAS INSTRUMENTS				
	74LVC1G06GV.125 - NEXPERIA	500		500	
140	DV0692333419 RELAY SSR SPST SGL 0.6A SOP-4 SMD	563	NO	563	30.SEP.2023
140	OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM THE ABOVE.				
	VALMET PART NO: 094290				
	ASSR-1410-003E - BROADCOM LIMITED				
	DV0692333427 IC PWR MONITOR LTC1728 SOT23-5 SMD	600	NO	600	30.SEP.2023
141	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM THE ABOVE. VALMET PART NO: 094294				
	VALMET PART NO: 094294				
	LTC1728ES5-2.5#TRPBF - ANALOG DEVICES BV				
	LTC1728ES5-2.5#TRMPBF - ANALOG DEVICES BV				
	DV0692333435 IC PWR MONITOR LTC2960 SOT23-8 SMD	1,100	NO	1,100	30.SEP.2023
142	OEM TAPE AND REEL PACKING ONLY.	,,,,,,		.,	
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE. BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM THE ABOVE.				
	VALMET PART NO: 094295				
	LTC2960CTS8-1#TRMPBF - ANALOG DEVICES BV				
	LTC2960CTS8-1#TRPBF - ANALOG DEVICES BV	F	NO.	-	20.055.222
1.42	DV0692334246 IC FPGA CYCLONE IV 328IO SMD 484-BGA ITEM TO BE SUPPLIED IN HUMIDITY SEALED	5	NO	5	30.SEP.2023
143	PACKING AS PER APPLICABLE JEDEC GUIDELINES				
	FOR				
	MSL 3 PACKING. DATE CODE TO BE WITHIN 5				
	YEARS FROM INVOICE DATE.				
	VALMET PART NO: 094321				
	EP4CE40F23C8N - INTEL CORPORATION				

For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	EP4CE40F23C8N - ALTERA CORPORATION				
144	DV0692340076 IC DIGITAL ISOLATOR ADuM1201BR SOIC8 S IC DIGITAL ISOLATOR ADuM1201BR SOIC8 S	719	NO	719	30.SEP.2023
	MA PART NO:#60101201,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 12 MONTHS FROM				
	THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	ADUM1201BRZ - ANALOG DEVICES BV				
145	DV0692340114 IC DIGITAL ISOLATOR ADuM1400ARWZ SOW16 S IC DIGITAL ISOLATOR ADuM1400ARWZ SOW16 S	2,000	NO	2,000	30.SEP.2023
	MA PART NO:#60101402,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	ADUM3400ARWZ-RL - ANALOG DEVICES BV ADUM1400ARWZ-RL - ANALOG DEVICES BV				
146	DV0692340467 IC SINGLE INV SN74AHC1G04DBV SOT23-5 MA PART NO: 607001011,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY		NO	9,000	30.SEP.2023
	DEVIATION FROM THE ABOVE.				
	SN74AHC1G04DBVR - TEXAS INSTRUMENTS DV0692340556 IC 2 I/P AND GATE SN74HC08D SOIC14 S		NO	27,500	30.SEP.2023
147	MA PART NO: 60700806,0	27,500	140	21,500	00.0L1 .2020
	ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				

For and On behalf of BHEL.

Page 29 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SN74HC08DR - TEXAS INSTRUMENTS				
	MM74HC08MX - ON SEMI CONDUCTOR				
	DV0692340572 IC 3-8 DECODER SN74HC138D SOIC16 S	200	NO	200	30.SEP.2023
	MA PART NO: 60713806,0				
1.0	1.2.1.2.1.2.1.0.1.00,12000,0				
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM PACKING ONLY.				
	DATE CODE TO BE LESS THAN 12 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SN74HC138D - TEXAS INSTRUMENTS				
	MM74HC138M - ON SEMI CONDUCTOR				
	DV0692340599 IC SHIFT REG SN74HC165PW TSSOP16 S	7,500	NO	7,500	30.SEP.2023
149	MA PART NO: 60716507,0	ŕ		,	
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SN74HC165PWR - TEXAS INSTRUMENTS				
	74HC165PW,118 - PHILIPS SEMICONDUCTORS / NXP				
	"74HC165PW,118" - NEXPERIA				
	DV0692340602 IC DARLINGTON DRVR ULN2803ADW SOW18 S		NO	14,000	30.SEP.2023
150	MA PART NO: 60180301,0	14,000			
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	ULN2803ADWR - TEXAS INSTRUMENTS				
	ULN2803AFWG(C,ELHA) - TOSHIBA CORPORATION				
	TBD62083AFWG (TAPE & REEL) - TOSHIBA CORPORATION				
	DV0692342028 IC DIFF TRNSCVR SN65LBC176D SOIC8 S		NO	91,250	30.SEP.2023
151	MA PART NO: 60217612,0	91,250			
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				

For and On behalf of BHEL.

Page 30 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. SN65LBC176DR - TEXAS INSTRUMENTS LTC485IS8#TRPBF - ANALOG DEVICES BV MAX485ESA+T - ANALOG DEVICES BV MAX485ESA+T - ANALOG DEVICES BV				
152	DV0692342044 IC SINGLE NAND SN74LVC1G00DBV SOT23-5 S MA PART NO:60900100,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. SN74LVC1G00DBVR - TEXAS INSTRUMENTS	52,500	NO	52,500	30.SEP.2023
153	DV0692342060 IC SINGLE AND SN74LVC1G08DBV SOT23-5 S MA PART NO: 60900800,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. SN74LVC1G08DBVR - TEXAS INSTRUMENTS	18,000	NO	18,000	30.SEP.2023
154	DV0692342141 IC IF RS232 TRANSC MAX3222EUP TSSOP20 S MA PART NO: 60100831,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. ADM3222ARUZ-REEL - ANALOG DEVICES BV ST3222BTR - SGS THOMSON MICROELECTRONICS MAX3222EUP+T - ANALOG DEVICES BV	5,000	NO	5,000	30.SEP.2023
155	DV0692342249 IC SER EEPROM 1K AT93C46DN SOIC 8 S MA PART NO: 60424621,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 12 MONTHS FROM INVOICE DATE.	12,000	NO	12,000	30.SEP.2023

For and On behalf of BHEL.

Page 31 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				-
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	CAT93C46VBI-GT3 - ON SEMI CONDUCTOR				
	AT93C46DN-SH-T - MICROCHIP TECHNOLOGY LTD				
	BR93G46FJ-3GTE2 - ROHM ELECTRONICS ASIA PTE LTD.				
	DV0692342397 IC CPU 40MHz AT89C51RB2-RLTUM VQFP44 S		NO	30,080	30.SEP.2023
156	MA PART NO: 60475220,0	30,080	110	00,000	00.021 .2020
130	ROHS DEVICE WITH BACKWARD COMPATIBILITY.	30,000			
	OEM TRAY PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	AT89C51RB2-RLTUM - MICROCHIP TECHNOLOGY LTD				
	AT89C51RB2T-RLTUM - MICROCHIP TECHNOLOGY LTD				
	DV0692342400 IC SDRAM MT48LC8M16A2P 133MHZ TSOP54 S	5,184	NO	5,184	30.SEP.2023
157	MA PART NO: 60401681,0	, ,		_, _	
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TRAY PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	IS42S16800F-7TLI (TRAY) - INTEGRATED SILICON SOLUTION				
	INC.				
	DV0692343105 IC ANALOG OPAMP SMD LM258D	7,500	NO	7,500	30.SEP.2023
158	MA PART NO: 60129711,0 ROHS DEVICE WITH				
	BACKWARD COMPATIBILITY.OEM TAPE AND REEL				
	PACKING ONLY. DATE CODE TO BE LESS THAN				
	36 MONTHS FROM INVOICE DATE. BHEL'S				
	WRITTEN APPROVAL IS REQUIRED IN CASE OF				
	ANY DEVIATION FROM THE ABOVE.				
	LM258DT - SGS THOMSON MICROELECTRONICS				
	LM258DRE4 - TEXAS INSTRUMENTS				
	LM258DR2G - ON SEMI CONDUCTOR				
	LM258DRG4 - TEXAS INSTRUMENTS				
	LM258DR - TEXAS INSTRUMENTS				
	DV0692343121 IC ANALOG SMD ADJ REG. LM317LD		NO	41,250	30.SEP.2023
159	MA PART NO: 60131712,0	41,250			
	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TAPE AND REEL PACKING ONLY. DATE				
	CODE TO BE LESS THAN 36 MONTHS FROM				
	INVOICE DATE. BHEL'S WRITTEN APPROVAL				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
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	IS REQUIRED IN CASE OF ANY DEVIATION				
	FROM THE ABOVE.				
	LM317LDR2G - ON SEMI CONDUCTOR				
	LM317LD13TR - SGS THOMSON MICROELECTRONICS				
	DV0692347127 IC ANALOG SMD LIN REG DPAK LM317MDT MA PART NO: 60131715,0	75	NO	75	30.SEP.2023
	OEM PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. LM317MDT/NOPB - NATIONAL SEMICONDUCTORS LM317MDT-TR - SGS THOMSON MICROELECTRONICS LM317MDTRKG - ON SEMI CONDUCTOR				
	DV0692347194 IC ANALOG SMD LIN REG 78L05 MA PART NO: 60180537,0	56,250	NO	56,250	30.SEP.2023
	OEM TAPE & REEL PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MC78L05ACDR2G - ON SEMI CONDUCTOR LM78L05ACMX - TEXAS INSTRUMENTS				
	DV0692348921 OPTOCOUPLER SMD SFH6186-3T POWERNET REF: 49200000	9,000	NO	9,000	30.SEP.2023
	ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	SFH6186-3T - VISHAY INTER TECHNOLOGY ASIA PTE. L PS2501L-1-A - RENESAS TECHNOLOGY SINGAPORE PTE. L				
	DV0692349537 IC SCHMT TRG SN74LVC2G17DBV SOT23-6 S MA PART NO: 60901702,0 AND 082566 ROHS DEVICE WITH BACKWARD COMPATIBILITY. TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM THE INVOICE DATE.	6,000	NO	6,000	30.SEP.2023

For and On behalf of BHEL.

Page 33 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,,
BANGALORE - 560026
Karnataka India

(for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SN74LVC2G17DBVR - TEXAS INSTRUMENTS				
	SN74LVC2G17DBVT - TEXAS INSTRUMENTS				
	74LVC2G17GV.125 - NEXPERIA				
	DV0692349553 IC SHIFT REG SN74LV165APW TSSOP-16 S	4,000	NO	4,000	30.SEP.2023
164	MA PART NO: 60914165,0	4,000	NO	4,000	30.3LF.2023
104	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM THE INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	SN74LV165APWR - TEXAS INSTRUMENTS				
	74LV165APW(TAPE&REEL) - PHILIPS SEMICONDUCTORS / NXP				
	74LV165APW(TAPE&REEL) - NEXPERIA				
	DV0692349880 IC CPU SUPERVISOR MAX6751KA29 SOT23-8 S	500	NO	500	30.SEP.2023
165	MA PART NO: 60066751,0	300	NO	300	30.SEP.2023
103	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM INVOICE DATE.				
	OEM/ AUTHORISED DISTRIBUTOR /DEALER COC.				
	IN CASE OF DEALER COC VENDOR TO PROVIDE A				
	CERTIFICATE ON VENDOR#S LETTER HEAD				
	CERTIFYING PROCUREMENT# #FROM				
	OEM/AUTHORISED				
	DISTRIBUTOR.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	CASE OF AINT DEVIATION PROMITTIE ABOVE.				
	MAX6751KA29+T - ANALOG DEVICES BV				
	DV0692349928 IC ISPPAC-POWR1014A-01TN48I TQFP48 S	1 125	N/O	1 125	20 SED 2022
100	MA PART NO: 60401014.0	1,125	NO	1,125	30.SEP.2023
100	ROHS DEVICE WITH BACKWARD COMPATIBILITY.				
	OEM TRAY PACKING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS				
	FROM HE INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM THE ABOVE.				
	CASE OF ANT DEVIATION FROM THE ABOVE.				
	ISPPAC-POWR1014A-01TN48I(TRAY) - LATTICE				
	` '				
L	SEMICONDUCTOR CORPORATION				

For and On behalf of BHEL.

Page 34 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DV0692351019 IC FF D-TYPE 74LVC1G74DC VSSOP8 S MA PART NO: 60907400,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. 74LVC1G74DC (TAPE&REEL) - PHILIPS SEMICONDUCTORS / NXP SN74LVC1G74DCUR - TEXAS INSTRUMENTS 74LVC1G74DC (TAPE&REEL) - NEXPERIA	3,000	NO	3,000	30.SEP.2023
168	DV0692351139 MODULE QSEVEN AB1-3J84 M106 QSeven without coating VALMET ORDER NO: AB1-3J84. PQ7-M106IL-EN-E3845-2G-MET, Rev 400. (OR) PQ7-M106IL-EN-E3845-2G-MET, Rev 401. (OR) PQ7-M106IL-EN-E3845-2G-MET, Rev 501 VALMET,FNLAND PART NO: S447855. VALMET,USA PART NO: 049368. QSEVEN MODULES ARE TO BE SUPPLIED WITH CUSTOMISED BIOS and EC AS PER VALMET - FINLAND/USA. ITEM TO BE SUPPLIED IN OEM PACKING. DATE CODE OF THE ITEM TO BE WITHIN 2 YEARS FROM INVOICE DATE. OEM COC AND WARRANTY CERTIFICATE FOR 1 YEAR FROM INVOICE DATE TO BE PROVIDED. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.	596	NO	596	30.SEP.2023
169	DV0692352112 EPROM EPC1 20PIN PLCC SERIAL EPROM EPC1 20PIN PLCC ALTERA EPC1LC20 - ALTERA CORPORATION EPC1LC20N - ALTERA CORPORATION	194	NO	194	30.SEP.2023

For and On behalf of BHEL.

Page 35 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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none: 00020707133

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E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
170	DV0692352370 IC ANALOG REG. LM431BIM3 SMD SOT-23 ROHS WITH BACKWARD COMPATIBILITY. OEM TAPE & REEL PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. LM431BIM3/NOPB - NATIONAL SEMICONDUCTORS LM431BIM3X/NOPB - NATIONAL SEMICONDUCTORS	326	NO	326	30.SEP.2023
171	DV0692355863 CPU BOARD EBC500-BH EBC500-BH (P/N: 10E00050007X3) RoHS Compliant OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM THE INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. 10E00050007X3 - NEXCOM INTERNATIONAL CO., LTD. Test Certificate	9	NO	9	30.SEP.2023
	DV0692356215 IC RS485 TRANSCVR ISL3179E SOIC8 SMD MA PART NO: 60213179,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. ISL3179EIBZ-T - RENESAS TECHNOLOGY SINGAPORE PTE. L ISL3179EIBZ - RENESAS TECHNOLOGY SINGAPORE PTE. L ISL3179EIBZ-T7A - RENESAS TECHNOLOGY SINGAPORE PTE. L Test Certificate	3,250	NO	3,250	30.SEP.2023
	DV0692356916 IC ANA OPAMP DUAL AD8512ARZ SO8 SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. METSO PART NO: 60128512,0 OEM TUBE PACKAGE IS ALSO ACCEPTABLE		NO	1,568	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	AD0542ADZ ANALOC DEVICES DV				
	AD8512ARZ - ANALOG DEVICES BV DV0692356975 IC FLA SER 32Mb M25P32-VMP6G VFQFPN8 SMD ROHS DEVICE WITH BACKWARD COMPATIBILITY OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. METSO PART NO: 60422532,0 M25P32-VMP6G - MICRON SEMICONDR ASIA PACIFIC PVT L IS25LP032D-JKLE-TR - INTEGRATED SILICON SOLUTION INC. IS25LP032D-JKLE - INTEGRATED SILICON SOLUTION INC.	1,400	NO	1,400	30.SEP.2023
1	DV0692357769 IC DAC SER 14BIT 1CH AD5641 SC70-6 SMD DAC SER 14BIT 1CH AD5641 SC70-6 MA PART NO: 60105641,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM THE INVOICE DATE.	500	NO	500	30.SEP.2023
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. AD5641AKSZ - ANALOG DEVICES BV DV0692357785 IC DIGITAL ISOLATOR 4CH ADuM3401C SMD	47	NO	47	20 SED 2022
	DIGITAL ISOLATOR 4CH ADuM3401CR SOW16 MA PART NO: 60103403,0 ROHS DEVICE WITH BACKWARD COMPATIBILITY OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE ADUM3401CRWZ - ANALOG DEVICES BV		INO	47	30.SEP.2023
177	DV0692357793 IC OPAMP AD8276ARMZ MSOP8 SMD Metso Part No:60128276,0 OEM PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.	50	NO	50	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

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Due Date 15.MAY.2023 Time: 13:00 HRS

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BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. AD8276ARMZ - ANALOG DEVICES BV DV0692361301 IGBT 1200V 20A TO-263 AA SMD 178 IXGA20N120A3 TO-263 AA package. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. IXGA20N120A3 - IXYS CORPORATION DV0692390090 IC IF TTL HEX BUFFER SN7417D SOIC14 179 IC TTL SN7417 SOIC14 HEX BUFFER DRIVER WITH OPEN COLLECTOR. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. Date-code and decoding information of the date-code to be made available along with the item SN7417D - TEXAS INSTRUMENTS		
DV0692361301 IGBT 1200V 20A TO-263 AA SMD IXGA20N120A3 TO-263 AA package. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. IXGA20N120A3 - IXYS CORPORATION DV0692390090 IC IF TTL HEX BUFFER SN7417D SOIC14 IC TTL SN7417 SOIC14 HEX BUFFER DRIVER WITH OPEN COLLECTOR. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. Date-code and decoding information of the date-code to be made available along with the item SN7417D - TEXAS INSTRUMENTS		
178 IXGA20N120A3 TO-263 AA package. OEM PACKING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. IXGA20N120A3 - IXYS CORPORATION DV0692390090 IC IF TTL HEX BUFFER SN7417D SOIC14 179 IC TTL SN7417 SOIC14 HEX BUFFER DRIVER WITH OPEN COLLECTOR. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. Date-code and decoding information of the date-code to be made available along with the item SN7417D - TEXAS INSTRUMENTS		
DV0692390090 IC IF TTL HEX BUFFER SN7417D SOIC14 IC TTL SN7417 SOIC14 HEX BUFFER DRIVER WITH OPEN COLLECTOR. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. Date-code and decoding information of the date-code to be made available along with the item SN7417D - TEXAS INSTRUMENTS	50	30.SEP.2023
IC TTL SN7417 SOIC14 HEX BUFFER DRIVER WITH OPEN COLLECTOR. OEM TAPE AND REEL PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. Date-code and decoding information of the date-code to be made available along with the item SN7417D - TEXAS INSTRUMENTS		
	813	30.SEP.2023
DM7417M - ON SEMI CONDUCTOR	47	00.055.000
DV0692390154 IC HIGH PRECS VOLTREF AD688ARWZ 180 SMD16PIN IC High Precision Voltage Ref Device with 3.3V. OEM:ANALOG DEVICES P/N: AD688ARWZ SOIC 16PIN OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Date-code and decoding information of the date-code to be made available along with the item AD688ARWZ - ANALOG DEVICES BV	47	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DV0692390197 IC DUAL LDO 3.3V TPS767D301Q SMD 28PIN	42	NO	42	30.SEP.2023
181	IC DUAL-OUTPUT LOW-DROPOUT VOLTAGE REG.				
	with 3.3V output and Adjustable				
	range. HTSSOP 28PIN Device OEM:TEXAS				
	INSTRUMENTS				
	P/N:TPS767D301QPWPRQ1,				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM				
	THE ABOVE."				
	Date-code and decoding information of the date-code to be				
	made				
	available along with the item				
	TPS767D301QPWPRQ1 - TEXAS INSTRUMENTS				
	DV0692400001 OPTOCOUPLER 5KV CNY17-3-300E SMD	3,000	NO	3,000	30.SEP.2023
192	OPTOCOUPLER 5KV SMD	3,000	NO	3,000	30.3EF.2023
162	OEM:AVAGO				
	P/N:CNY17-3-300E				
	1/14.CI411/ 5 500E				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	CNY17-3-300E - BROADCOM LIMITED				
	DV0692400010 IC FPGA CYCLONE II EP2C15AF484I8N SMD	1,092	NO	1,092	30.SEP.2023
183	IC FPGA ALTERA CYCLONE II				
	315IO 14.448LE 26KB 25MUL 4PLL				
	OEM:ALTERA				
	P/N:EP2C15AF484I8N				
	HOEM DA GWA CING ONLY				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."				
	Loose packets and boxes not acceptable				
	Louse packets and boxes not acceptable				
				1	

For and On behalf of BHEL.

Page 39 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	EP2C15AF484I8N - INTEL CORPORATION				
184	DV0692400044 IC SERIAL NUMBER SILICON DS2401P+ SMD IC SERIAL NUMBER SILICON TSOC6 OEM:DALLAS P/N:DS2401P+ TAPE-REEL ONLY "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable	4,000	NO	4,000	30.SEP.2023
	DS2401P+ - ANALOG DEVICES BV				
	DV0692400230 IC SDRAM 128MB 8MX16 MT48LC8M16A2P75 SMD SDRAM 128MB 8MX16 3.3V 133MHZ CL3 TSSOP-54 OEM:MICRON P/N:MT48LC8M16A2P75 IT "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable MT48LC8M16A2P75 IT - MICRON SEMICONDR ASIA PACIFIC PVT L MT48LC8M16A2P-6A IT:L - MICRON SEMICONDR ASIA PACIFIC PVT L	6,750	NO	6,750	30.SEP.2023
186	DV0692400630 IC CMOS RS232 DRVR/RCSVR ADM232AARNZ SMD 2 CHANNEL RS232 CONVERTER 5V OEM:ANALOG DEVICES P/N:ADM232AARNZ "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."	3,696	NO	3,696	30.SEP.2023

For and On behalf of BHEL.

Page 40 OF 69



MMI:PU:RF:003

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	Loose packets and boxes not acceptable				
	ADM232AARNZ - ANALOG DEVICES BV				
187	DV0692400664 IC DUAL-CH DIGTL ISOLTOR ADuM1200ARZ SMD ISOLATOR DIGITAL DUAL 1MBPS SO-8 OEM:ANALOG DEVICES P/N:ADuM1200ARZ	1,000	NO	1,000	30.SEP.2023
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only				
	ADUM1200ARZ-RL7 - ANALOG DEVICES BV	4 000		4 000	
188	DV0692400699 IC nanoDAC 12-BIT 4-CH AD5624RBRM-3 SMD IC DAC 12-BIT 4US 4-CHANNEL WITH 1.25VREF MSOP-10 OEM:ANALOG DEVICES P/N:AD5624RBRM-3	1,000	NO	1,000	30.SEP.2023
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only				
	AD5624RBRM-3REEL7 - ANALOG DEVICES BV				
189	DV0692401512 IC TRSCVR PHYTER DP83848IVV/NOPB SMD IC ETHERNET PHYTER 10/100 MB/S OEM: NATIONAL SEMICONDUCTOR P/N: DP83848IVV/NOPB	1,000	NO	1,000	30.SEP.2023
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable				
	OEM/Autohrised distributors COC shall be submitted during				

For and On behalf of BHEL.

Page 41 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

RFQ DATE: 04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,, BANGALORE - 560026 Karnataka India (for all correspondence)

Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	delivery and				
	same shall be confirmed at the time of quotation				
	DP83848IVV/NOPB - TEXAS INSTRUMENTS				
	DV0692401520 IC REG 3A SYNCHRONOUS 5V LM20133M SMD	1,750	NO	1,750	30.SEP.2023
190	IC REGULATOR 3A SYNCHRONOUS 5V IN	1,730	NO	1,730	30.3EF.2023
	OEM:NATIONAL SEMICONDUCTOR				
	P/N:LM20133M				
	HOEM BACK ACDIC ONLY				
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	Tape and Reel only				
	OEM/Autohrised distributors COC shall be				
	submitted during delivery and same shall				
	be confirmed at the time of quotation				
	LM20133MHE - TEXAS INSTRUMENTS				
	DV0692401547 IC RS485/422 BUS TRANSVCR LMS1487EIM SMD		NO	11,250	30.SEP.2023
191	IC RS-422/RS-485 TRANSCEIVER	11,250			
	2.5MBPS HALF-DUPLEX 5V				
	OEM:NATIONAL SEMICONDUCTOR P/N:LMS1487EIM				
	I/N.EMIGITO/EIMI				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."				
	Loose packets and boxes not acceptable Tape and Reel only				
	T Transfer of the second				
	OEM/Autohrised distributors COC shall be				
	submitted during delivery and same shall				
	be confirmed at the time of quotation				
	SN65HVD1782DR - TEXAS INSTRUMENTS				
	LMS1487EIMX - TEXAS INSTRUMENTS				
	DV0692401644 IC VOLT REG INHIBIT 3.3V LF33ABDT D-PAK	5,000	NO	5,000	30.SEP.2023

For and On behalf of BHEL.

Page 42 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

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BHEL, Electronics Division (X563699)

MYSORE ROAD,, BANGALORE - 560026

Karnataka India

(for all correspondence)
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E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	IC REGULATOR 3.3V .5A LDO D-PAK				
192	OEM:ST				
	P/N:LF33ABDT				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."				
	Loose packets and boxes not acceptable				
	Loose packets and boxes not acceptable				
	LF33ABDT - SGS THOMSON MICROELECTRONICS				
	DV0692401652 IC F-EPROM 64MB 4MX16/8MX8 M29W640FT70N6	1,920	NO	1,920	30.SEP.2023
193	FLASH MEMORY 64MBIT 4MX16/8MX8 3V TSOP 48				
	OEM:ST				
	P/N:M29W640FT70N6				
	OEM DA CV A CINIC ONLY				
	OEM PACKAGING ONLY. Loose packets and boxes not acceptable				
	Loose packets and boxes not acceptable				
	M29W640FT70N6E - MICRON SEMICONDR ASIA PACIFIC PVT L				
	MX29GL640ETTI-70G - MACRONIX INTERNATIONAL CO., LTD.				
	DV0692401679 IC SUPER WATCHDOG TIMER STM6822TWY6	7,500	NO	7,500	30.SEP.2023
194	SMD				
	SUPERVISOR UP OD/RESET 200MS 3.08V /MR WDI				
	SOT23-5				
	OEM:ST				
	P/N:STM6822TWY6				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	Tape and Reel only				
	OTMOROGIANVOE OOO THOMOON MODOS! SOTTOMICS				
	STM6822TWY6F - SGS THOMSON MICROELECTRONICS	405	NO.	405	20 055 2222
105	DV0692401687 IC CMS Q- BILATERAL SWITCH CD4066BCM SMD SWITCH ANALOG QUAD SOIC-14	495	NO	495	30.SEP.2023
195	OEM:TEXAS INSTRUMENTS				
	P/N:CD4066BCM				
	I/IIIOD IIIIIII				
				·	

For and On behalf of BHEL.

Page 43 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable CD4066BCM - TEXAS INSTRUMENTS CD4066BM - TEXAS INSTRUMENTS				
196	HCF4066BM1 - SGS THOMSON MICROELECTRONICS DV0692401709 IC SINGLE CH RS-232 TRSCVR MAX3221ID SMD RS-232 TRANSCEIVER 250KBPS 3-5.5V WITH 15KV ESD PROTECTION OEM:TEXAS INSTRUMENTS P/N:MAX3221IDBE4	7,520	NO	7,520	30.SEP.2023
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation				
	MAX3221IDBE4 - TEXAS INSTRUMENTS MAX3221IDBR - TEXAS INSTRUMENTS				
197	DV0692401725 IC CAN TRSCVR FOR 24V SN65HVD251D SMD CAN TRANSCEIVER FOR 24V SYSTEMS SO-8 OEM:TEXAS INSTRUMENTS P/N:SN65HVD251D "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM	4,088	NO	4,088	30.SEP.2023
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only OEM/Autohrised distributors COC shall be				

For and On behalf of BHEL.

Page 44 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	submitted during delivery and same shall				
	be confirmed at the time of quotation				
	SN65HVD251D - TEXAS INSTRUMENTS				
198	DV0692401741 IC 16-BIT BUS TRANSCVR SN74LVCHR16245AGR BUS TRANSCEIVER 16-BIT 3-STATE OUT BUS HOLD 5V-TOL OUTPUT-RS OEM:TEXAS INSTRUMENTS P/N: SN74LVCHR16245AGR PACKAGING: TSSOP-DGG SMD "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and same shall	2,667	NO	2,667	30.SEP.2023
	be confirmed at the time of quotation				
	SN74LVCHR16245AGR - TEXAS INSTRUMENTS				
199	DV0692401750 IC ADJ PRECSN SHUNT REG 36V TL431BIDBZ REFERENCE SHUNT ADJUSTABLE 36V 100MA OEM:TEXAS INSTRUMENTS P/N: TL431B DBZ PACKAGING: SOT-23-3(DBZ)	3,000	NO	3,000	30.SEP.2023
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only				
	OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation				
	TL431BIDBZ - TEXAS INSTRUMENTS				
200	DV0692401768 IC CONTR CURRENT MODE PWM UC2845ANG4 CONTROLLER CURRENT MODE PWM PDIP-8	3,250	NO	3,250	30.SEP.2023

For and On behalf of BHEL.

Page 45 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	OEM:TEXAS INSTRUMENTS				
	P/N: UC2845ANG4				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	OEM/Autohrised distributors COC shall be				
	submitted during delivery and same shall				
	be confirmed at the time of quotation				
	be confirmed at the time of quotation				
	UC2845ANG4 - TEXAS INSTRUMENTS				
	DV0692402187 IC FPGA MAX-II 240LE EPM240T100I5N SMD	540	NO	540	30.SEP.2023
201	FPGA ALTERA MAX-II CPLD				
	240LE 8KBIT 80IO TQFP-100				
	OEM:ALTERA P/N:EPM240T100L5N				
	HOEM DACK A CINC ONLY				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	20050 puckets and coxes not acceptable				
	EPM240T100I5N - INTEL CORPORATION				
	DV0692402390 IC MVB CONTROLLER INTERFACE PC30 D013LF	342	NO	342	30.SEP.2023
202	OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE				
	D013LF-S - DUAGON AG				
	DV0692402500 IC OPAMP DUAL LOW OFFSET OP727AR SMD	1,000	NO	1,000	30.SEP.2023
203	IC OPERATIONAL AMPLIFIER	,		, , , ,	
	DUAL LOW OFFSET SO-8 SMD				
	OEM:ANALOG DEVICES				
	P/N:OP727AR				
	HOEM BACK A CIDIC ONLY				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 36 MONTHS FROM				

For and On behalf of BHEL.

Page 46 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

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IC OPTOCOUPLER GATE DRIVE .4A SMD OEM:AVAGO/AGILENT P/N:HCPL-3020-300E "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED	000 30.SEP.2023
THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only OP727ARZ-REEL7 - ANALOG DEVICES BV DV0692402535 OPTOCOUPLER GATE DRV HCPL-3020-300E SMD 1C OPTOCOUPLER GATE DRIVE .4A SMD OEM:AVAGO/AGILENT P/N:HCPL-3020-300E "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V S016 SMD OEM:NATIONAL SEMICONDUCTORS	000 30.SEP.2023
THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only OP727ARZ-REEL7 - ANALOG DEVICES BV DV0692402535 OPTOCOUPLER GATE DRV HCPL-3020-300E SMD 1C OPTOCOUPLER GATE DRIVE .4A SMD OEM:AVAGO/AGILENT P/N:HCPL-3020-300E "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V S016 SMD OEM:NATIONAL SEMICONDUCTORS	000 30.SEP.2023
OP727ARZ-REEL7 - ANALOG DEVICES BV DV0692402535 OPTOCOUPLER GATE DRV HCPL-3020-300E SMD 1C OPTOCOUPLER GATE DRIVE .4A SMD OEM:AVAGO/AGILENT P/N:HCPL-3020-300E "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	000 30.SEP.2023
DV0692402535 OPTOCOUPLER GATE DRV HCPL-3020-300E SMD IC OPTOCOUPLER GATE DRIVE .4A SMD OEM:AVAGO/AGILENT P/N:HCPL-3020-300E "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	000 30.SEP.2023
DV0692402535 OPTOCOUPLER GATE DRV HCPL-3020-300E SMD IC OPTOCOUPLER GATE DRIVE .4A SMD OEM:AVAGO/AGILENT P/N:HCPL-3020-300E "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	000 30.SEP.2023
204 IC OPTOCOUPLER GATE DRIVE .4A SMD OEM:AVAGO/AGILENT P/N:HCPL-3020-300E "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD 1C RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	000 30.SEP.2023
OEM:AVAGO/AGILENT P/N:HCPL-3020-300E "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
P/N:HCPL-3020-300E "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
THE ABOVE." Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
Loose packets and boxes not acceptable HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD 672 NO IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
HCPL-3020-300E - BROADCOM LIMITED DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD 205 IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
DV0692402594 IC RECEIVER DIFF EN QUAD DS34LV86TM SMD 205 IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	
205 IC RECEIVER DIFFERENTIAL WITH EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	672 30.SEP.2023
EN QUAD 3.3V SO16 SMD OEM:NATIONAL SEMICONDUCTORS	00.021 .2020
OEM:NATIONAL SEMICONDUCTORS	
"OEM PACKAGING ONLY.	
DATE CODE TO BE LESS THAN 24 MONTHS FROM	
INVOICE DATE.BHEL'S WRITTEN APPROVAL IS	
REQUIRED IN CASE OF ANY DEVIATION FROM	
THE ABOVE."	
Loose packets and boxes not acceptable	
OEM/Autohrised distributors COC shall	
be submitted during delivery and	
same shall be confirmed at the time	
of quotation	
DS34LV86TM/NOPB - TEXAS INSTRUMENTS	
	000 30.SEP.2023
206 IC DRIVER MOSFET QUAD 1.2A	30.3L1 .2023
OEM:MICREL	l
P/N:MIC4469YWM	

For and On behalf of BHEL.

Page 47 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."				
	Loose packets and boxes not acceptable Tape and Reel only				
	MIC4469YWM-TR - MICROCHIP TECHNOLOGY LTD				
207	DV0692403396 IC SWITCH ANALOG SPST QUAD SMD IC SWITCH ANALOG CMOS SPST QUAD SMD OEM:VISHAY P/N:DG411DY	1,000	NO	1,000	30.SEP.2023
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable				
	DG411DY-E3 - VISHAY INTER TECHNOLOGY ASIA PTE. L				
208	DV0692403434 IC COMPARATOR QUAD 36V 7MVOS LM2901M SMD IC COMPARATOR QUAD 36V 7MVOS OEM:NATIONAL SEMICONDUCTORS P/N:LM2901M "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation	633	NO	633	30.SEP.2023

For and On behalf of BHEL.

Page 48 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,, BANGALORE - 560026 Karnataka India (for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR Phone : 08026989133

Fax :

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	I MOOOAM TEVAC INCTRUMENTO				
	LM2901M - TEXAS INSTRUMENTS DV0692403442 IC REG ADJ 1.5A 3-TERMINAL LM317AMDT SMD	550	NO	550	30.SEP.2023
209	IC REGULATOR ADJUSTABLE 3-TERMINAL 1.5A	330	NO	330	30.3EF.2023
	OEM:NATIONAL SEMICONDUCTOR				
	P/N:LM317AMDT				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	Loose packets and boxes not acceptable				
	OEM/Autohrised distributors COC				
	shall be submitted during delivery and				
	same shall be confirmed at the				
	time of quotation				
	LM317AMDT - TEXAS INSTRUMENTS				
	DV0692403477 IC SL FLASH MEMORY 64MB SMD	1,000	NO	1,000	30.SEP.2023
210	OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM				
	THE ABOVE.				
	Loose packets and boxes not acceptable				
	M25P64-VMF6TP - MICRON SEMICONDR ASIA PACIFIC PVT L				
	IS25LP064A-JMLE-TR - INTEGRATED SILICON SOLUTION INC.				
	DV0692403485 IC DAC 10-BIT 1US 2-CHAN TLV5617AID SMD	275	NO	275	30.SEP.2023
211	IC DAC 10-BIT 1US 2-CHANN SERIAL SO-8				
	OEM:TI P/N:TLV5617AID				
	1/11.11.1301/AID				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."				
	THE ADUVE.				

For and On behalf of BHEL.

Page 49 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

VENUE : SUB ASSLY PUR

Due Date

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and				
	same shall be confirmed at the time of quotation				
212	TLV5617AID - TEXAS INSTRUMENTS DV0692403493 IC TRANS ARRAY DARLINGTON ULQ2003AD SMD IC TRANSISTOR ARRAY DARLINGTON 7X3VIN OEM:TI P/N:ULQ2003AD "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and	920	NO	920	30.SEP.2023
	same shall be confirmed at the time of quotation ULQ2003AD - TEXAS INSTRUMENTS				
213	DV0692403566 IC REF VOLT 3V 0.1% 50PPM SMD IC REFERENCE 3.0V 0.1% 50PPM SO-8 OEM TAPE & REEL PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE Loose packets and boxes not acceptable REF193GSZ-REEL - ANALOG DEVICES BV	3,750	NO	3,750	30.SEP.2023
214	DV0692403574 IC CONFG DEVICE SERIAL 1MB SMD IC CONFIGURATION DEVICE SERIAL 1MBIT OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS	1,775	NO	1,775	30.SEP.2023

For and On behalf of BHEL.

Page 50 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

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For and On behalf of BHEL.

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BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation LM7171AIMX/NOPB - TEXAS INSTRUMENTS				
218	DV0692403850 IC ADJ VOLT REG 2A 150KHZSMD IC SIMPLE SWITCHER POWER CONVERTER 2A 150KHZ STEP DOWN VOLTAGE REGULATOR HIGH VOLT TO-263 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE To be supplied in tape & reel only. Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation	2,000	NO	2,000	30.SEP.2023
219	LM2593HVSX-ADJ/NOPB - TEXAS INSTRUMENTS DV0692403876 IC MONO ASTABLE MULTVIBRTOR SMD IC MONOSTABLE ASTABLE MULTIVIBRATOR OEM TAPE & REEL PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE Loose packets and boxes not acceptable	2,500	NO	2,500	30.SEP.2023
220	HEF4047BT,653 - PHILIPS SEMICONDUCTORS / NXP DV0692404147 IC DRIV MOS 1.5A NON-INV SMD OEM TAPE & REEL PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable.	7,700	NO	7,700	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

RFQ DATE: 04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	TC4427VOA713 - MICROCHIP TECHNOLOGY LTD				
221	DV0692404155 IC DRIV MOSFET 1.5A COMPL SMD OEM TAPE & REEL PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable. TC4428VOA713 - MICROCHIP TECHNOLOGY LTD	9,900	NO	9,900	30.SEP.2023
222	DV0692404368 IC REG BUCK1.5V 2A 1.5MHZ LM2852XMXA SMD REGULATOR BUCK SIMPLE SYNCHRONOUS 1.5V 2A 1.5MHZ OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation	846	NO	846	30.SEP.2023
223	DV0692404376 IC HI-VOLTG REG 0.3A 600KHZ LM5008MM SMD REGULATOR BUCK HIGH VOLTAGE 0.3A 600KHZ OSMM SMD REGULATOR BUCK HIGH VOLTAGE 0.3A 600KHZ OSMM SMD OSMM: OEM:NATIONAL SEMICONDUCTORS P/N:LM5008MM "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only	3,500	NO	3,500	30.SEP.2023

For and On behalf of BHEL.

Page 53 OF 69



MMI:PU:RF:003

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation LM5008MM - TEXAS INSTRUMENTS				
224	DV0692404392 IC SWITCH 3A 260KHZ LM2673SX-ADJ SMD SIMPLE SWITCHER 3A STEP DOWN VOLTAGE ADJUSTABLE CURRENT LIMIT TO-263 OEM:NATIONAL SEMICONDUCTORS P/N:LM2673SX-ADJ "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only OEM/Autohrised distributors COC shall be submitted during delivery and same shall be confirmed at the time of quotation	2,000	NO	2,000	30.SEP.2023
225	LM2673SX-ADJ/NOPB - TEXAS INSTRUMENTS DV0692404406 IC REF 2V 0.2% 50PPM LM4120AIM5-2.0 SMD REFERENCE 2V 0.2% 50PPM SOT23-5 OEM:NATIONAL SEMICONDUCTORS P/N:LM4120AIM5-2.0 "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only OEM/Autohrised distributors COC shall be submitted during delivery and	2,000	NO	2,000	30.SEP.2023

For and On behalf of BHEL.

Page 54 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

RFQ DATE: 04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	same shall be confirmed at the				
	time of quotation				
	LM4120AIM5-2.0 - TEXAS INSTRUMENTS				
	DV0692404449 OPTO FBR TRNSMTR DIODE Q62702-P1715	852	NO	852	30.SEP.2023
226	PLASTIC FIBER OPTIC				
	TRANSMITTER DIODE SFH756V				
	OEM:INFINEON				
	P/N:Q62702-P1715				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	GENERAL OPPENDIG CODE GROOMS 2014				
	SFH756V: ORDERING CODE - SP000063814				
	SFH756V - BROADCOM LIMITED	0.000	_	0.000	
	DV0692404554 IC REG 5V 0.1A LDO HT7550-1 SOT89 SMD	9,000	NO	9,000	30.SEP.2023
227	REGULATOR 5V 0.1A LDO				
	LOW POWER SOT-89 OEM:HOLTEK				
	P/N:HT7550-1-SOT89TRLF				
	F/N.H1/330-1-301691KLF				
	"OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM				
	THE ABOVE."				
	To be supplied in tape & reel only.				
	Loose packets and boxes not acceptable				
	·				
	HT7550-1-SOT89TRLF - HOLTEK SEMICONDUCTOR (USA) INC.,				
	DV0692404880 OPTCPLR:HIGH INSULTN VOLT SMD	4,500	NO	4,500	30.SEP.2023
228	OEM PACKAGING ONLY.				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE.BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY				
	DEVIATION FROM				
	THE ABOVE.				
	Loose packets and boxes not acceptable				

For and On behalf of BHEL.

Page 55 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	ACNV2601-500E - BROADCOM LIMITED				
	Test Certificate				
229	DV0692404970 IC RS-485 TRANSCEIVER ADM1485 SMD IC RS-485 TRANSCEIVER ADM1485 SMD OEM: ANALOG DEVICES P/N: ADM1485ARZ-REEL7	2,200	NO	2,200	30.SEP.2023
	"OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only				
	ADM1485ARZ-REEL7 - ANALOG DEVICES BV				
230	DV0692406387 OPTOCOUPLER THT CNY65B Optocoupler DC-IN 1-CH Transistor DC-OUT 4-Pin PDIP CNY65B - VISHAY INTER TECHNOLOGY ASIA PTE. L	660	NO	660	30.SEP.2023
231	DV0692410597 IC ADC 10-BIT 250KSPS 2-CH SL MSOP-8 SMD IC ADC 10-BIT 250KSPS 2-CHANNEL SERIAL MSOP-8 OEM:ADI P/N:AD7911ARM OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.	2,500	NO	2,500	30.SEP.2023
	Loose packets and boxes not acceptable Tape and Reel only AD7911ARMZ-REEL7 - ANALOG DEVICES BV				
232	DV0692411666 IC SERIAL ADC 12B 250KSPS MSOP-8 SMD OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE Loose packets and boxes not acceptable Tape and Reel only		NO	1,000	30.SEP.2023
	AD7920BRMZ-REEL7 - ANALOG DEVICES BV				
	DV0692411682 IC QUAD 2 I/P AND GATE 74LV08D SO-14 SMD	5,000	NO	5,000	30.SEP.2023

For and On behalf of BHEL.

Page 56 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
233	OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE Loose packets and boxes not acceptable Tape and Reel only 74LV08D - PHILIPS SEMICONDUCTORS / NXP				
234	DV0692411879 IC SWITCH CURRENT LTD 1A SOT-23 SMD SWITCH, CURRENT LTD, 1A, SOT23 OEM: TEXAS INSTRUMENTS P/N: TPS2051BDBV OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE Loose packets and boxes not acceptable Tape and Reel only TPS2051BDBV - TEXAS INSTRUMENTS		NO	250	30.SEP.2023
235	DV0692411890 MVB INTERFACE D113L-T-P4A MVB MDFULL EMD INTERFACE D113L-T-P4A - DUAGON AG	116	NO	116	30.SEP.2023
236	DV0692430105 IC ADC 12BIT 1MSPS SERIAL SMD DATE CODE TO BE LESS THAN 36 MONTHS FROM NVOICE DATE.BHEL'S WRITTEN APPROVAL ISREQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. AD7476ARTZ-500RL7 - ANALOG DEVICES BV		NO	750	30.SEP.2023
237	DV0692430385 IC FIFO USB DUAL UART INTERFACE 32QFN USB UART 2-ch Full speed QFN-32 OEM:EXAR P/N.XR21V1412IL32 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable.	490	NO	490	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	Tape and Reel only				
	•				
	XR21V1412IL32-F - EXAR CORPORATION				
	DV0692430393 IC ARM MCU CORTEX M4 512K FLASH 2xCAN	324	NO	324	30.SEP.2023
238	Microcontroller ARM CORTEX M4 512k flash 2xCAN etc.				
	120MHz OEM:NXP				
	P/N:LPC4088FBD208 "OEM PACKAGING ONLY. DATE				
	CODE TO BE LESS THAN 24				
	MONTHS FROM INVOICE DATE.BHEL'S WRITTEN				
	APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and				
	boxes not acceptable				
	Tape and Reel only				
	· · · · · · · · · · · · · · · · · · ·				
	LPC4088FBD208 - PHILIPS SEMICONDUCTORS / NXP				
	DV0692430435 E-NET CNTRL INT ETH CARD D013E-TR-O-N-MQ	3,000	NO	3,000	30.SEP.2023
239	Ethernet Controller Component OEM:DUAGON				
	P/N.D013E-TR-O-N-M-Q				
	D013E-TR-O-N-M-Q#U001 - DUAGON AG				
1	DV0692430493 IC SDRAM 256MB 8Mx16 3.3V 167MHz TSOP-54	324	NO	324	30.SEP.2023
240	SDRAM 256Mb 8Mx16 3.3V 167MHz CL3				
	TSOP-54 OEM:ISSI P/N.IS42S16160G-7TLI				
	OEM PACKAGING ONLY. DATE CODE TO BE				
	LESS THAN 24 MONTHS FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	Loose packets and boxes not acceptable				
	•				
	IS42S16160G-7TLI - INTEGRATED SILICON SOLUTION INC.				
	DV0692430585 OPTCPLR ISLTR 3KV SINGLE DC INPUT SO-4		NO	15,200	30.SEP.2023
241	Optocoupler Single DC Input SO4	15,200			
	OEM:AVAGO / BROADCOM P/N.ACPL-217-50BE				
	OEM PACKAGING ONLY. DATE CODE TO BE				
	LESS THAN 24 MONTHS FROM INVOICE DATE.				
	BHEL'S WRITTEN APPROVAL IS				
	REQUIRED IN CASE OF ANY DEVIATION FROM THE				
	ABOVE.				
	Loose packets and				
	boxes not acceptable.				
	Tape and Reel only				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,,
BANGALORE - 560026
Karnataka India

(for all correspondence)
Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax :

E-mail: ckgupta@bhel.in

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	ACPL-217-50BE - BROADCOM LIMITED				
242	DV0692430627 IC REG ADJ LDO LINEAR VOLT 800mA Adjustable LDO 800mA OEM:TEXAS INSTRUMENT P/N:LP38511-ADJ "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."		NO	1,000	30.SEP.2023
	Loose packets and boxes not acceptable Tape and Reel only LP38511TJ-ADJ - TEXAS INSTRUMENTS				
243	DV0692430669 IC FPGA CYCLONE IV 343IO 15K LE FPGA Altera Cyclone IV, 343IO 15K LE OEM: ALTERA P/N:EP4CE15F23I7N "OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE." Loose packets and boxes not acceptable Tape and Reel only EP4CE15F23I7N - ALTERA CORPORATION		NO	240	30.SEP.2023
244	DV0692430843 IC FLASH 128M SPI 3.3V 104MHZ 8SOP SMD IC FLASH 128M SPI CMOS 3.3V 104MHZ 8SOP, NOR MEMORY OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. Loose packets and boxes not acceptable. TO BE VACUUM PACKED AS MOISTURE SENSITIVITY LEVEL-3(168HRS) MX25L12835FM2I-10G - MACRONIX INTERNATIONAL CO., LTD.		NO	2,000	30.SEP.2023
	DV0692431485 75 V, 1.5A Step-Down Switch RegulatorSMD OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE. LM5575MHX/NOPB - TEXAS INSTRUMENTS		NO	2,500	30.SEP.2023
246	DV0692431593 Floating point DSP SHARC SMD OEM- ANALOG DEVICES PACKAGE - BGA-324 OEM PACKAGING ONLY. DATE CODE TO	181	NO	181	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

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To:

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Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

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Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

BE LESS THAN 24 MONTHS FROM INVOICE DATE BRIELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVELLOOSE PACKAGE AND BOXES NOT ACCEPTABLE. ADSP-214696B62C3 - ANALOG DEVICES BY DV0692431745 UITR-Small, Hex Voltage, Microprocessor 200 NO 200 30.SEP.2023 247 OEM- MAXIM OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE-BRIELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE, LOOSE PACKET AND BOXES NOT ACCEPTABLE. MAX16055A0UB+ - MAXIM INTEGRATED PRODS INC V06892431918 IC PREC ACYCLONE IV SKILE EOFP-144 SMD 248 FPGA Intel Cyclone IV 6kLE EOFP-144 TO BE SUPPLIED IN OEM PACKING ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE-BRIELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. EP4CE652217N - INTEL CORPORATION DV06892431942 IC ADC 12BIT 3MSPS SOT23 SMD 249 IC ADC 12BIT 3MSPS SOT23 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE-BRIELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE. AD276AULS-SORUT- ANALOG DEVICES BY DV0692442707 IC MP SUPERVSR MAX707ESA 4.6SV SOICS SMD DV0692442707 IC MP SUPERVSR MAX707ESA 4.6SV SOICS SMD DV0692442707 IC MP SUPERVSR MAX707ESA 4.6SV SOICS SMD INVOICE DATE-BRIELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MAX707ESA+ - ANALOG DEVICES BY DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE-BRIELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MAX707ESA+ - ANALOG DEVICES BY DRW 125AE40 01 DV0692442504 IC PREC INSTR AMP AD5245D 16P CDIP 210 DEV MAX DATE AND COMPATIBILITY. DATE CAPE AND CONTY.	Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE. ADSP-21469BBCC-3 - ANALOG DEVICES BV DV0692431745 UITR-Smail, Hex Voltage, Microprocessor 200 NO 200 30.SEP.2023 247 OEM- MAXIM OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. LOOSE PACKET AND BOXES NOT ACCEPTABLE. MAX16055A4UB+ - MAXIM INTEGRATED PRODS INC DV0692431918 IC FPGA CYCLONE IV 6KLE EOFP-144 SMD 248 FPGA Intel Cyclone IV 6KLE EOFP-144 TO BE SUPPLIED IN OEM PACKING ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. EF4CE6222IN-INTEL CORPORATION DV0692431942 IC ADC 12BIT 3MSPS SOT23 SMD 1,000 NO 1,000 30.SEP.2023 240 IC ADC 12BIT 3MSPS SOT23 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE. AD7276AUJZ-500RL7 - ANALOG DEVICES BV DV0692442707 IC MPSUPERVS MAX707ESA 4 65V SOICB SMD INVOICE DATE BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MAX707ESA+T - ANALOG DEVICES BV MAX707ESA+T - ANALOG DEVICES BV DRW 125AE40 01 DV0692443694 IC PREC INSTR AMP AD524SD 16P CDIP 185 NO 185 30.SEP.2023		BE LESS THAN 24 MONTHS FROM INVOICE				
ABOVELOOSE PACKAGE AND BOXES NOT ACCEPTABLE. ADSP-214698BC2-3 - ANALOG DEVICES BV DV6692431745 Ultrs-Small, Hex Voltage, Microprocessor 247 OEM- MAXIM OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. LOOSE PACKET AND BOXES NOT ACCEPTABLE. MAX16055AAUB+ - MAXIM INTEGRATED PRODS INC DV6692431918 IC FPGA CYCLONE IV 6KLE EQFP-144 SMD ANX16055AAUB+ - MAXIM INTEGRATED PRODS INC DV6692431918 IC FPGA CYCLONE IV 6KLE EQFP-144 FMD IN OWN PACKING ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. DV6692431942 IC ADC 12BIT 3MSPS SOT23 SMD 249 IC ADC 12BIT 3MSPS SOT23 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. DV669243707 IC MP SUPERVSR MAX707ESA 4.65V SOICS SMD 250 ROHS DEVICE WITH BACKWARD COMPATIBILITY. ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MAX707ESA+- ANALOG DEVICES BV MAX707ESA+- ANALOG DEVICES BV DRW 125AE40 01 DV6692443764 IC PREC INSTR AMP AD524SD 16P CDIP 185 NO 185 30.SEP.2023						
NOT ACCEPTABLE. ADSP-214698BCC-3 - ANALOG DEVICES BV						
ADSP-21469BBCZ-3 - ANALOG DEVICES BV						
DV0692431745 Ultra-Small, Hex Voltage, Microprocessor						
247 OEM. MAXIM OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE BHELS: WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. LOOSE PACKET AND BOXES NOT ACCEPTABLE. MAX16055AAUB+ - MAXIM INTEGRATED PRODS INC DV0692431918 IG FPGA CYCLONE IV 6KLE EQFP-144 SMD 248 FPGA Intel Cyclone IV 6KLE EQFP-144 TO BE SUPPLIED IN OEM PACKING ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. EP4CE6E2217N - INTEL CORPORATION DV0692431942 IC ADC 12BIT 3MSPS SOT23 SMD 249 IC ADC 12BIT 3MSPS SOT23 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE. AD7276AUJZ-500RL7 - ANALOG DEVICES BV DV0692442707 IC MP SUPERVSR MAX707ESA 4.65V SOICS SMD 250 ROHS DEVICE WITH BACKWARD COMPATIBILITY. ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MAX707ESA+T - ANALOG DEVICES BV MAX707ESA+T - ANALOG DEVICES BV DRW 12SAE40 01 DV0692443584 IC PREC INSTR AMP AD524SD 16P CDIP 185 NO 185 30.SEP.2023			222		222	
TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. LOOSE PACKET AND BOXES NOT ACCEPTABLE. MAX16055AAUB+ - MAXIM INTEGRATED PRODS INC DV0692431918 IC FPGA CYCLONE IV 6KLE EQFP-144 SMD 248 FPGA Intel Cyclone IV 6KLE EQFP-144 TO BE SUPPLIED IN OEM PACKING ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE.BHELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. EP4CE6E22I7N - INTEL CORPORATION DV0692431942 IC ADC 12BIT 3MSPS SOT23 SMD 1C ADC 12BIT 3MSPS SOT23 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.COSE PACKAGE AND BOXES NOT ACCEPTABLE. AD7276AUJZ-500RL7 - ANALOG DEVICES BV DV0692442707 IC MP SUPERVSR MAX707ESA 4 65V SOICS SMD INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MAX707ESA+T - ANALOG DEVICES BV MAX707ESA+T - ANALOG DEVICES BV MAX707ESA+T - ANALOG DEVICES BV DRW 12SAE40 01 DV0692443564 IC PREC INSTR AMP AD5245D 16P CDIP 185 NO 185 30.SEP.2023		· · · · · · · · · · · · · · · · · · ·	200	NO	200	30.SEP.2023
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REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. LOOSE PACKET AND BOXES NOT ACCEPTABLE. MAX16055AAUB+ - MAXIM INTEGRATED PRODS INC DV0692431918 IC FPGA CYCLONE IV 6KLE EQFP-144 SMD 300 NO 30. SEP.2023 248 FPGA Intel Cyclone IV 6KLE EQFP-144 TO BE SUPPLIED IN OEM PACKING ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE.BHELS WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. EP4CE6E22IVI - INTEL CORPORATION DV0692431942 IC ADC 12BIT 3MSPS SOT23 SMD 249 IC ADC 12BIT 3MSPS SOT23 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE. AD7276AUJZ-500RL7 - ANALOG DEVICES BV DV0692442707 IC MP SUPERVSR MAX707ESA 4 65V SOIC8 SMD INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MAX707ESA+T - ANALOG DEVICES BV MAX707ESA+T - ANALOG DEVICES BV MAX707ESA+T - ANALOG DEVICES BV DRW 12SAE40 01 DV0692443584 IC PREC INSTR AMP AD524SD 16P CDIP 185 NO 185 30.SEP.2023						
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BOXES NOT ACCEPTABLE. MAX16055AAUB+ - MAXIM INTEGRATED PRODS INC DV0692431918 IC FPGA CYCLONE IV 6KLE EQFP-144 SMD 248 FPGA Intel Cyclone IV 6kLE EQFP-144 TO BE SUPPLIED IN OEM PACKING ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. EP4C662217N - INTEL CORPORATION DV0692431942 IC ADC 12BIT 3MSPS SOT23 SMD 249 IC ADC 12BIT 3MSPS SOT23 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE. AD7276AUJZ-500RL7 - ANALOG DEVICES BV DV0692442707 IC MP SUPERVSR MAX707ESA 4.65V SOIC8 SMD 250 ROHS DEVICE WITH BACKWARD COMPATIBILITY. ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MAX707ESA+T - ANALOG DEVICES BV MAX707ESA+ - ANALOG DEVICES BV DRW 12SAE40 01 DV0692443564 IC PREC INSTR AMP AD524SD 16P CDIP 185 NO 100 30.SEP.2023						
DV0692431918 IC FPGA CYCLONE IV 6KLE EQFP-144 SMD 300 NO 300 30.SEP.2023						
PFGA Intel Cyclone IV 6kLE EQFP-144 TO BE SUPPLIED IN OEM PACKING ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE, BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. EP4CE6E22I7N - INTEL CORPORATION DV06924431942 IC ADC 12BIT 3MSPS SOT23 SMD 249 IC ADC 12BIT 3MSPS SOT23 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE, BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE, LOOSE PACKAGE AND BOXES NOT ACCEPTABLE. AD7276AUJZ-500RL7 - ANALOG DEVICES BV DV0692442707 IC MP SUPERVSR MAX707ESA 4.65V SOICS SMD DV0692442707 IC MP SUPERVSR MAX707ESA 4.65V SOICS SMD ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE, BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MAX707ESA+ - ANALOG DEVICES BV DRW 12SAE40 01 DV0692443584 IC PREC INSTR AMP AD524SD 16P CDIP 185 NO 100 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 30.SEP.2023		MAX16055AAUB+ - MAXIM INTEGRATED PRODS INC				
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DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. EP4CE6E22I7N - INTEL CORPORATION DV0692431942 IC ADC 12BIT 3MSPS SOT23 SMD 1,000 NO 1,000 30.SEP.2023 249 IC ADC 12BIT 3MSPS SOT23 OEM PACKAGING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.LOOSE PACKAGE AND BOXES NOT ACCEPTABLE. AD7276AUJZ-500R17 - ANALOG DEVICES BV DV0692442707 IC MP SUPERVSR MAX707ESA 4.65V SOIC8 SMD 250 ROHS DEVICE WITH BACKWARD COMPATIBILITY. ONLY. DATE CODE TO BE LESS THAN 2 YEARS FROM INVOICE DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE. MAX707ESA+T - ANALOG DEVICES BV DRW 12SAE40 01 DV0692443584 IC PREC INSTR AMP AD524SD 16P CDIP 185 NO 185 30.SEP.2023	248	FPGA Intel Cyclone IV 6kLE EQFP-144 TO BE SUPPLIED				
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DRW 12SAE40 01 DV0692443584 IC PREC INSTR AMP AD524SD 16P CDIP 185 NO 185 30.SEP.2023						
		DV0692443584 IC PREC INSTR AMP AD524SD 16P CDIP	185	NO	185	30.SEP.2023
	251			-	, ,	

For and On behalf of BHEL.

Page 60 OF 69



BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

RFO DATE:

04.MAY.2023

15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

Due Date

MMI:PU:RF:003

To: BHEL, Electronics Division (X563699)

MYSORE ROAD,,
BANGALORE - 560026
Karnataka India

(for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133 Fax:

E-mail: ckgupta@bhel.in

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	DATE CODE TO BE LESS THAN 36 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.				
	AD524SD - ANALOG DEVICES BV DRW 12SAE35 04				
252	DV0692445951 IC FPGA A3P600L FBGA484 SMD RoHS DEVICE. TO BE SUPPLIED IN OEM TRAY PACKING ONLY. DATE CODE TO BE LESS THAN 4 YEARS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE.	12	NO	12	30.SEP.2023
	A3P600L-FGG484I - MICROSEMI SOC PRODUCTS GROUP A3P600L-FGG484I - MICROCHIP TECHNOLOGY LTD DRW 12SAE35 04				
253	DV0692449868 IC SMD FPGA A42MX16-1PQ160M TO BE SUPPLIED IN OEM TRAY PACKING ONLY. DATE CODE TO BE LESS THAN 5 YEARS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE	146	NO	146	30.SEP.2023
	A42MX16-1PQ160M - MICROCHIP TECHNOLOGY LTD A42MX16-1PQG160M - MICROCHIP TECHNOLOGY LTD A42MX16-1PQ160M - MICROSEMI SOC PRODUCTS GROUP A42MX16-1PQG160M - MICROSEMI SOC PRODUCTS GROUP DRW 12SAE35 04				
254	DV0692451919 LCD GRAPHIC DISP MDL 128 X 64 LCD GRAPHIC DISP MDL 128 X 64	5	NO	5	30.SEP.2023
	COC TO BE PROVIDED AS PER DOCUMENT INDICATED IN THE ENQUIRY OEM PACKING ONLY. DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE LCD-128H064E1-YYH-VN - VISHAY INTER TECHNOLOGY ASIA PTE. L DRW 12SAE35 04				
255	DV0692452951 FLASH PRO4 JTAG PROGRAMMER FLASH PRO4 JTAG PROGRAMMER	11	NO	11	30.SEP.2023

For and On behalf of BHEL.

Page 61 OF 69



BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,,
BANGALORE - 560026
Karnataka India

(for all correspondence)
Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	Deliverables :				
	FlashPro4 programmer unit				
	USB A to mini-B USB cable				
	FlashPro4 10-pin ribbon cable				
	User manual				
	Warranty certificate for 90 Days from date of delivery				
	FLASH PRO4 - MICROSEMI SOC PRODUCTS GROUP				
256	DV0692501711 IC REG BUCK SYNC ADJ 3A MLP-12 SMD "IC REG BUCK SYNC ADJ 3A MLP-12 FAN5353MPX DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."		NO	100	30.SEP.2023
	FAN5353MPX - ON SEMI CONDUCTOR				
257	DV0692503735 IC 3-CH PROTECTOR ADG466BR SO8 Tripple Channel Protector ADG466BR SO8. DATE CODE TO BE LESS THAN 48 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE	100	NO	100	30.SEP.2023
	ADG467BRS - ANALOG DEVICES BV				
258	DV0692504095 IC SW BUCK REG 4.5-28VIN 0.8-25VOUT SO-8 "IC SW BUCK REG 4.5-28VIN 3A 0.8-25VOUT SO-8_PWRPAD DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE. BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE."		NO	20	30.SEP.2023
	TPS54336ADDA - TEXAS INSTRUMENTS				
259	DV0692510303 IC LDO 150mA 1.0 VOUT SOT23-5 SMD "OEM PACKAGING ONLY. DATE CODE TO BE LESS	24	NO	24	30.SEP.2023

For and On behalf of BHEL.

Page 62 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

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To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,, BANGALORE - 560026 Karnataka India (for all correspondence)
Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	THAN 24 MONTHS FROM INVOICE				
	DATE.BHEL'S WRITTEN APPROVAL IS REQUIRED IN				
	CASE OF ANY DEVIATION FROM				
	THE ABOVE." Tape and Reel only Loose packets and boxes				
	not acceptable MIC5317-1.0YM5-TR - MICROCHIP TECHNOLOGY LTD				
	MIC5317-1.01M3-TK - MICROCHIP TECHNOLOGY LTD				
	ED7470133941 MDL FILTER FN660-20/06	69	NO	69	30.SEP.2023
260	MDL FILTER FN660-20/06	00	110		30.0L1 .2023
	1.221 121 11 1000 2 0,00				
	ABB REFERENCE: HIER457910P1				
	FN660-20/06 - SCHAFFNER EMC PTE LTD				
	DRW PROP_REF:SAF.2-09/11/06 00				
	EN7467001800 IC LIN VOLT REG POS FIX 5V MC7805ACT	200	NO	200	30.SEP.2023
261	IC LIN VOL REG. 5V				
	1A, 2%, TO-220				
	MC7805ACT				
	MC7805ACTG - ON SEMI CONDUCTOR				
	MC7805ACT - ON SEMI CONDUCTOR LM7805ACT - ON SEMI CONDUCTOR				
		275	NO.	275	20.050.000
262	EN7467004923 IC LIN VOLT REG POS ADJ LM723CD IC LIN VLTG.REG ADJ.	213	NO	275	30.SEP.2023
202	S0-14 SMD				
	LM723CD				
	LM723CD - SGS THOMSON MICROELECTRONICS				
	UA723CD - TEXAS INSTRUMENTS				
	EN7467011814 IC LIN OPAMP SINGLE OP07CS SOIC8 SMD	784	NO	784	30.SEP.2023
263	IC LIN OPAMP 8PIN SMD OP07CS				
	OEM PACKING ONLY				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE				
	BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE				
	OP07CS - ANALOG DEVICES BV				
	OPA177GS - TEXAS INSTRUMENTS				
	EN7467011830 IC LIN OPAMP SING UA741CD SMD	1,300	NO	1,300	30.SEP.2023
264	IC LIN OPAMP SO-8 UA741CD	1,000	110	1,000	00.021 .2020
	OEM PACKING ONLY				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				

For and On behalf of BHEL.

Page 63 OF 69



MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,, BANGALORE - 560026 Karnataka India (for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

Please submit your lowest quotation subject to our terms and conditions attached for the material mentioned below. The quotation must be enclosed in a sealed envelope / Fax superscribed with RFQ no.and due date, should reach us on or before the due date by 13.00 hours IST and will be opened on the same day at 13.30 hours at the venue mentioned above. PLEASE DROP THE OFFER IN THE BOX PROVIDED AT RECEPTION.

Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	IN CASE OF ANY DEVIATION FROM THE ABOVE				-
	LM741CM - NATIONAL SEMICONDUCTORS				
	UA741CD - SGS THOMSON MICROELECTRONICS				
	UA741CD - TEXAS INSTRUMENTS				
265	EN7467031998 IC LIN CONVERTER V-TO-I XTR110KU IC LIN SPL V/I CONVERTER 4-20MA SMD XTR110KU/BURR BROWN	170	NO	170	30.SEP.2023
	OEM PACKING ONLY DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE				
	XTR110KU - TEXAS INSTRUMENTS				
	DRW PROP_REF:BRR.3-08/29/06 00				
	EN7467055986 IC LIN AMPLIFIER ISOLATION ISO122U IC LIN, SMD SO-28 ISOLATION AMPLIFIER ISO122U/BURR BROWN	120	NO	120	30.SEP.2023
	OEM PACKING ONLY DATE CODE TO BE LESS THAN 24 MONTHS FROM INVOICE DATE BHEL'S WRITTEN APPROVAL IS REQUIRED IN CASE OF ANY DEVIATION FROM THE ABOVE ISO122U - TEXAS INSTRUMENTS DRW PROP_REF:BRR.4-08/29/06 00				
267	EN7467099622 IC LIN DC/DC CONVERTER 15V IC LIN DC-DC CNVRTR I/P:48V O/P:15V 1.3A TEN 20-4813WI TEN 20-4813WI - TRACO ELECTRONIC AG EC1SC13 - CINCON ELECTRONICS CO. LTD. UWR-15/1300-D48A - MURATA JTA2048S15 - XP POWER LIMITED	30	NO	30	30.SEP.2023
268	EN7467116950 IC MEM NMS EPROM 8K*8 2764 IC MEM EPROM 8K X 8 MBM27C64-25Z MBM27C64-25Z - FUJITSU COMPUTERS (SINGAPORE)	225	NO	225	30.SEP.2023
	NMC27C64Q-150 - NATIONAL SEMICONDUCTORS NMC27C64Q-200 - NATIONAL SEMICONDUCTORS M27C64A-15F1 - SGS THOMSON MICROELECTRONICS				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

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MYSORE ROAD,,
BANGALORE - 560026
Karnataka India

(for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR Phone : 08026989133

Fax :

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	EN7467121997 IC MEM MOS EEPROM 8K*8 2864 IC MEM EEPROM NMOS 250 NS 8K * 8 X2864AP-25 X28HC64P-12 - INTERSIL INC AT28C64B-15PU - ATMEL CORPORATION X28HC64PZ-12 - INTERSIL INC	185	NO	185	30.SEP.2023
270	EN7467141645 IC EPLD CMS 640 PRODUCT TERMS 7128 IC EPLD CMD 640 PRODUCT TERMS 7128 SMD Date-code to be made available along with the item EPM7128ELI84-20 - ALTERA CORPORATION	50	NO	50	30.SEP.2023
	EN7467203934 IC IF HCMS OCT BUFFER 74HCT241 IC IF OCTAL BUFFER LINE DRIVER PC74HCT241P 74HCT241N - PHILIPS SEMICONDUCTORS / NXP CD74HCT241E - TEXAS INSTRUMENTS	50	NO	50	30.SEP.2023
272	EN7467215835 IC IF ADC 12 BIT 574 IC IF ADC 12 BIT PDIP-28 AD574AJN AD574AJN - ANALOG DEVICES BV MX574AJN - MAXIM INTEGRATED PRODS INC HI3-574AJN-5Z - INTERSIL INC AD574AJNZ - ANALOG DEVICES BV	130	NO	130	30.SEP.2023
	EN7467215916 IC IF DATA ACQUISITION SYSTEM 7891 IC IF A/D CONVERTER AD7891AP-1 AD7891AP-1 - ANALOG DEVICES BV AD7891APZ-1 - ANALOG DEVICES BV	148	NO	148	30.SEP.2023
	EN7467220987 IC IF DAC 12 BIT 7545 IC IF D/A CONVERTOR 12 BIT AD7545BQ AD7545AKN - ANALOG DEVICES BV AD7545AKNZ - ANALOG DEVICES BV	320	NO	320	30.SEP.2023
	EN7467225938 IC IF CMOS HEX LEVEL-SHIFT SO-16 4050BD CD4050BD - TEXAS INSTRUMENTS MC14050BD - FREE SCALE SEMI CONDUCTOR	72	NO	72	30.SEP.2023
276	EN7467231873 IC DGTL HCMS DATA SELECTOR 74HCT251 IC IF 8 INPUT	190	NO	190	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

15.MAY.2023 Time: 13:00 HRS

RFQ DATE : 04.MAY.2023

VENUE : SUB ASSLY PUR

Due Date

To:

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MYSORE ROAD,, BANGALORE - 560026

Karnataka India

(for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR Phone : 08026989133

Fax :

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	MULTIPLEXER				
	PC74HCT251P				
	74HCT251N - PHILIPS SEMICONDUCTORS / NXP				
	CD74HCT251E - TEXAS INSTRUMENTS				
	EN7467231881 IC DGTL HCMS DATA SELECTOR 74HC251 SMD	300	NO	300	30.SEP.2023
277	IC IF 8 INPUT				
	MULTIPLEXER SMD				
	MC74HC251D				
	SN74HC251D - TEXAS INSTRUMENTS				
	MC74HC251D - ON SEMI CONDUCTOR				
	74HC251D - PHILIPS SEMICONDUCTORS / NXP				
	MM74HC251M - ON SEMI CONDUCTOR				
	EN7467510888 IC DGTL CMS 2 I/P AND GATE 4081B SMD	500	NO	500	30.SEP.2023
278	IC DGTL AND GATE 14 PIN SMD CMOS				
	MC14081BD				
	MC44004PDC ON CEMI CONDUCTOR				
	MC14081BDG - ON SEMI CONDUCTOR HEF4081BT - PHILIPS SEMICONDUCTORS / NXP				
		450	NO.	450	20 CED 2022
270	EN7467514883 IC DGTL CMS 2 I/P NAND GATE 4011B SMD IC DGTL NAND GATE 14 PIN SMD CMOS	450	NO	450	30.SEP.2023
219	MC14011BD				
	WEITOTIDD				
	OEM PACKING ONLY				
	DATE CODE TO BE LESS THAN 24 MONTHS FROM				
	INVOICE DATE				
	BHEL'S WRITTEN APPROVAL IS REQUIRED				
	IN CASE OF ANY DEVIATION FROM THE ABOVE				
	MC14011BDG - ON SEMI CONDUCTOR				
	HEF4011BT - PHILIPS SEMICONDUCTORS / NXP				
	CD4011BM - TEXAS INSTRUMENTS				
	CD4011BCM - ON SEMI CONDUCTOR				
	EN7467519923 IC DGTL HCMS 8 I/P OR/NOR GATE 74HC4078	250	NO	250	30.SEP.2023
280	IC DIGITAL 8 I/P				
	NOR-OR GATE				
	MC74HC4078N				
	SN74HC4078AN - TEXAS INSTRUMENTS				
	MC74HC4078N - ON SEMI CONDUCTOR				
	M74HC4078B1R - SGS THOMSON MICROELECTRONICS				
	MM74HC4078N - ON SEMI CONDUCTOR				
	EN7467522991 IC DGTL HCMS DUAL XNOR GATE 74HC7266	60	NO	60	30.SEP.2023
281	IC DGTL QUAD 2 I/P				
	EX-NOR GATE 14 PIN				

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED Electronics Division PB No. 2606, Mysore Road Bangalore - 560026 INDIA

RFQ NUMBER: CKGOT00029

Due Date 15.MAY.2023 Time: 13:00 HRS

RFQ DATE: 04.MAY.2023

VENUE : SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD,, BANGALORE - 560026 Karnataka India (for all correspondence)
Purchase Executive : CHANDRA KANT KUMAR

Phone: 08026989133

Fax :

E-mail: ckgupta@bhel.in

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For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED
Electronics Division
PB No. 2606, Mysore Road Bangalore - 560026
INDIA

RFQ NUMBER: CKGOT00029

RFO DATE:

04.MAY.2023

Due Date 15.MAY.2023 Time: 13:00 HRS

VENUE : SUB ASSLY PUR

То:

BHEL, Electronics Division (X563699)

MYSORE ROAD,, BANGALORE - 560026 Karnataka India (for all correspondence)

Purchase Executive : CHANDRA KANT KUMAR

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	M82C54A-2 - OKI SEMICONDUCTORS.				
287	EN7467632983 IC IF MOS PERIPHRL INTERFACE 9901 IC MP PROGRAMMABLE SYSTEM INTERFACE TMS9901JL ICS TO BE 100% INSPECTED FOR FUNCTION- ALITY. DEFECTIVE ICS TO BE REPLACED BY THE VENDOR. TMS9901JL - TEXAS INSTRUMENTS TMS9901NL - TEXAS INSTRUMENTS DRW PROP_REF:TEX.36-08/29/06 00	95	NO	95	30.SEP.2023
288	EN7467632991 IC MP PROGRAMMABLE INTERVAL TIMER 82C54 IC MP PROGRAMMABLE INTERVAL TIMER PROCESSA PROCES	90	NO	90	30.SEP.2023
289	EN7468047898 OPTOCOUPLER DUAL MCT6 DIP-8 DUAL PHOTOTRANSISTOR MCT6 MCT6 - VISHAY INTER TECHNOLOGY ASIA PTE. L MCT6 - ON SEMI CONDUCTOR Test Certificate	3,000	NO	3,000	30.SEP.2023
290	EN7470198962 PC/104 + 2 Ethernet + 24 DGTL I/O MERCATOR II 2X2 QUAD 10/100 ETHERNET + 24 GPIO MRC-424-XT REV A DATE CODE OF THE ITEM TO BE WITHIN 1 YR FROM INVOICE DATE. SUPPLIED ITEMS TO BE COVERED UNDER 2 YEARS WARRANTY FROM INVOICE DATE. OEM COC AND WARRANTY CERTIFICATE TO BE SUBMITTED WITH THE MATERIAL SUPPLY. MRC-424-XT - DIAMOND SYSTEMS CORPORATION	38	NO	38	30.SEP.2023
291	Test Certificate EN7470198970 PC 104 Compatible 96 DI/O FPGA I/O ,96 PIN DIGITAL I/O PC/104 MODULE GPIO-MM-21-XT REV B DATE CODE OF THE ITEM TO BE WITHIN 1 YR	10	NO	10	30.SEP.2023

For and On behalf of BHEL.

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MMI:PU:RF:003

BHARAT HEAVY ELECTRICALS LIMITED **Electronics Division** PB No. 2606, Mysore Road Bangalore - 560026 **INDIA**

RFQ NUMBER: CKGOT00029

RFO DATE:

04.MAY.2023

15.MAY.2023 Time: 13:00 HRS

Due Date

VENUE · SUB ASSLY PUR

To:

BHEL, Electronics Division (X563699)

MYSORE ROAD.. BANGALORE - 560026

Karnataka India

(for all correspondence) Purchase Executive: CHANDRA KANT KUMAR

Phone: 08026989133

Fax:

E-mail: ckgupta@bhel.in

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Sl No.	Description	Qty	Unit	Delivery qty	Delivery Date
	FROM INVOICE DATE.				
	SUPPLIED ITEMS TO BE COVERED UNDER 2 YEARS				
	WARRANTY FROM INVOICE DATE.				
	OEM COC AND WARRANTY CERTIFICATE TO BE				
	SUBMITTED WITH THE MATERIAL SUPPLY.				
	GPIO-MM-21-XT - DIAMOND SYSTEMS CORPORATION				
	Test Certificate				

Total Number of Items -

RFQ sent to :(X563699, BHEL, Electronics Division, BANGALORE, IN)

Please note that the tender will be opened in the presence of the bidders or his authorised representatives (maximum two per organisation) who choose to be present with authorisation letters. Refer annexure for the terms and conditions.

Preference will be given to vendors who accepts our standard payment terms i.e.100% payment - 30 days after receipt of material at our works subject to acceptance. Please specify Terms of delivery, Excise duty, sales tax, Ex-BHEL, Ex-works surcharge, Insurance, P&F, Freight and other taxes very clearly .

For evaluation, exchange rate(TT selling rate of SBI) as on scheduled date of tender opening (Part-I bid incase of two part bid) shall be considered.

The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com

- i). This is only RFQ not an order.
- ii). In all correspondence quote RFQ No. & due date.
- iii). In Quotation BHEL material code / RFQ Sl. No. should be mentioned clearly.
- iv). Quotation Envelope / Fax not superscribed with RFO No. and due date is liable for rejection.
- v). Quotation should remain valid for a minimum peiod of 90 days from due date.
- vi). In case of non-receipt of Quotation or regret letter for 3 consecutive RFQs you are liable to be removed from our vendors list.
- vii). All Prices should be written in words and numbers.
- viii). Excise Chapter Heading should be mentioned for all items where VAT is applicable .

For and On behalf of BHEL.

Page 69 OF 69

On Bidder Letter Head

Date:	
To,	
M/s Bharat Heavy Electricals Ltd. Electronics Division, Mysore Road,' Bangalore – 560026	
Sub: Model Clause / Certificate as per clause 9 (a) of Revised Public Procurement (Preference to India Order, 2017 of DPIIT dated 13.06.2020.	Make in
Ref: BHEL Tender / RFQ / NIT Number	
I	the time ent for
For M/s	
Authorized Signatory (with company seal & Name)	

On Bidder Letter Head

	Date:
То,	
M/s Bharat Heavy Electricals Ltd. Electronics Division, Mysore Road,' Bangalore – 560026	
Sub: Model Clause / Certificate as per Annex-III (Tenders) of Restrictions Under R General Financial Rules (GFRs) 2017, Dated 23.07.2020.	ule 144 (xi) of the
Ref: BHEL Tender / RFQ / NIT Number	
I	ame] have read the nares a land border with or Name & address] is t the other one], has all requirements in this
For M/s	
Authorized Signatory (with company seal & Name)	

COMMERCIAL TERMS & CONDITIONS					
	To be mandatory filled in YES/No or Not applicable (NA) (YES/No/NA) Remarks (if, any)				
1	Payment terms: (For any deviation Loading factor will be applicable above the quoted rate)				
1.A	For Quote in INR: BHEL standard payment terms is 100% within 45 days credit:				
1.B	For Quote in other than INR: BHEL standard payment terms is 100% against sight draft with 45 days credit				
2	Delivery Terms:				
2.A	For Quote in INR:Delivery Terms: BHEL Standard delivery is BHEL DDL-EDN BANGALORE:				
2.B	For Quote in other than INR:(Vendor to mention INCO Terms like FCA/EX-Works)				
3	Penalty terms for Delayed Delivery: 10% loading factor for not accepting the penalty.				
3.1	BHEL standard Penalty Terms is accepted for delayed delivery				
4	Offer validity: 90 Days				
5	Delivery lead time (In Weeks)				
6	GFR Certificate attached				
7	MII Certificate attached				
8	Other terms & Conditions as per NIT				
9	Mention the Government E-Marketplace (GeM) Seller ID (Mandatory for placing PO worth Rs. 25 Lakhs & above) Applicable for only INDIAN VENDORS				
10	PO Delivery:- As per Vendor Quoted Delivery or RFQ Indicated Delivery whichever is later.				

Note-1: REVERSE AUCTION:- REVERSE AUCTION IS NOT APPLICABLE FOR THIS TENDER.

Note-2: MII certificate: For this tender, Non-Local supplier whose local content is less than 20% are not eligible to participate.

Only Class-I Local supplier and Class-II local supplier are eligible to bid for this RFQ.

Purchase preference for MII will be given to class –I Local supplier.

Please refer GOI circular No. P-45021/2/2017-PP (BE-II) dtd. 16/09/2020 for detail of purchase preference and eligibility for participating in this RFQ.

Annexure-1

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and
along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART
<u>Preamble</u>
The Principal intends to award, under laid-down organizational procedures, contract/s for
. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s)

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
- 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
- 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions:

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and will await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to

demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 - Equal treatment of all Bidders/ Contractors / Sub-contractors

- 6.1 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors. In case of sub-contracting, the Principal contractor shall be responsible for the adoption of IP by his sub-contractors and shall continue to remain responsible for any default by his sub-contractors:
- 6.2 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 - Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality in line with Non- disclosure agreement.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

- 8.5 The role of IEMs is advisory, would not be legally binding and it is restricted to resolving issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter should be examined by the full panel of IEMs jointly as far as possible, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to CMD, BHEL, at the earliest. They may also send their report directly to the CVO and the Commission, in case of suspicion of serious irregularities requiring legal/ administrative action. IEMs will tender their advice on the complaints within 10 days as far as possible.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.9 IEM should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the organization should be looked into by the CVO of the concerned organisation.
- 8.10 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code/ Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.12 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Pact shall be operative from the date IP is signed by both the parties till the final completion of contract for successful bidder and for all other bidders 6 months after the contract has been awarded. Issues like warranty / guarantee etc. should be outside the purview of IEMs.
- 9.2 If any claim is made/ lodged during currency of IP, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.

- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

For & On behalf of the Principal	For & On behalf of the Bidder/
	Contractor
(Office Seal)	(Office Seal)
Place	
Date	
Witness:	Witness:
(Name & Address)	(Name & Address)



ಭಾರತ್ ಹೆವಿ ಎಲೆಕ್ಟ್ರಿಕಲ್ಸ್ ಲಿಮಿಟೆಡ್ भारत हेवी इलेक्ट्रिकल्स लिमिटेड

Bharat Heavy Electricals Ltd.(A Government of India undertaking)
Electronics Division PB 2606, Mysore Road Bangalore, 560026 INDIA

SPECIAL CONDITIONS OF CONTRACT

This "Special Conditions of Contract" will form an integral part of the contract as and when the RFQ culminates into a Purchase Order / Contract. Integrity commitment will be applicable in the tender process and execution of contracts.

Independent External Monitor (IEM) Name: Shri Otem Dai IAS (Retd.) / Shri Bishwamitra Pandey, IRAS (Retd.)/ Shri Mukesh Mittal, IRS (Retd)

PLEASE FIND ENCLOSED A COPY OF INTEGRITY PACT AGREEMENT. THE SAME HAS TO BE FILLED AND SIGNED BY AUTHORIZED SIGNATORY WHO SIGNS THE BID AND TO BE SUBMITTED ALONG WITH TECHNO-COMMERCIAL (PART-1 BID) OFFER. ONLY THOSE VENDOR/BIDDERS WHO HAVE ENTERED INTO SUCH AN IP WITH BHEL WOULD BE COMPETENT TO PARTICIPATE IN THE BIDDING. IN OTHER WORDS, ENTERING INTO THIS PACT WOULD BE PRELIMINARY QUALIFICATION.

Clause on IP in the tender

Integrity Pact (IP)

(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

SI	IEM	Email
1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in
2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in
3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in

- (b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.
- (c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.

Note:

No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below:

Details of contact person(s):

Name	; Chandrakant	Name :Nirmala Simon	
Department	: SA-MM	Department : SA-MM	
Address:	: BHEL EDN, NEB	Address: : BHEL EDN, NEB	
	6 th Floor Mysore Road		6 th Floor Mysore Road
	Bangalore 560026		Bangalore 560026
Phone : 080-26989133/8477003300		Phone: +91 8026998435/9972060309	
Email : 0	kgupta@bhel.in	Email : n	irmala.simon@bhel.in
Fax: +9	91 80 26989228	Fax: +9	1 80 26989228

RFQ TERMS & CONDITION

Following points are to be noted before submitting your offer.

- 1- Important Notice: Request you to go through terms and conditions before submitting quote.
 a) INSTRUCTIONS TO BIDDERS/SELLERS (**Doc No :BHEL:EDN:ITB-SHOP: Rev 03**) available at http://edn.bhel.com (RFQ-PO Terms & Conditions)
- b) GENERAL CONDITIONS OF CONTRACT FOR PURCHASE (**Doc no: BHEL: EDN: GCC-SHOP: Rev 01**) available at http://edn.bhel.com (RFQ-PO Terms & Conditions)
- c) Any other specific Terms and Conditions mentioned.
- d) FOR THIS PROCUREMENT, PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), Order 2017 dated 15.06.2017, 28.05.2018 and revision dated 16th September 2020 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO 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. https://dipp.gov.in/public-procurements

e) **FOR THIS PROCUREMENT (GFR)**, Restrictions under Rule 144(xi) of the General Financial Rules (GFRs), 2017- Dept. of Expenditure OM No.6/18/2019-PPD dated 23rd July, 2020 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT but before finalization of contract/PO against this NIT.

https://www.mea.gov.in/

f) PURCHASE PREFERENCE FOR MSE VENDORS:

MSE vendors quoting within a price band of L1 + 15% shall be allowed to supply up to 25% of the requirement against this tender provided: -

- i. The MSE vendor matches the L1 price.
- ii. L1 price is from a non MSE vendor.
- iii. L1 price will be offered to the vendor nearest to L1 in terms of price ranking (L2 nearest to L1). In case of non-acceptance by the MSE vendor (L2), next ranking MSE vendor will be offered who is within the L1 + 15% band (if L3 is also within 15% band).
- iv. 3% of the 25% will be earmarked for women owned MSEs.
- v. 25% of the 25% (i.e., 6.25% of the total enquired quantity) will be earmarked for SC/ST owned MSE firms provided conditions as mentioned in (i) & (ii) are fulfilled.
- vi. In case where no SC/ST category firms are meeting the conditions mentioned in (i) and (ii) or have not participated in the tender, the 6.25% of earmarked quantity for SC/ST owned MSE firms will be distributed among the other eligible MSE vendors who have participated in the tender.
- vii. In case after the bid opening it is seen that no MSE has become L1, then depending on the nature of the item, if it is not possible to split the tendered items/quantities on account of reasons like customer contract requirements of supplying one make for a given project or technical reasons like the tendered item being a system etc., then BHEL would not counter offer the L1 prices even though there may be MSE bidders within the +15% band of L1. Such information that tendered quantity will not be split shall be indicated in the RFQ.

- 2- Bidders should mention GSTN number of the place of supply and HSN (Harmonized System of Nomenclature)/SAC (Services Accounting Code) number in the offer. In case both supply and service are involved, GSTN no of the place of supply for services shall also be mentioned separately in the offer if different.
- 3- This is TWO PART BID tender. BIDDERS are requested to send "Techno Commercial Bid" AND "Price BID" separately. For more details, please refer point 2.b in attached RFQ Terms and conditions document
- 4- Penalty for delayed delivery is applicable for this Enquiry. If it is not mentioned explicitly it will be assumed as acceptance.
- 5- Offers with ADVANCE PAYMENT are liable for rejection
- 6- If only "Sight Draft" is mentioned it will be considered as "Sight Draft with 45 days"
- 7- In case of not interested in submitting quotation, please send the regret letter which is essential for our records.
- 8- Please indicate complete part number in your quotation and make, else your quotation might be rejected.
- 9- Please quote for our RFQ quantity and for MOQ (if any). Offers with high MOQ may not be accepted.
- 10-Material has to be supplied in manufacturer's pack in sealed condition (Refurbished/ pulled out parts are not accepted).
- 11-Supplier should quote online. Quotation received in hardcopy will not be considered.
- 12- If we find different prices for the same Mat Code (after opening Price BID), we will consider the Lowest price only (out of all different prices) for the entire quantity.

------END------

Tender Terms - Conflict of interest

"A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:

- a) they have controlling partner (s) in common; or
- b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or
- c) they have the same legal representative/agent for purposes of this bid; or
- d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder, · or
- e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from. one bidding manufacturer in more than one bid; or
- f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:
- 1. The principal manufacturer directly or through one Indian agent on his behalf; and
- 2. Indian/foreign agent on behalf of only one principal, or
- g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, \cdot or
- h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/common business/management units in same/similar line of business. "



PRE QUALIFICATION CRITERIA

PQC: 406-OT-5 Rev 02

PAGE 01 OF 01

	SI. No.	CRITERIA	DOCUMENT REQUIRED	COMPLIED
COPVRIGHT AND CONFIDENTIAL The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in anyway detrimental to the interest of the company.	1	The bidder shall be Original Equipment Manufactu (OEM) / Authorised Distributor of OEM / General dealer. General Dealer shall procure the item dire either from Authorized Distributor or OEM		
	2	Documents to be submitted along with technical B	iid	
	2.1	By OEM		
	2.2	By Authorised Distributor	Proof of Authorisation duly signed by OEM	
	2.3	By General dealers:	Compliance certificate as per Annexure 1(on vendors letterhead)	
	3	Documents to be submitted during material supply	y:	
	3.1	Ву ОЕМ	Certificate of Conformance	Yes/No/NA
	3.2	By Authorised Distributor	OEM/ Distributor COC	Yes/No/NA
	3.3	By General dealers:	OEM/ Authorised Distributor COC.	Yes/No/NA
		 Technical Requirements: Offer shall be for new item only and not for an used or refurbished material The Vendor shall offer specified part number a make as per RFQ (Request For Quotation) OR exact drop in equivalent to the specified part. In case of equivalent part, vendor to submit detailed specification sheet / data sheet indicating complete compliance to the enquire part number. If there are any queries regarding specification is supplier's responsibility to get the same clarified from the purchaser before submitting the offer. Ior shall submit compliance to the applicable NO/NA along with Technical bid. 	ed n, it clauses of this PQC by tick	ing
	#3	APPROVED BY Sudha Iyengar AGM/SAE	s South type,	
		PREPARED BY GIRISH T J AGM/SAE	Lun, ISSUED	DATE 20/04/2023

Annexure 1 (for PQC 406 –OT-5 rev 02)

This is to certify that items to be supplied against from either OEM or their authorised Distributor.	the Tender will be procured
The Offer is for new items only and not for any us	sed or refurbished material.
We also certify that in case of rejection during pro- replacement at BHEL EDN and failure analysis at o carried out within 2 weeks or mutually agreed pe	our own cost in case of quality issues. This will be
Place	Signature
Date	office Seal