



REQUIREMENT OF GASKETS

The Heavy Electricals Equipment Plant (HEEP) located in Haridwar, India is one of the major manufacturing plants of Bharat Heavy Electricals Ltd. The core business of HEEP includes design and manufacture of large steam and gas turbines, turbo generators, Defense Items and so on.

Details of items details as below:

SI. NO.	MAT CODE	ITEM DISCREPTION	Quantity (Nos)	Delivery (Days)
1	W97015701170	GASKET SIZE: 12761929903	9	45
2	W97015701367	GASKET SIZE: P/N 127620127	6	45
3	W97015701375	GASKET SIZE: P/N 127620133	16	45
4	W97015701383	GASKET SIZE: P/N 127620143	6	45
5	W97015701413	GASKET SIZE: D/N 137609503	12	45
6	W97032301070	GASKET SIZE: P/N 127618464	15	45
7	W97032301290	GASKET SIZE: P/N 157618420	4	45
8	W97015701154	GASKET 'FAIRPRENE 22-002' OF DUPONT N.STD: FAIRPRENE MAKE SIZE: 12761918101	2	45

1. ALL VENDORS TO PROVIDE POINT WISE REPLY/CONFIRMATION ALONG WITH RELEVANT SUPPORTING DOCUMENTS TO EACH AND EVERY POINT OF PRE-QUALIFICATION REQUIREMENT/PQR FOR ALL ENQUIRY ITEMS. NONCOMPLIANCE OF THESE MAY LEAD TO REJECTION OF OFFER AS THESE ARE ESSENTIAL CONDITION FOR PARTICIPATING IN TENDER ENQUIRY
2. KINDLY UPLOAD/ATTACH THE SPECIFICATION DETAILS/ CATALOGUE OF OFFERED ITEMS.
3. KINDLY ARRANGE TO **SUBMIT TECHNO-COMMERCIAL CHECKLIST** ALONG WITH YOUR OFFER.
4. CURE DATE SHOULD NOT BE EARLIER THAN 4 MONTHS FROM DATE OF RECEIPT AT BHEL HARIDWAR.
5. VENDOR TO CONFIRM TO PROVIDE MATERIAL AND DIMENSIONAL TEST CERTIFICATES FOR GASKETS AS PER ENQUIRY CHECKLIST ALONG WITH MATERIAL DISPATCH.
6. VENDOR TO CONFIRM TO MENTION PO NUMBER, ITEM DESCRIPTION, MANUFACTURERS NAME, BATCH NUMBER, MILITARY SPECIFICATION NUMBER CURE DATE & SHELF LIFE IN T.C. AS WELL AS ON ITEMS PACKING.
7. VENDOR TO CONFIRM TO PROVIDE DOCUMENTS KEEP PROPER CORRELATION WITH PO ITEMS AND THEIR QUANTITY.
8. VENDOR TO CONFIRM TO PROVIDE CERTIFICATE OF CONFORMANCE ALONG WITH MATERIAL DISPATCH.
9. VENDOR TO CONFIRM TO SUPPLY THE MATERIAL AS PER THE ATTACHED PACKING INSTRUCTIONS.

QUALIFYING CONDITIONS for GASKET

Sl. no.	PQR Requirement	Action	Vendor Response (Yes / No)
1.	Only those manufacturers or authorized dealer/distributor of Original Equipment Manufacturers, should quote who can manufacture or supply SYNTHETIC RUBBER GASKET as per following specification i) ASTM D2000/ MIL-STD-417 ii) MIL-C-8068	Vendor / Dealer to confirm	
2.	Vendor has understood the requirements as per BHEL technical specification sheet	Vendor to confirm	
3.	Vendor can provide Material Test Certificate (MTC) from NABL certified / Govt. approved Lab / OEM Certified Lab only.	Vendor to confirm	
4.	Vendor to provide Certificate of Conformance.	Vendor to confirm	

AGM/DPE

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

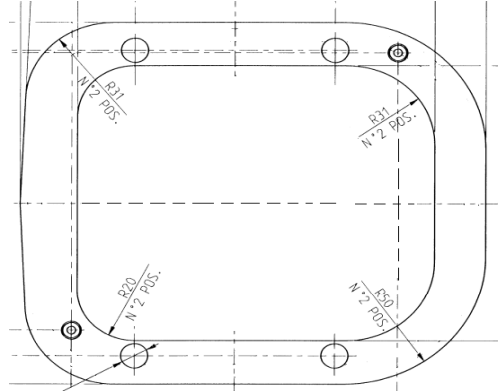
ITEM CODE W97015701170
ITEM NAME O-RING
ITEM PART NO P/N 127619299
INTERNATIONAL EQUIVALENT -



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	O-RING DIA	8	MM	Input Value →	
2	INNER DIA OF O-RING	547	MM	Input Value →	
3	MATERIAL	SYNTHETIC RUBBER	-	To confirm →	
4	MATERIAL CONFORMING TO SPEC	MIL STD 417 / ASTM D2000	-	Specify Spec. →	
5	COLOUR	BLACK	-	To confirm →	
6	MATERIAL PROPERTIES (to be reported in MTC)	SC610-A1 B1 C1 E3 F1 Z (Equivalent grade as per ASTM D2000 : M3 BC610-A14 B14 C12 EO34 F17-Z)	-	To confirm →	
6.1	SC610 (BC610)	MEDIUM VOLUME SWELL AND OIL RESISTANT (Chloroprene polymers (neoprene), cm)	-	To confirm →	
6.1.1	durometer hardness number	60 +/-5	-	To confirm →	
6.1.2	tensile strength, min.	10	MPA	To confirm →	
6.1.3	elongation, min.	350	%	To confirm →	
6.2	A14	RESISTANT TO HEAT AGING 70 HOURS AT 100 DEG C	-	To confirm →	
6.2.1	Hardness change (max)	15	%	Input Value →	
6.2.2	Tensile change (max)	-15	%	Input Value →	
6.2.3	Elongation change (max)	-40	%	Input Value →	
6.3	B14	COMPRESSION SET AFTER 22 HOURS AT 150 DEG C	-	To confirm →	
6.3.1	Change (max)	35	%	Input Value →	
6.4	C12	RESISTANCE TO OZONE	-	To confirm →	
6.4.1	Change (max)	100	%	Input Value →	
6.5	EO34	RESISTANT TO OIL AGING, 70 HOURS AT 100 DEG C , ASTM OIL NO. IRM 903 (TEST D 471)		To confirm →	
6.5.1	Tensile change (max)	-60	%	Input Value →	
6.5.2	Elongation change (max)	-50	%	Input Value →	
6.5.3	Volume change (max)	+100	%	Input Value →	
6.6	F17	LOW TEMERATURE BRITTLINESS AT -40 DEG C FOR 3 MINUTES (TEST D 2137)	-	To confirm →	
6.7	Z	96 HR SEA WATER RESISRANCE @ 80 DEG	-	To confirm →	
6.7.1	hardness change after dipping	+/-10 POINT	%	Input Value →	
6.7.2	change in wt/volume	+5% -0 %	%	Input Value →	
7	SHELF LIFE	Minimum 10 years	-	To confirm →	
8	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	-	To confirm →	
9	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 6.1 to 6.7 above.	Y	Confirm to supply →	
10	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply →	
11	VENDOR REMARKS				

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

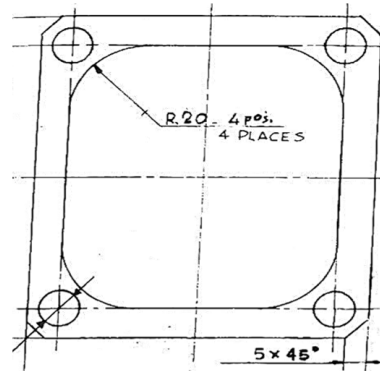
ITEM CODE W97015701367
 ITEM NAME GASKET
 ITEM PART NO P/N 127620127



SN.	PARAMETERS	VALUES	UNIT	VENDOR RESPONSE
1	SIZE & DIMENSIONS	AS PER DRAWING	-	
2	MATERIAL	GUARNITAL OR RUBBER COVERED NYLON CLOTH AS PER MIL-C-8068 TYPE-II	-	
2.1	BASE CLOTH	CURED	-	
2.2	BASE CLOTH THICKNESS	0.013 +/- 0.002	INCH	
2.3	BREAKING STRENGTH (GRAB METHOD), MIN.	300	POUND	
2.4	TEAR STRENGTH (TONGUE METHOD), MIN.	20	POUND	
2.5	THREAD COUNT	90	THREADS/INCH	
3	RUBBER COATING: PROPERTIES			
3.1	HARDNESS , SHORE A	60 +/-5	POINTS	
3.2	TENSILE STRENGTH, MIN.	1500	PSI	
3.3	ELONGATION, MIN.	400	%	
4	RUBBER COATING AFTER AGEING AT 212 DEG. F FOR 70+/-2 HOURS			
4.1	HARDNESS , SHORE A	+/- 15	POINTS	
4.2	TENSILE STRENGTH, MAX.	-15	%	
4.3	ELONGATION, MAX.	-60	%	
5	RUBBER COATING CLOTH: PHYSICAL PROPERTIES			
5.1	GAGE	0.025 +/- 0.003	INCH	
5.2	MULLEN BURST STRENGTH	500	POINTS	
5.3	MULLEN BURST STRENGTH AFTER AIR AGEING	500	POINTS	
5.4	MULLEN BURST STRENGTH AFTER AGEING IN FLUID	500	POINTS	
6	LOW TEMPERATURE FLEXIBILITY			
7	PERMEABILITY	2	FLUD OUNCE / SQ.INCH	
8	Shelf Life	minimum 10 years	To confirm	
9	DOCUMENTATION	MATERIAL TEST Certificate (MTC) to include test report containing point 2 to 7	To confirm	
		Conformance/ Compliance certificate.	To confirm	
10	VENDOR REMARKS			

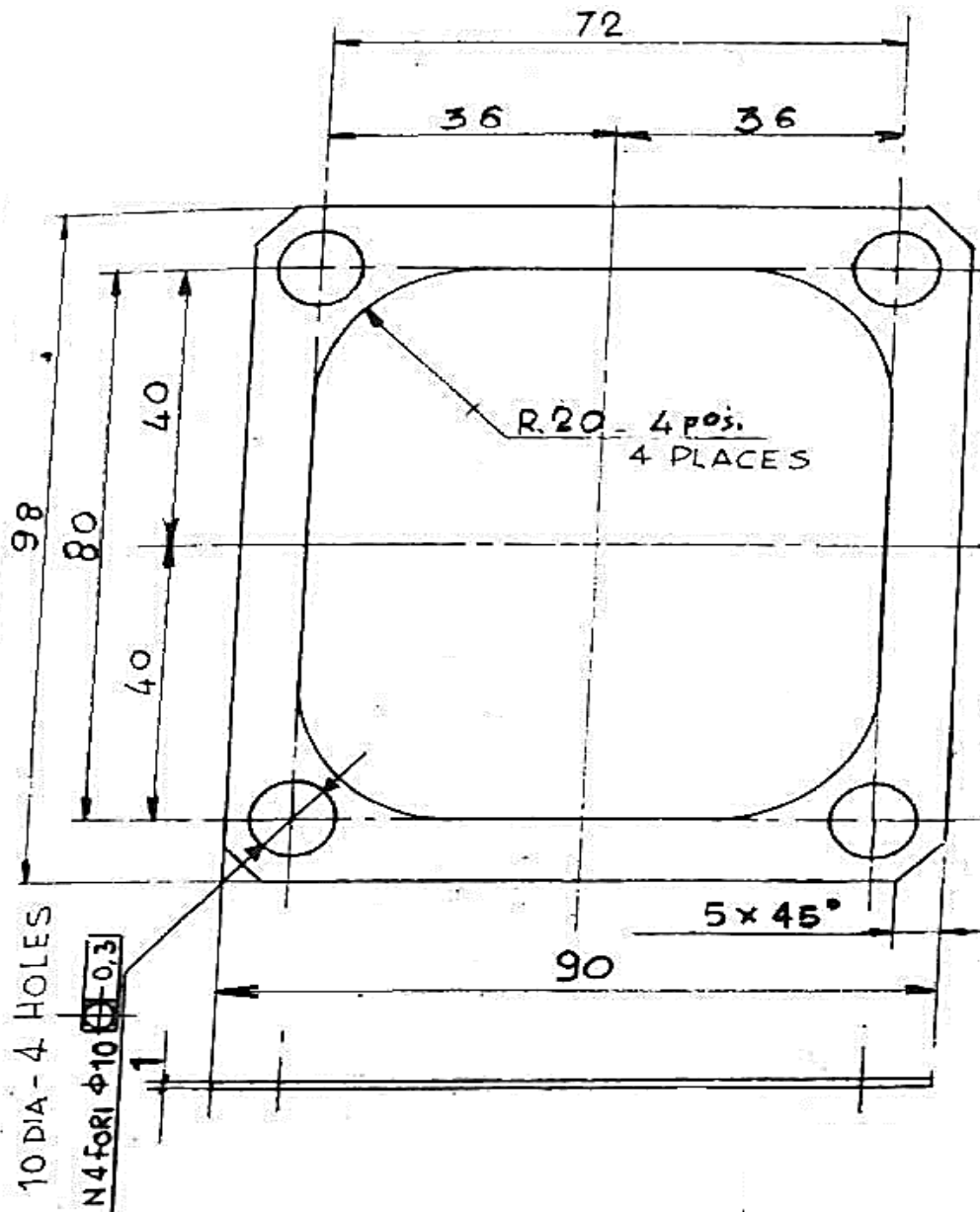
TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97015701375
ITEM NAME GASKET
ITEM PART NO P/N 127620133



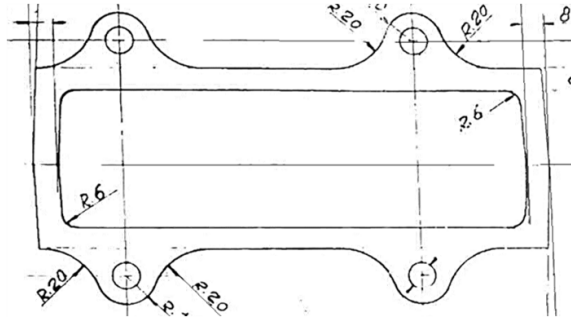
SN.	PARAMETERS	VALUES	UNIT	VENDOR RESPONSE
1	SIZE & DIMENSIONS	AS PER DRAWING	-	
2	MATERIAL	GUARNITAL OR RUBBER COVERED NYLON CLOTH AS PER MIL-C-8068 TYPE-II	-	
2.1	BASE CLOTH	CURED	-	
2.2	BASE CLOTH THICKNESS	0.013 +/- 0.002	INCH	
2.3	BREAKING STRENGTH (GRAB METHOD), MIN.	300	POUND	
2.4	TEAR STRENGTH (TONGUE METHOD), MIN.	20	POUND	
2.5	THREAD COUNT	90	THREADS/INCH	
3	RUBBER COATING: PROPERTIES			
3.1	HARDNESS, SHORE A	60 +/-5	POINTS	
3.2	TENSILE STRENGTH, MIN.	1500	PSI	
3.3	ELONGATION, MIN.	400	%	
4	RUBBER COATING AFTER AGEING AT 212 DEG. F FOR 70+/-2 HOURS			
4.1	HARDNESS, SHORE A	+/- 15	POINTS	
4.2	TENSILE STRENGTH, MAX.	-15	%	
4.3	ELONGATION, MAX.	-60	%	
5	RUBBER COATING CLOTH: PHYSICAL PROPERTIES			
5.1	GAGE	0.025 +/- 0.003	INCH	
5.2	MULLEN BURST STRENGTH	500	POINTS	
5.3	MULLEN BURST STRENGTH AFTER AIR AGEING	500	POINTS	
5.4	MULLEN BURST STRENGTH AFTER AGEING IN FLUID	500	POINTS	
6	LOW TEMPERATURE FLEXIBILITY	FLEXIBLE		
7	PERMEABILITY	2	FLUD OUNCE / SQ.INCH	
8	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	To confirm	
9	Shelf Life	minimum 10 years	To confirm	
9	DOCUMENTATION	MATERIAL TEST Certificate (MTC) to include test report containing point 2 to 7	To confirm	
		Conformance/ Compliance certificate.	To confirm	
10	VENDOR REMARKS			

DRAWING FOR P/N 127620133



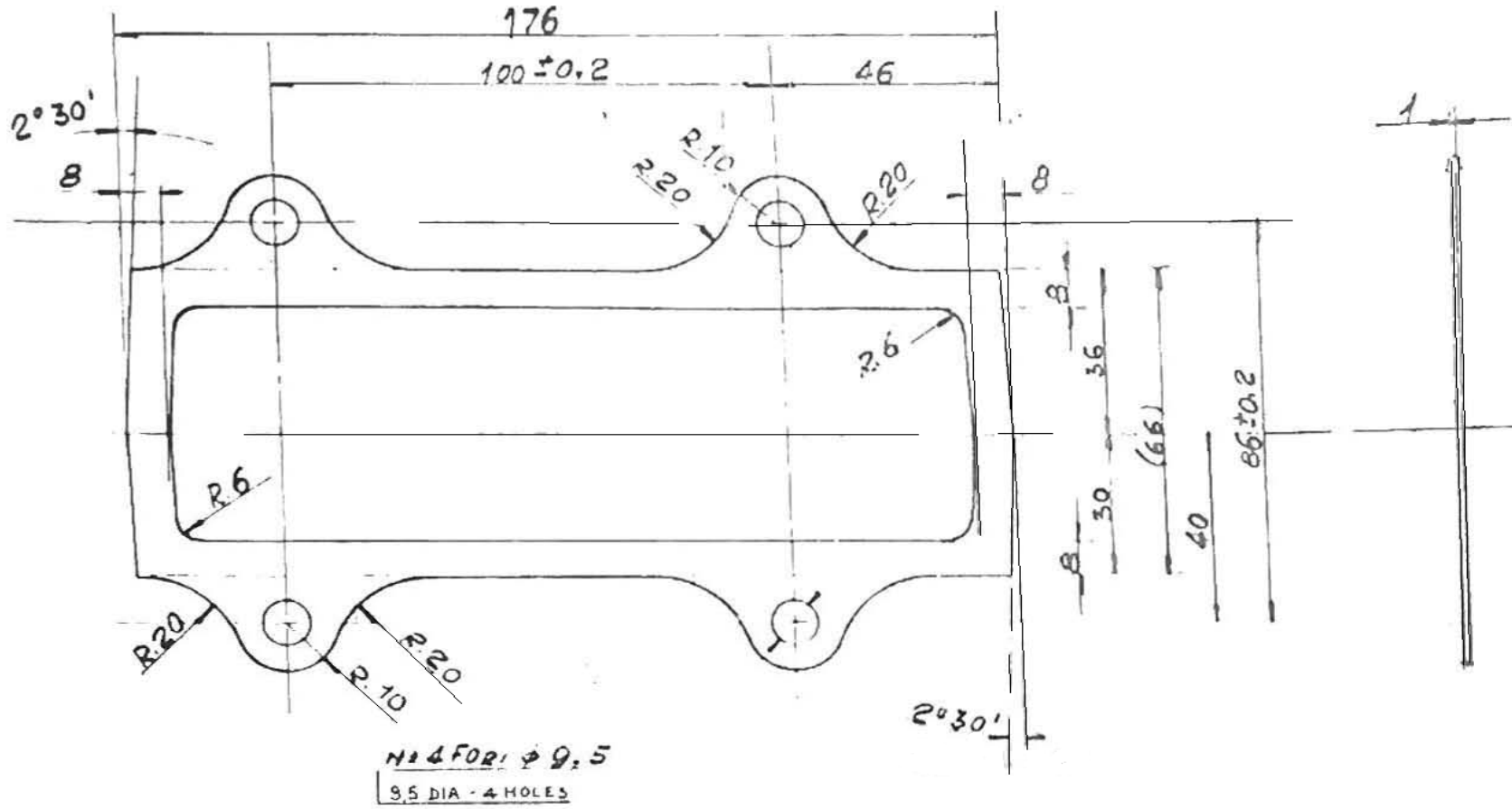
TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97015701383
 ITEM NAME GASKET
 ITEM PART NO P/N 127620143



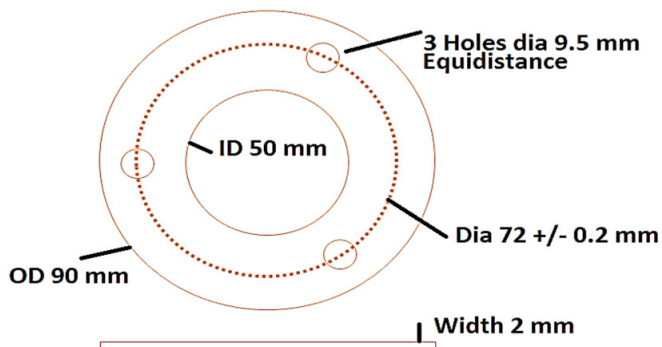
SN.	PARAMETERS	VALUES	UNIT	VENDOR RESPONSE
1	SIZE & DIMENSIONS	AS PER DRAWING	-	
2	MATERIAL	GUARNITAL OR RUBBER COVERED NYLON CLOTH AS PER MIL-C-8068 TYPE-II	-	
2.1	BASE CLOTH	CURED	-	
2.2	BASE CLOTH THICKNESS	0.013 +/- 0.002	INCH	
2.3	BREAKING STRENGTH (GRAB METHOD), MIN.	300	POUND	
2.4	TEAR STRENGTH (TONGUE METHOD), MIN.	20	POUND	
2.5	THREAD COUNT	90	THREADS/INCH	
3	RUBBER COATING: PROPERTIES			
3.1	HARDNESS, SHORE A	60 +/-5	POINTS	
3.2	TENSILE STRENGTH, MIN.	1500	PSI	
3.3	ELONGATION, MIN.	400	%	
4	RUBBER COATING AFTER AGEING AT 212 DEG. F FOR 70+/-2 HOURS			
4.1	HARDNESS, SHORE A	+/- 15	POINTS	
4.2	TENSILE STRENGTH, MAX.	-15	%	
4.3	ELONGATION, MAX.	-60	%	
5	RUBBER COATING CLOTH: PHYSICAL PROPERTIES			
5.1	GAGE	0.025 +/- 0.003	INCH	
5.2	MULLEN BURST STRENGTH	500	POINTS	
5.3	MULLEN BURST STRENGTH AFTER AIR AGEING	500	POINTS	
5.4	MULLEN BURST STRENGTH AFTER AGEING IN FLUID	500	POINTS	
6	LOW TEMPERATURE FLEXIBILITY	FLEXIBLE		
7	PERMEABILITY	2	FLUD OUNCE / SQ.INCH	
8	Shelf Life	minimum 10 years	To confirm	
9	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	To confirm	
10	DOCUMENTATION	MATERIAL TEST Certificate (MTC) to include test report containing point 2 to 7	To confirm	
11		Conformance/ Compliance certificate.	To confirm	
12	VENDOR REMARKS			

DRAWING FOR P/N 127620143



**TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR**

ITEM CODE W97015701413
ITEM NAME GASKET
ITEM PART NO P/N 137609503



SN.	PARAMETERS	VALUES	UNIT	VENDOR RESPONSE
1	SIZE	AS PER DRAWING	-	
2	MATERIAL	RUBBER	as per MIL-STD-417	
2.1	TYPE	SYNTHETIC	-	
2.2	DUROMETER HARDNESS	60 +/- 5	-	
2.3	TENSILE STRENGTH	7	MPA	
2.4	ULTIMATE ELONGATION (MIN.)	300	%	
2.5	Compression set after 22hr at 70 deg C (max)	50	%	
3	RESISTANT TO HEAT AGING 70			
3.1	Hardness change (max)	15	%	
3.2	Tensile change (max)	-15	%	
3.3	Elongation change (max)	-35	%	
4	COMPRESSION SET AFTER 22 HOURS AT 70 DEG C:	35	%	
5	RESISTANT TO OZONE AT 50 pphm AT 38 DEG C FOR 7 DAYS	To be examined under seven point magnifier as per MIL-STD-417	NO CRACK	
6	LOW TEMERATURE BRITTLENESS AT -40 DEG C		NO CRACK	
7	Resistance to sea water for 96 hrs. at 80 deg.C			
7.1	Hardness change after dipping	+/-10	points	
7.2	Change of weight or volume :	+/- 5	%	
8	Resistance to STAINING	TO CONFIRM	Y/N	
9	SHELF LIFE	Minimum 10 years	Y/N	
10	DOCUMENTATION	MATERIAL TEST Certificate (MTC) to include test report containing point 2.2 to 7	Y/N	
		Conformance/ Compliance certificate.	Y/N	
11	VENDOR REMARKS			

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97032301070
DESCRIPTION PAD, BUFFER, AMMO
PART NUMBER P/N 127618464

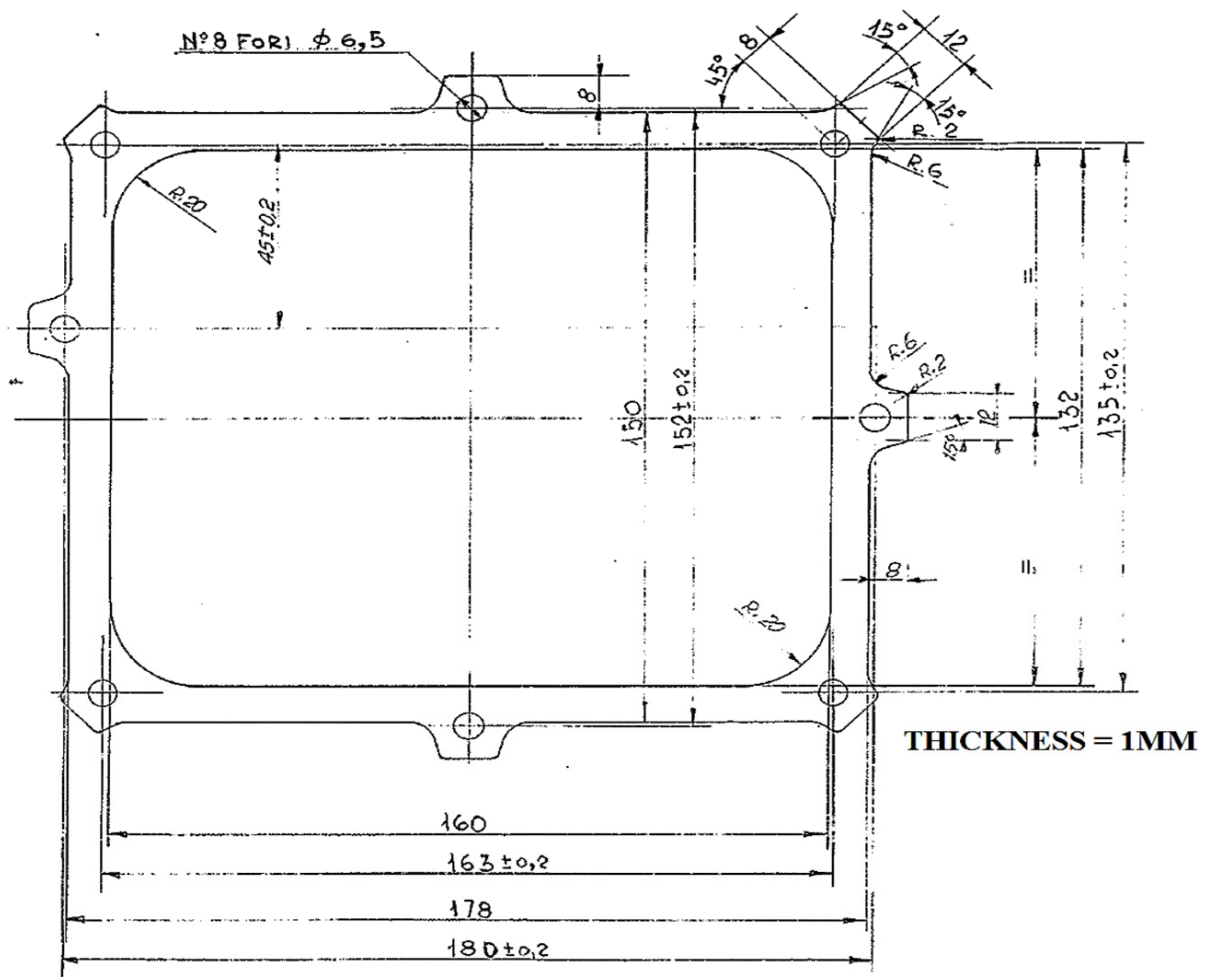
* All dimension are in MM

SN.	DESCRIPTION	TECHNICAL PARAMETERS	UNIT	RESPONSE TYPE	VENDOR RESPONSE (Parameters of offered item to be filled by vendor)
1	MATERIAL	SYNTHETIC RUBBER		To confirm →	
2	SPECIFICATION OF RUBBER	MIL STD 417 / ASTM D2000		specify spec. used →	
3	MATERIAL PROPERTIES (to be reported in MTC)	SC815-A1 B1 C1 E3 F1 Z (Equivalent grade as per ASTM D2000 : M4 BC810- A14 B14 EO34 F17 Z)			
3.1	SC815 (BC810)	MEDIUM VOLUME SWELL RUBBER, OIL RESISTANT (Chloroprene polymers (neoprene), cm)		To confirm →	
3.1.1	durometer hardness number	80 +/-5	-	To confirm →	
3.1.2	tensile strength, min.	10	MPA	To confirm →	
3.1.3	elongation, min.	100	%	To confirm →	
3.2	A14	RESISTANT TO HEAT AGING 70 HOURS AT 100 DEG C			
3.2.1	Hardness change (max)	+/-15	points	Input Value →	
3.2.2	Tensile change (max)	+/-15	%	Input Value →	
3.2.3	Elongation change (max)	-40	%	Input Value →	
3.3	B14	COMPRESSION SET AFTER 22 HOURS AT 100 DEG C			
3.3.1	Change (max)	35	%	Input Value →	
3.4	EO34	RESISTANT TO OIL AGING, 70 HOURS AT 100 DEG C, ASTM OIL NO. IRM 903 (TEST D 471)		To confirm →	
3.4.1	Tensile change (max)	-45	%	Input Value →	
3.4.2	Elongation change (max)	-30	%	Input Value →	
3.4.3	Volume change (max)	80	%	Input Value →	
3.5	F17	LOW TEMPERATURE BRITTLENESS AT -40 DEG C FOR 3 MINUTES (TEST D 2137)	PASS	To confirm →	
4	DIMENSIONS				
4.1	LENGTH	AS PER DRAWING / SKETCH ABOVE		Input Value →	
4.2	WIDTH	AS PER DRAWING / SKETCH ABOVE		Input Value →	
4.3	HEIGHT	AS PER DRAWING / SKETCH ABOVE		Input Value →	
4.4	PROFILE	AS PER DRAWING / SKETCH ABOVE		Input Value →	
5	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM		To confirm →	
6	Shelf Life	minimum 10 years		To confirm →	
7	MATERIAL TEST CERTIFICATE	MTC to include test report for 3.1 to 3.5 above.		confirm to supply →	
8	CERTIFICATION	Certificate of Conformance / Compliance (COC)		confirm to supply →	
9	VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any. Specify the Make >> and Model quoted. >> Deviation, if any >>				

NOTE::

VENDOR ARE REQUESTED TO KINLDY FILL THE VALUES AGAINST "INPUT VALUE"
AND CONFIRM AS YES OR NO AGAINST "TO CONFIRM"

DRAWING FOR P/N 127618464



MATERIAL:

AS PER MIL-STD-417:

SC815-A1 B1 C1 E3 F1 Z

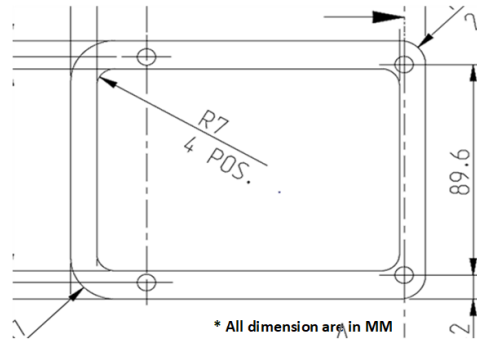
AS PER ASTM D2000:

M4 BC810- A14 B14 EO34 F17

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE
 DESCRIPTION
 PART NUMBER

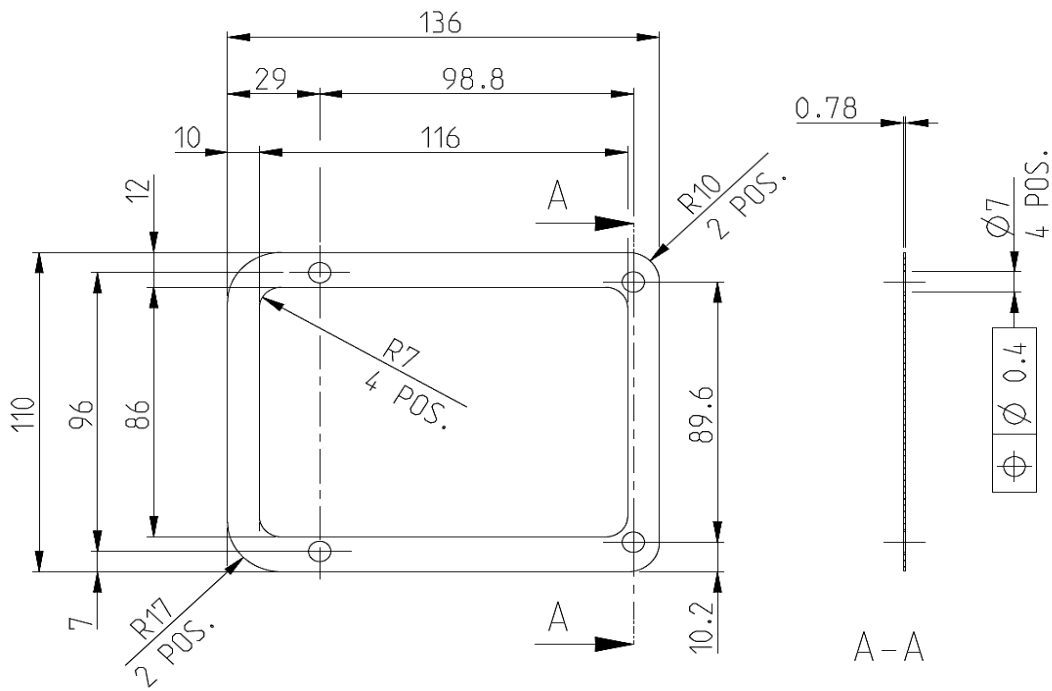
W97032301290
 PAD, BUFFER, AMMO
 P/N 157618420



SN.	DESCRIPTION	TECHNICAL PARAMETERS	UNIT	RESPONSE TYPE	VENDOR RESPONSE (Parameters of offered item to be filled by vendor)
1	MATERIAL	SYNTHETIC RUBBER		To confirm →	
2	SPECIFICATION OF RUBBER	MIL STD 417 / ASTM D2000		specify spec. used →	
3	MATERIAL PROPERTIES (to be reported in MTC)	SB610-A1 B1 C1 E3 F1 M (Equivalent grade as per ASTM D2000 : M5 BG607- A14 B14 EO34 F19)			
3.1	SB610 (BG607)	LOW VOLUME SWELL RUBBER, OIL RESISTANT (NBR Polymers, Urethanes)		To confirm →	
3.1.1	durometer hardness number	60 +/-5	-	To confirm →	
3.1.2	tensile strength, min.	7	MPA	To confirm →	
3.1.3	elongation, min.	250	%	To confirm →	
3.2	A14	RESISTANT TO HEAT AGING 70 HOURS AT 100 DEG C			
3.2.1	Hardness change (max)	+/-15	points	Input Value →	
3.2.2	Tensile change (max)	+/-20	%	Input Value →	
3.2.3	Elongation change (max)	-40	%	Input Value →	
3.3	B14	COMPRESSION SET AFTER 22 HOURS AT 100 DEG C			
3.3.1	Change (max)	25	%	Input Value →	
3.4	EO34	RESISTANT TO OIL AGING, 70 HOURS AT 100 DEG C , ASTM OIL NO. IRM 903 (TEST D 471)		To confirm →	
3.4.1	Tensile change (max)	-45	%	Input Value →	
3.4.2	Elongation change (max)	-45	%	Input Value →	
3.4.3	Volume change (max)	0 to +35	%	Input Value →	
3.4.4	Hardness change after dipping	0 to -15A	points	Input Value →	
3.5	F19	LOW TEMPERATURE BRITTLENESS AT -55 DEG C FOR 3 MINUTES (TEST D 2137)	PASS	To confirm →	
4	DIMENSIONS				
4.1	LENGTH	AS PER DRAWING		Input Value →	
4.2	WIDTH	AS PER DRAWING		Input Value →	
4.3	HEIGHT	AS PER DRAWING		Input Value →	
4.4	PROFILE	AS PER SKETCH ABOVE		Input Value →	
5	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM		To confirm →	
6	Shelf Life	minimum 10 years		To confirm →	
7	MATERIAL TEST CERTIFICATE	MTC to include test report for 3.1 to 3.5 above.		confirm to supply →	
8	CERTIFICATION	Certificate of Conformance / Compliance (COC)		confirm to supply →	
9	VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any. Specify the Make >> and Model quoted. >> Deviation, if any >>				

NOTE::
 VENDOR ARE REQUESTED TO KINLDY FILL THE VALUES AGAINST "INPUT VALUE"
 AND CONFIRM AS YES OR NO AGAINST "TO CONFIRM"

DRAWING FOR P/N 157618420



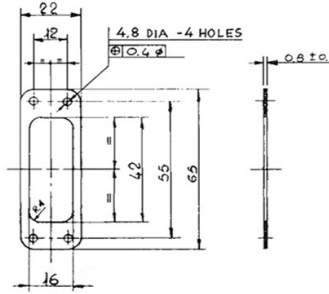
MATERIAL:

AS PER MIL-STD-417: SB610-A1 B1 C1 E3 F1 M

AS PER ASTM D2000: M5 BG607- A14 B14 EO34 F19

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

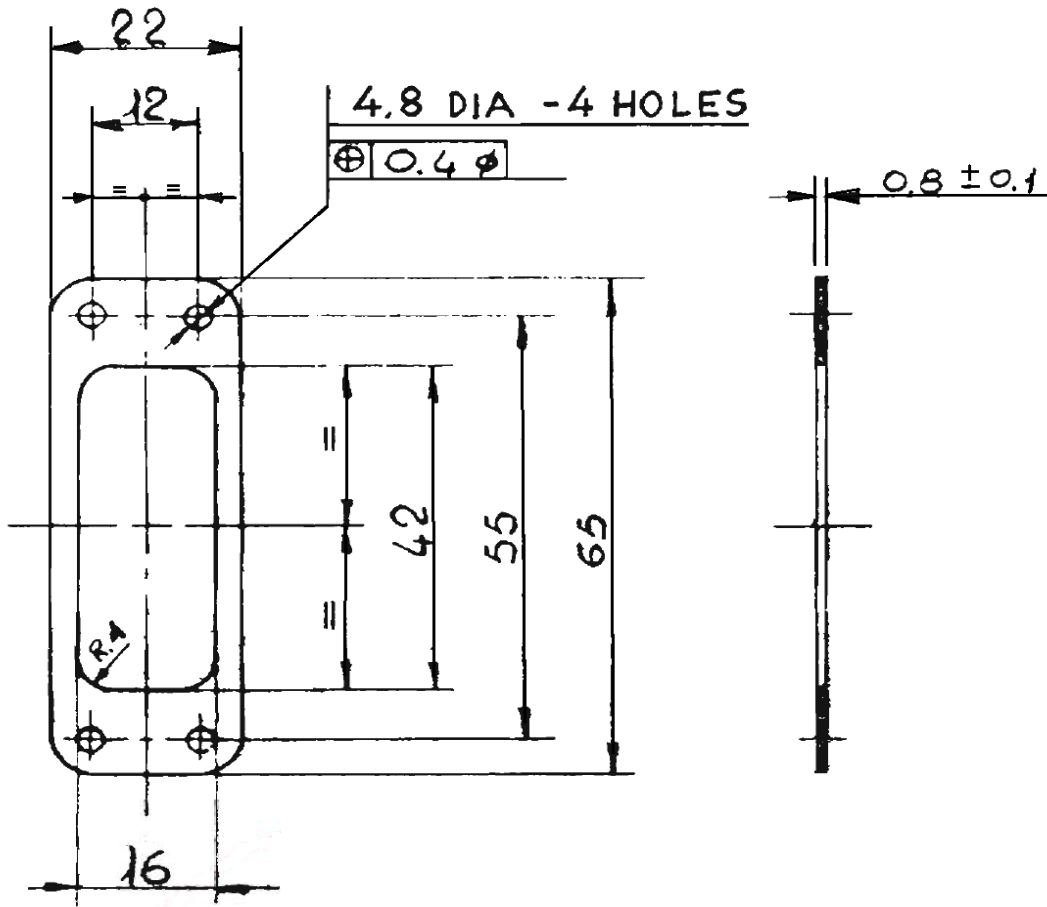
ITEM CODE W97015701154
ITEM NAME GASKET
ITEM PART NO P/N 127619181
INTERNATIONAL EQUIVALENT -



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	DIMENSIONS	AS PER ABOVE SKETCH / DRAWING	MM	Input Value →	
2	MATERIAL	SYNTHETIC RUBBER	-	To confirm →	
3	MATERIAL CONFORMING TO SPEC	MIL STD 417 / ASTM D2000	-	Specify Spec. →	
4	COLOUR	BLACK	-	To confirm →	
5	MATERIAL PROPERTIES (to be reported in MTC)	SC715-A1 B1 C1 E3 F1 Z (Equivalent grade as per ASTM D2000 : M3 BC710-A14 B14 C12 EO34 F17-Z)	-	To confirm →	
5.1	SC715 (BC710)	MEDIUM VOLUME SWELL AND OIL RESISTANT (Chloroprene polymers (neoprene), cm)	-	To confirm →	
5.1.1	durometer hardness number	70 +/-5	-	To confirm →	
5.1.2	tensile strength, min.	10	MPA	To confirm →	
5.1.3	elongation, min.	250	%	To confirm →	
5.2	A14	RESISTANT TO HEAT AGING 70 HOURS AT 100 DEG C	-	To confirm →	
5.2.1	Hardness change (max)	15	%	Input Value →	
5.2.2	Tensile change (max)	-15	%	Input Value →	
5.2.3	Elongation change (max)	-40	%	Input Value →	
5.3	B14	COMPRESSION SET AFTER 22 HOURS AT 150 DEG C	-	To confirm →	
5.3.1	Change (max)	35	%	Input Value →	
5.4	C12	RESISTANCE TO OZONE	-	To confirm →	
5.4.1	Change (max)	100	%	Input Value →	
5.5	EO34	RESISTANT TO OIL AGING, 70 HOURS AT 100 DEG C , ASTM OIL NO. IRM 903 (TEST D 471)	-	To confirm →	
5.5.1	Tensile change (max)	-60	%	Input Value →	
5.5.2	Elongation change (max)	-50	%	Input Value →	
5.5.3	Volume change (max)	+100	%	Input Value →	
5.6	F17	LOW TEMPERATURE BRITTLENESS AT -40 DEG C FOR 3 MINUTES (TEST D 2137)	-	To confirm →	
5.7	Z	96 HR SEA WATER RESISRANCE @ 80 DEG	-	To confirm →	
5.7.1	hardness change after dipping	+/-10 POINT	%	Input Value →	
5.7.2	change in wt/volume	+5% -0 %	%	Input Value →	
6	SHELF LIFE	Minimum 10 years	-	To confirm →	
7	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	-	To confirm →	
8	CERTIFICATION	Material Test Certificate (MTC). MTC to include test report for 5.1 to 5.7 above.	Y	Confirm to supply →	
9	CERTIFICATION	Certificate of Conformance / Compliance (COC)	Y	Confirm to supply →	
10	VENDOR REMARKS				

DRAWING : P/N 127619181

GASKET



TECHNO-COMMERCIAL CHECKLIST

SL. NO.	TERMS & CONDITION	VENDOR CONFIRMATION /REMARKS / REPLY
1	BIDDER NAME	
2	GEM BID NO	
3	ITEM IS TO BE SUPPLIED AS PER TECHNICAL SPECIFICATION	
4	ALL VENDORS TO PROVIDE POINT WISE REPLY/CONFIRMATION ALONG WITH RELEVANT SUPPORTING DOCUMENTS TO EACH AND EVERY POINT OF PRE-QUALIFICATION REQUIREMENT/PQR FOR ALL ENQUIRY ITEMS. NONCOMPLIANCE OF THESE MAY LEAD TO REJECTION OF OFFER AS THESE ARE ESSENTIAL CONDITION FOR PARTICIPATING IN TENDER ENQUIRY	
5	KINDLY UPLOAD/ATTACH THE SPECIFICATION DETAILS/ CATALOGUE OF OFFERED ITEMS.	
6	CURE DATE SHOULD NOT BE EARLIER THAN 4 MONTHS FROM DATE OF RECEIPT AT BHEL HARIDWAR	
7	VENDOR TO CONFIRM TO SUPPLY THE MATERIAL AS PER THE ATTACHED PACKING INSTRUCTIONS	
8	VENDOR TO CONFIRM TO PROVIDE MATERIAL AND DIMENSIONAL TEST CERTIFICATES FOR GASKETS AS PER ENQUIRY CHECKLIST ALONG WITH MATERIAL DISPATCH.	
9	VENDOR TO CONFIRM TO MENTION PO NUMBER, ITEM DESCRIPTION, MANUFACTURERS NAME, BATCH NUMBER, MILITARY SPECIFICATION NUMBER CURE DATE & SHELF LIFE IN T.C. AS WELL AS ON ITEMS PACKING.	
10	VENDOR TO CONFIRM TO PROVIDE DOCUMENTS KEEP PROPER CORRELATION WITH PO ITEMS AND THEIR QUANTITY.	
11	VENDOR TO CONFIRM TO PROVIDE CERTIFICATE OF CONFORMANCE ALONG WITH MATERIAL DISPATCH.	
12	<p>RISK PURCHASE: IN CASE OF ABNORMAL DELAYS (BEYOND THE MAXIMUM LATE DELIVERY PERIOD AS PER LD CLAUSE) IN SUPPLIES / DEFECTIVE SUPPLIES OR NONFULFILLMENT OF ANY OTHER TERMS AND CONDITIONS GIVEN IN PURCHASE ORDER, BHEL MAY CANCEL THE PURCHASE ORDER IN FULL OR PART THEREOF, AND MAY ALSO MAKE THE PURCHASE OF SUCH MATERIAL FROM ELSEWHERE / ALTERNATIVE SOURCE AT THE RISK AND COST OF THE SUPPLIER. BHEL WILL TAKE ALL REASONABLE STEPS TO GET THE MATERIAL FROM ALTERNATE SOURCE AT OPTIMUM COST. IF BIDDER DOES NOT AGREE TO THE ABOVE RISK PURCHASE CLAUSE, BHEL RESERVES THE RIGHT TO REJECT THE OFFER. IN CASE FOR COMPELLING REASONS BHEL ACCEPTS THE OFFER WITHOUT ACCEPTANCE OF THIS CLAUSE BY THE BIDDER AND IN THE EVENTUALITY OF RISK PURCHASE, APPROPRIATE ACTION WILL BE TAKEN AS PER BHEL EXTANT RULES. THIS WILL BE WITHOUT PREJUDICE TO ANY OTHER RIGHT OF BHEL UNDER THE CONTRACT OR UNDER GENERAL LAW.</p>	
13	<p>ACTION AGAINST BIDDERS / VENDOR / SUPPLIER / CONTRACTOR IN CASE OF DEFAULT: IN ORDER TO PROTECT THE COMMERCIAL INTERESTS OF BHEL, BHEL SHALL TAKE ACTION AGAINST SUPPLIES / CONTRACTORS BY WAY OF SUSPENSION OF BUSINESS DEALINGS, WHO EITHER FAIL TO PERFORM OR ARE IN DEFAULT WITHOUT ANY REASONABLE CAUSE, CAUSE LOSS OF BUSINESS/ MONEY/ REPUTATION, INDULGE IN MALPRACTICES, CHEATING, BRIBERY, FRAUD OR ANY OTHER MISCONDUCT OR FORMATION OF CARTELS SO AS TO INFLUENCE THE BIDDING PROCESS OR INFLUENCE THE PRICE ETC.</p> <p>SUSPENSION OF BUSINESS DEALINGS COULD BE IN THE FORM OF "HOLD" OR "BANNING" A SUPPLIER/ CONTRACTOR OR A BIDDER AND SHALL BE AS PER "GUIDELINES FOR SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/ CONTRACTORS" AVAILABLE AT BHEL'S WEBSITE "https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors"</p>	

Packing/labelling instructions are as follows:

- Each Rubber Item like ORING, SEAL, PACKING, STRIP, GASKET, PAD, GUARD etc should be individually packed & labelled.
- Heat sealable opaque materials should be used unless not practical to prevent distortion of the packaged product.
- Suitable materials for packing are polyethylene (PE)-coated Kraft paper, aluminum foil/paper/PE laminate and opaque PE film. PE is suitable as a single wrapping and should be at least 0.075 mm thick.
- The packing shouldn't be sealed using stapler Pin / Tape. The Packing should be Hot sealed/Machine sealed.
- Packing should be temper-proof & Marking on printed stickers of the labels should be long lasting (enough till the life of the Seals/O-rings)
- Following minimum details are to be labeled/Printed on each packets:
 - i) PO NUMBER
 - ii) ITEM DESCRIPTION
 - iii) MANUFACTURERS NAME
 - iv) MANUFACTURERS BATCH NUMBER
 - v) MILITARY SPECIFICATION NUMBER
 - vi) CURE DATE
 - vii) SHELF LIFE

1. ALL VENDORS TO PROVIDE POINT WISE REPLY/CONFIRMATION ALONG WITH RELEVANT SUPPORTING DOCUMENTS TO EACH AND EVERY POINT OF PRE-QUALIFICATION REQUIREMENT/PQR FOR ALL ENQUIRY ITEMS. NONCOMPLIANCE OF THESE MAY LEAD TO REJECTION OF OFFER AS THESE ARE ESSENTIAL CONDITION FOR PARTICIPATING IN TENDER ENQUIRY
2. KINDLY UPLOAD/ATTACH THE SPECIFICATION DETAILS/ CATALOGUE OF OFFERED ITEMS.
3. KINDLY ARRANGE TO **SUBMIT TECHNO-COMMERCIAL CHECKLIST** ALONG WITH YOUR OFFER.
4. CURE DATE SHOULD NOT BE EARLIER THAN 4 MONTHS FROM DATE OF RECEIPT AT BHEL HARIDWAR.
5. VENDOR TO CONFIRM TO PROVIDE MATERIAL AND DIMENSIONAL TEST CERTIFICATES FOR GASKETS AS PER ENQUIRY CHECKLIST ALONG WITH MATERIAL DISPATCH.
6. VENDOR TO CONFIRM TO MENTION PO NUMBER, ITEM DESCRIPTION, MANUFACTURERS NAME, BATCH NUMBER, MILITARY SPECIFICATION NUMBER CURE DATE & SHELF LIFE IN T.C. AS WELL AS ON ITEMS PACKING.
7. VENDOR TO CONFIRM TO PROVIDE DOCUMENTS KEEP PROPER CORRELATION WITH PO ITEMS AND THEIR QUANTITY.
8. VENDOR TO CONFIRM TO PROVIDE CERTIFICATE OF CONFORMANCE ALONG WITH MATERIAL DISPATCH.
9. VENDOR TO CONFIRM TO SUPPLY THE MATERIAL AS PER THE ATTACHED PACKING INSTRUCTIONS.
10. MSE/MII: THE SUPPLIER NEEDS TO SUBMIT/UPDATE MSE/MII CREDENTIALS ON GEM PORTAL DURING PROFILE UPDATION/ OFFER SUBMISSION STAGE. THE MSE DATA SUBMITTED IS CROSS VERIFIED BY GEM WITH GOVT. OF INDIA UDYAM/NSIC DATABASE THROUGH API INTEGRATION ON REAL TIME BASIS AND FOR MII, A SELF DECLARATION IS BEING GIVEN AND AUTHENTICATED BY AADHAR OTP. IF THE SELLER FAILS TO CLAIM MSE/MII PROVISION ON GEM PORTAL AT PROFILE UPDATION/BID SUBMISSION STAGE, THE SAID SELLER WILL BECOME INELIGIBLE FOR GETTING THE MSE/MII BENEFITS FOR THAT BID AUTOMATICALLY. THE VENDOR CAN ALWAYS CONTACT THE GEM HELPDESK, IN CASE OF ANY ISSUES.
11. THE PRICE QUOTE BY BIDDER SHOULD BE INCLUSIVE OF GST & SHOULD BE ON BHEL HEEP HARIDWAR STORES BASIS.
12. BIDDER'S OFFER IS LIABLE TO BE REJECTED IF THEY DON'T UPLOAD ANY OF THE CERTIFICATES / DOCUMENTS SOUGHT IN THE BID DOCUMENT, ATC AND CORRIGENDUM IF ANY.
13. **RISK PURCHASE:** IN CASE OF ABNORMAL DELAYS (BEYOND THE MAXIMUM LATE DELIVERY PERIOD AS PER LD CLAUSE) IN SUPPLIES / DEFECTIVE SUPPLIES OR NONFULFILLMENT OF ANY OTHER TERMS AND CONDITIONS GIVEN IN PURCHASE ORDER, BHEL MAY CANCEL THE PURCHASE ORDER IN FULL OR PART THEREOF, AND MAY ALSO MAKE THE PURCHASE OF SUCH MATERIAL FROM ELSEWHERE / ALTERNATIVE SOURCE AT THE RISK AND COST OF THE SUPPLIER. BHEL WILL TAKE ALL REASONABLE STEPS TO GET THE MATERIAL FROM ALTERNATE SOURCE AT OPTIMUM COST. IF BIDDER DOES NOT AGREE TO THE ABOVE RISK PURCHASE CLAUSE, BHEL RESERVES THE RIGHT TO REJECT THE OFFER. IN CASE FOR COMPELLING REASONS BHEL ACCEPTS THE OFFER WITHOUT ACCEPTANCE OF THIS CLAUSE BY THE BIDDER AND IN THE EVENTUALITY OF RISK PURCHASE, APPROPRIATE ACTION WILL BE TAKEN AS PER BHEL EXTANT RULES. THIS WILL BE WITHOUT PREJUDICE TO ANY OTHER RIGHT OF BHEL UNDER THE CONTRACT OR UNDER GENERAL LAW.
14. **ACTION AGAINST BIDDERS / VENDOR / SUPPLIER / CONTRACTOR IN CASE OF DEFAULT:**
IN ORDER TO PROTECT THE COMMERCIAL INTERESTS OF BHEL, BHEL SHALL TAKE ACTION AGAINST SUPPLIES / CONTRACTORS BY WAY OF SUSPENSION OF BUSINESS DEALINGS, WHO EITHER FAIL TO PERFORM OR ARE IN DEFAULT WITHOUT ANY REASONABLE CAUSE, CAUSE LOSS OF BUSINESS/ MONEY/ REPUTATION, INDULGE IN MALPRACTICES, CHEATING, BRIBERY, FRAUD OR ANY OTHER MISCONDUCT OR FORMATION OF CARTELS SO AS TO INFLUENCE THE BIDDING PROCESS OR INFLUENCE THE PRICE ETC.
SUSPENSION OF BUSINESS DEALINGS COULD BE IN THE FORM OF "HOLD" OR "BANNING" A SUPPLIER/ CONTRACTOR OR A BIDDER AND SHALL BE AS PER "GUIDELINES FOR SUSPENSION OF BUSINESS DEALINGS

WITH SUPPLIERS/ CONTRACTORS" AVAILABLE AT BHEL'S WEBSITE <https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors>

15. BIDDERS ARE ADVISED TO CHECK APPLICABLE GST ON THEIR OWN BEFORE QUOTING. BUYER WILL NOT TAKE ANY RESPONSIBILITY IN THIS REGARDS. GST REIMBURSEMENT WILL BE AS PER ACTUALS OR AS PER APPLICABLE RATES (WHICHEVER IS LOWER), SUBJECT TO THE MAXIMUM OF QUOTED GST %.
16. BIDDER SHALL SUBMIT THE FOLLOWING DOCUMENTS ALONG WITH THEIR BID FOR VENDOR CODE CREATION:
A. COPY OF PAN CARD B. COPY OF GSTIN C. COPY OF MSE CERIFICATE
17. DEDICATED /TOLL FREE TELEPHONE NO. FOR SERVICE SUPPORT: BIDDER/OEM MUST HAVE DEDICATED/TOLL FREE TELEPHONE NO. FOR SERVICE SUPPORT.
18. DATA SHEET OF THE PRODUCT(S) OFFERED IN THE BID, ARE TO BE UPLOADED ALONG WITH THE BID DOCUMENTS. BUYERS CAN MATCH AND VERIFY THE DATA SHEET WITH THE PRODUCT SPECIFICATIONS OFFERED. IN CASE OF ANY UNEXPLAINED MISMATCH OF TECHNICAL PARAMETERS, THE BID IS LIABLE FOR REJECTION.
19. SCOPE OF SUPPLY (BID PRICE TO INCLUDE ALL COST COMPONENTS): ONLY SUPPLY OF GOODS.
20. PRODUCTS SUPPLIED SHALL BE NONTOXIC AND HARMLESS TO HEALTH. IN THE CASE OF TOXIC MATERIALS, MATERIAL SAFETY DATA SHEET MAY BE FURNISHED ALONG WITH THE MATERIAL.
21. WHILE GENERATING INVOICE IN GEM PORTAL, THE SELLER MUST UPLOAD SCANNED COPY OF GST INVOICE AND THE SCREENSHOT OF GST PORTAL CONFIRMING PAYMENT OF GST.

22. PAYMENT TERMS SHALL BE AS PER FOLLOWINGS:

- a) **For Non-MSME bidders:** 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 90 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order. (MSME means Micro, Small & Medium Enterprises) (THIS IS IN SUPERSESION OF 10 DAYS' TIME AS PROVIDED IN CLAUSE 12 OF GEM GTC).
- b) **FOR MSE BIDDER:** For MSEs (covered under MSME Act) which are registered and periodically renewed with BHEL, the payment will be made within 45 days or as prescribed in the relevant act. Benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. No MSE benefits shall be provided to Agents / Stockists /Dealers / Traders etc. for the items offered but not manufactured by themselves."
- c) **FOR MEDIUM ENTERPRISES:** 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 60 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order.
- d) Please note that vendor to adhere to the payment terms as per above. No deviation in payment terms shall be accepted. Vendor to submit their offer accordingly.