7.4		ात ए स	प ई एम (४४			Acres 1 and 1 see 15	4702 069	A Land	37					
	•				STEAM TUR	BIN	E ENGINEERI	NG	प्रवट	4	का	1		
					PRODUC	CT	STANDARI)	Page	1	of	4		
SUPERSEDES INVENTORY NO														
SCI				GENER	CAL PURCHAS	E SPI	ECIFICATION OF	CVALVES						
सामग्री सूची संख्या को अधिकमित करता है		1.0	turbine integral system handling hot condensate, superheated steam, air steam mixture, steam water mixture, oil & oil vapours, fire resistant fluid & its vapours. Separate specifications to indicate specific requirements e.g. design parameters, nominal size etc. have been prepared for each valve which shall be enclosed with this specification whenever any requirement arises.											
FIAL Heavy Fleerings	rindirectly in any way detrimental to the	2.0	specified	l in separate s	specification / do	cumer	ected by valve suppl nts / drawings / enqu as per ANSI B16.3	iry of desired va	lve to v	vhich	s as			
IDEN	any way	3.0	END CO											
ロラギ	3 0 5	3.1	····											
COPYRIGHT Al	must not be used directly interest	3.2	In case of & fastner	ter flanges, gaskets, O-ring										
COP	Limited.It must no	4.0	selected f	from the best he material s	available materia pecification of va	l for t lve co	nstruction of the value of the purpose. The purponents and to as an entioned in the value of the	rchaser / owner ro k changes in sele	eserves ection o	the ri	ight t	0		
नार एवं गोपनीय	इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रत्यक्ष एव कि कंपनी के हित में हानिकारक हो न किया जाए	5.0	piping sy This shal placemen	stem, a drair il be checked it of order. T plugged with	n tapping in the bo and intimated by the tapping shall t	ody m purcl be at the	ding on the construct ay be required for v haser / owner after the he lowest point and ther. The drain size	alves used in oil, he receipt of offe on the center line	steam or or at e, which	and w the tin h shall	vater ne of I be	lines.		
स्वत्वाधिकार	इस प्रतेख में दी गई सूचना भारत होती इतिरिद्धकल्स की सम्पत्ति है इसका प्रत्यक्ष अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया	6.0	1. Each	o 300 - 20 c above - 25 valve shall be	e marked with an		on body showing on		of med	i u m, 1	not			
दिनांक DATE			2. Handy	wheel shall h	ave the indication	ı for o	pening & closing di	rection.						
88 A	Ť							नाम NAME		दिनां SIGNAT	क एवं हस्त TURE &			
STREETING SIGN	12					अनुवादक	TRANSLATED BY							
		TSX	D	L OBEROI	1 Poton 2914120	्रिमांणकत् क्षां		S.K.GUPTA	را	المما	باير	a 7 04		
RY		QAX सहमत		S.CHAUHAN	दिनांक एवं हस्ताक्षर	जांचकर्ता	CHECKED BY	V.K.GUPTA		\bc		<u> </u>		
VENTC	22	AGREED		NAME	DATE & SIGNATURE	पथवक्षणव स्वीकृति		V.K.GUPTA		<u>rak</u>	<u> ኍ</u>	3.7. <i>0</i> 5		
NO N	N						oved:	c. Shally			\vdash			
सामग्री सूची संख्या INVENTORY	9.5	REV.NO				निर्माण PREPA	: ARED: STE	ज़ारी ISSUED : STE (TL) HARDWA		दिनांक : DATE : 26 ·		4		

BI (1)	्रवी एग	<i>इंस्म</i>			उत्पा	=	मान	ф		ST4'			
दिनांक एवं हस्तक्षर SIGN & DATE	H	EE		STEA	M TURE	BIN	E ENGI	NEERING		पृष्ठ	4	का	2
दिना SIC				PR	ODUC'	Γ	STAN	DARD		Page	2	of	4
SUPERSEDES INVENTORY NO.			AND SEA angement.	<u>LING</u> :- V	alves work	king	under vac	cuum are to b	e provided w	ith gland	seal	ing	
सामग्री सूची संख्या को SI अधिकमित करता है INV	7.0	the inte accorda tested l the test	ernals shall ance with a by air as pe certificate	be wiped ANSI B16 or ANSI B os mention	cleaned ar .34. For ste 16.34. Purc	nd d earn chas est p	ried. The & air serv er/owner: oressure &	body & seat s rice valves, se shall have the	ach valve. Aft shall be tested eat leakage she right to witn test along with	l hydrauli all additi ess the te	call onal st. F	y in ly be	
ectrical al to the		1. Valv	e identific	ation No.	-								
TIAL t Heavy El detriment		2. Type	e of valve	& descript	ion								
CONFIDENTIAL e property of Bharat Heavy idirectly in any way detrim e company		3. Valv	e size										
D CON the proper rindirectly the compa		4. Nam	ne of manu	facturer	٠								
HT AND cuments is the directly or in interest of the		5. Proj	ect name										
COPYRIGHT mation on this docum must not be used dire		6. Date	e of testing					÷					
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited It must not be used directly or indirectly in any way detrimental to the interest of the company	8.0	white sp	oirit) to cle	an & prep	are them fo	r th	e applicat		all be rubbed v ints. Unmachi be painted.				e
क्ष एवं या जाए		1. Outer	surface to	be protec	ted by pain	ting	with two	coats of Red	oxide Zinc cl	hromate j	orim	er.	
पनीय सन्पत्ति है इसका प्रत्यक्ष एवं में हानिकारक हो न किया जाए		2. Inside	e surface to	be protec	ted against	rus	ting and c	orrosion.					
र्ग गोपनीय ब्ल्स की सम्पत्ति । के हित में हानिक	9.0							on in English body cover.	shall be engr	aved on a	a me	tal sh	eet
कार एवं हेवे इलेक्ट्रिकल जो कि कंपनी के		1. Identi	fication No	o. as specif	fied in encl	ose	l valve sp	ecification.					
स्दन्दाधिकार एवं गो। इस प्रतेय में दी गई धूचना भारत हेबी इलेक्ट्रिकल्स की अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कॅप्पी के दित		2. Valve	type & De	escription									
न् ख भेदी गई। से किसी भी		3. Valve	size										
इस प्रले अप्रत्यक्ष रूप		4. Pressu	re rating					,					
₽ 20		5. Manu	facturer	•				-	·				
हस्ताक्षर एवं दिनांक SIGN & DATE		6. Year	of manufa	cturing									
The Signature of the state of t		7. Proje	ect name										
HESH RY NO.	REV. N	O. 02						निर्माणकर्ता WORKED BY	S.K.GUPTA	yeur	1	9171	04
सामग्री पूनी संख्या INVENTORY NO.								जांचकर्ता CHECKED BY	V.K.GUPTA	Upor		9/17	104
	ļ							<u> </u>	1	<u></u>	i		

ST47025 उत्पाद मानक भी एवं ई एम दिनांक एवं हस्ताक्षर HW0690097 SIGN & DATE STEAM TURBINE ENGINEERING Page PRODUCT STANDARD 3 SUPERSEDES INVENTORY NO. 10.0 **STANDARD**:- Latest issue and amendments of all applicable international standard shall apply. 11.0 PACKING: Valve ends, machined and unmachined surface, etc. shall be protected against लामग्री सूची संख्या को rusting & corrosion and valve shall be packed according to mode of transport and storage in top shade store gantry in tropical climatic conditions for a period of 8-12 months. 12.0 GUARANTEE: The supplier shall guarantee trouble free operation of the equipment for a period of 2 years after installation and commissioning or a period of 3 years from the date of COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bhaza Heavy Electrical Limited. I must not be used directly or indirectly in any way definitional to the interest of the company dispatch of equipment whichever is earlier. If during erection/commissioning and operation at site, any defect in any component is detected, purchaser's / owner's site representative shall prepare the assessment report and a copy of the same shall be forwarded to the supplier. The supplier shall replace rectify the concerned items free of charge. The supplier, if he so desires, may deputes his representative to site at his own cost otherwise the report of purchaser's / owner's site representative shall be binding on the supplier. 13.0 ... SPARES: The offer of valves shall include the requirement of spares to be made available at the time of erection & commissioning. A separate offer of spares to be required for 3 to 5 years of operation shall also be separately enclosed along with main offer. 14.0. SPECIAL TOOLS & TACKLES: Any special tools & tackles, required for erection, commissioning and maintenance of valves shall be included in main offer per set of valves. अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कपनी के हित में झिनेकारक हो न किया जाए इस प्रलेख में दी गई सूचना मारत हेवी इलेक्ट्रिकल्स की सन्मित्त है इसका प्रत्यक्ष एवं **QUALITY ASSURANCE, INSPECTION AND TESTING:** 15.0 The manufacturer shall conduct all tests required to ensure all the component parts of the valve 15.1 स्वत्वाधिकार एवं गोपनीय offered conform to the requirements of the specification and in compliance with requirements of applicable codes and standards. 15.2 The bidder shall submit along with his offer quality plan in the prescribed BHEL's format. 15.3 The particulars of the proposed shop tests and procedures for the tests shall be submitted to the BHEL / owner for approval along with quality plan. 15.4 The equipment shall be dispatched only after inspection and clearance of material by BHEL / owner and approval of test certificates by BHEL / owner. 15.5 The minimum tests/ checks to be carried out on the valve as envisaged by purchaser shall be as per the specification of desired valve to which this specification is enclosed. This is, however not intended to form a comprehensive testing programme as it is supplier's responsibility to prepare IGN & DATE Ø हस्ताक्षर एवं दिनांक the detailed quality plan, which should also include tests, checks carried out by supplier as a part of their normal practice. This quality plan is subject to the approval of BHEL and owner. BHEL/owner reserves the fight to ask for any more checks at the time of quality plan finalisation. **REV. NO. 02** निर्माणकर्ता S.K.GUPTA

WORKED BY

CHECKED BY

V.K.GUPTA

जांचकर्ता

NVENTORY NO 22

S

3

4

का

of

70 IGN & DATE हस्ताक्षर एवं दिनांक 2 0 सामग्री सूची संख्या S

S

ď,

REV. NO. 02

Cross referred standards: - ANSI B16.34

S.K.GUPTA निर्माणकर्ता WORKED BY

V.K.GUPTA

917104

का

of

4

जांचकर्ता CHECKED BY

9/7/04

& DATE

SIGN

SUPERSEDES INVENTORY No.

The information on this document is the property of BHARAT REAVY ELECTRICALS LIMITED, it must not be used directly or indirectly in any way definental to the insterest of the company

COPYRIGHT AND CONFIDENTIAL

HHI

PRODUCT STANDARD STEAM TURBINE ENGINEERING

ST 47034

FURM

PAGE 1 OF 3

Own Experience

TECHNICAL SPECIFICATION OF NON-RETURN VALVES FOR LUBE OIL AND FIRE RESISTANT FLUID VAPOUR EXHAUST LINE.

1.0 SCOPE

This specification covers design, manufacturing assembly, testing and supply of Non-return valves as per sketch 1.0 to be installed in turbine lube oil and FRF vapour exhaust line with identification number (as tabulated below:

SL. NO.	Identification Number.	Size No	Flow medium	Working Para- meters	had conn- ection
1 2 3	MAV82AA001 MAV82AA002 MAX82AA003	125 125 801 801	Sorvo -prime 46 of 10C fire resis- tant Fluid (Phosp- oric ester)	Pressure 2 kg/cm ² abs. Temp. 70°C	To be fitted between flanges as per DIN 2633

2.0 FUNCTION

These valves are to be installed on main oil tank and fRF tank after each vapour exhausters to prevent back flow of vapours in case one vapour exhauster is under maintenance.

į.									
щ	-							NAME	SIGN. & DATE
DATE	ybs/sh						DRAWN		
8. 1	sts	1	TSX	B.M. BANSA	Bust	24.5.%	WORKED	A. K. JAIN	Alexan 2.3.84
SIGN		91	XA.D	H_C.UPADHYA	hun 9	3.84	CHECKED	K.C. SACHAN	lesachan 19.3.84
SE	(28)		DEPTI	NAME	SIGN. & [DATE	SUPERVISED	S.S. KULKARNI	Z (My 19.384)
6		enoverous Eri	vision : 0.2	D	istribution	Qty.	Approved :	polalla.	. ₹ ST
ORY NO	ذ سا ا	Nai	ne sign				·	. DEV. MANA	0.0
1 1	55		aupta/11-				Prepared	Issued	Date
i i i	9	R	affirmed Feb. 20	જિલ્લ			STE	STE (TL) Hardwar	26.3.84



DATE

ಷ SIGN

SUPERSEDES

INVENTORY NO

The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way detrimental to the insterest of the company

COPYRIGHT AND CONFIDENTIAL

& DATE

SIGN

INVENTORY No.

15/2/89

Ê

 $\frac{1}{2}$

5

PRODUCT STANDARD

ST 47034

STEAM TURBINE ENGINEERING

OF 3 PAGE

RATING: Nominal pressure rating = 16 kg/cm2 3.0

MATERI AL 4.0 flap of Aluminium? Body of Carbonsteel, Material of Ainternals to be selected by supplier and to be informed to purchaser for their comments, if any. also refer clause 4.0 of ST 47025. All gaskets shall be of VITON.

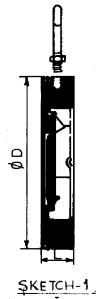
END CONNECTIONS 2.0

> Valves are to be fitted between flanges as per DIN 2633.

6.0 SPECIAL FEATURE:

> Maximum permissible pressure drop across the valve at sl.Nos. 1 & 2 with 0.11 m3/sec flow of air shall 60 mmwc and across the valve at \$1.Nos. 3 & 4 with 0.02 m3/sec flow of air shall be

7.0 For completion of this specification, read this specification alongwith general purchase specification of valves ST 47025.



		-		
SKETCH-1	ŞΚ	ETC	:H-	1_

Revision: 02

NOM. BIA.	DIM.IN	N MM	WT APPX IN KG	
M.M.	\supset	D	K.G.	
80	24	134	1.80	
100	27	154	2.50	

DATE

વ્ઇ

SIGN

SUPERSEDES INVENTORY No.

The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED. It must not be used directly or indirectly in any way determental to the instense of the company

AND CONFIDENTIAL

COPYRIGHT

SIGN & DATE

NVENTORY NO.

BHH

PRODUCT STANDARD

ST 47034

STEAM TURBINE ENGINEERING

PAGE 3 OF 3

8.0 In continuation to clause 15.0 of Specification ST 47025, the min. test requirement envisaged by BHEL are as follows:-

- 8.1 Testing of Materials: The material of components of valve such as body destruction for its chemical composition and mechanical properties. For remaining components compliance certificate shall be furnished.
- 8.2 DPT on seat.

8.3 Functional test. smuth movement of the flap.

REVISION: 02

ADDENDUM TO ST47025

APPLICATION: STEAM TURBINE

Date: 16.11.2011

ITEM

: GENERAL SPECIFICATION OF VALVES

Rev: 01

ADDITIONAL SPECIFICATION:

a) Pressure retaining parts of valves shall be subjected to NDT as per Table-I.

- b) Bar stock / forging above 50mm diameter for valve trim shall be subjected to UT.
- Hardened / stellitted valve disc and seat are to be subjected to LPI and hardness check.
- d) Colour matching of valve disc / plug and seat shall be carried out to ensure contact.
- e) Hydraulic pressure test and seat leak test shall be carried out as per ANSI 16.34.
- Air seat leak test shall be carried out as per applicable standards / codes.
- g) Functional testing shall be carried out on each valve to check the following as per the approved valve data sheet:
 - (i) Smooth operation
 - (ii) Valve travel, closing and opening time
 - (iii) Current drawn by actuators
- Springs for safety valves shall be tested with suitable NDT and for spring rate.
- Safety and safety relief valves shall be tested for performance.

TABLE-I

Valve Size NB in mm	ANSI Class UPTO 300	ANSI Class ABOVE 300 UPTO 600	ANSI Class ABOVE 600 BELOW 900	ANSI Class 900 & ABOVE & BELOW 4500
Less than 50	Visual	Visual	Visual	MPI
50 & above but below 100	Visual	Visual	MPI	MPI & RT (on 10% of valves on 100% area)
100 & above but less than 300	Visual	MPI	MPI & RT (on 10% of valves on change of section & weld end	MPI & RT (on 100% area)
300 & above	MPI	MPI	MPI & RT (on change of section & weld end	MPI & RT (on 100% area)

NOTE: 1. For body and bonnet forgings UT with MPI may be adopted in place of RT.

- 2. For austenitic steel MPI may be replaced by LPI.
- 3. Outer surface of valve shall be painted as per following painting scheme

Paint (Coat - air less)

Paint Type

No. of coat DFT*

: Epoxy base Zinc rich primer paint(IS:14946) Primer Paint

Intermediate Paint : Epoxy MiO Polyamide Cured Paint

Finish (Final) Paint: Aliphatic Acrylic Polyurethane Finish paint

75 1 Coat 1 Coat 100 1 Coats 50 Total DFT 225 (microns)

Stainless Steel Surfaces shall not be painted in general. The painting environment shall be considered as C-4 as per ISO 12944.

SHADE AS PER RAL/IS:5 IS GREY 9002

This supersedes clause 8 (i) of ST47025.

- 4. Valve made of stainless steel shall not be painted.
- Valve body material for the following temperature parameter shall be as follows:-

Upto 400°C - Carbon steel

401°C - 495°C - Alloy steel (15Mo3 or equivalent)

496°C - 550°C - Alloy steel (10CrMo910 or equivalent)

Above 550°C Alloy steel (X10CrMoVNb9-1 or equivalent)

6. Each type of Angle Drain valve (MAL valves) and Temperature control valve offered should have a minimum of two years of operational experience in similar application at the time of offer submission.

QAX, BHEL, HARDWAR

PED, BHEL, HARDWAR



BHARAT HEAVY ELECTRICALS LIMITED, HARIDWAR

STE-TL ENGINEERING DEPARTMENT

PRE-QUALIFICATION REQUIREMENT NRV WITH ALUMINIUM FLAP

DOCUMENT NO. TL/NRV/PQR/20200002 Rev:00 Dt:13.11.2021

Description:

These valves are single plate (Material-aluminium) type valve and are installed in horizontal run of pipe after each vapour exhauster to prevent the backward flow of air+steam mixture in case of vapour exhauster is under maintenance.

Mandatory requirement for Pre-Qualification:

1. The vendor should have successfully designed, manufactured, tested & supplied of NRV with aluminum flap valves. Vendor should have supplied one (1) no. in at least one power or process plants in last seven (7) years from the date of issuance of enquiry with following technical details mentioned in table-1.

Table-1

	The state of the s				
Valve Type	Single Plate Check/NRV Valve				
Valve Size Range	NB200 & above				
Body Type	Wafer				
Valve Rating	CL150 & above as per ASME B16.34 or equivalent				
Valve Body Material	Cast Steel-A216Gr.B or higher grade				
Flow Medium	Air+Steam Mixture				

- 2. The vendor should furnish the following documents in line with criteria given in above sl.no.1.
- a. Executed unpriced Purchase order (P.O.) should not be older than seven (7) years from the date of issuance of enquiry.
- b. Dispatch document w.r.t above executed P. O. i.e. Approved valve GA drawing & data sheet, Delivery challan, Tax invoice, Inspection report & Lorry way bill for our review.
- c. Those who have supplied above mentioned valve to BHEL-HARIDWAR to furnish only P.O. ref. for our review.

Note: -

- 1. BHEL reserves the right to verify the information submitted by vendor. Submission of false/incorrect information shall lead to rejection of offer.
- 2. BHEL reserves the right to ask for more pertinent information /documents / clarifications. Vendor shall provide this information to BHEL in a timely manner so that project schedule doesn't hamper.
- 3. All the documents furnished to BHEL shall be in Hindi/English language only. If the documents are not in Hindi/English, then they must be accompanied with duly certified Hindi/English translations of the same.

Prepared By	Checked By	Approved By
SUNIL KR. SHARMA	ANIL KUMAR And Lumar	S.K SONKAR
Dy. Engineer/TL 13.12	Sr. Engineer/TL 18 11 2	Sr. Manager/TL

				QUALITY	Y PLAN								Page 1 of 2
	QP NO.	QA_BI_QP_117		REV.	00		DESCRIP	TION		LE	GEND	S	
BHEL	SPEC. NO.	AS PER PO		REV.	AS PER PO	NRV W	ITH ALUMINIUM F	FLAP	P- PERFORMED	BY	1	- BHE	L REP
	DRG. NO.	APPROVED DRAWING	G AS PER PO	REV.	AS PER PO				W- WITNESSED				IDOR
					•				V- VERIFIED B	Y	3-	- SUB	VENDOR
SL. NO	COMPONENT OPERATION	CHARACTERISTICS	CLASSIFI- CATION	TYPE OF CHECK	QUA	ANTUM	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGI	ENCY		REMARKS
										P	W	V	
1	MATERIAL												
1.1	BODY, DISC	CHEMICAL COMPOSITION MECHANICAL PROPERTIES	MAJOR	CHEMICAL MECHANICAL	1 / HE	AT	ORDERING SPEC. / BHEL APPD. DRG.	ORDERING SPEC. / BHEL APPD. DRG.	MILL TC	3/2	-	2/	
		SURFACE DEFECTS	MAJOR	VISUAL	100%		MSS-SP-55	MSS-SP-55	TC	2	-	1	
		DIMENSIONS	MAJOR	MEASUREMENT	Γ 100%	BHEL APPD. DRG.		BHEL APPD. DRG.	TC	2	-	1	
2. IN	PROCESS INSPECTION	ON							•		•		•
2.1	MACHINING OF BODY,	DIMENSIONS	MAJOR	MEASUREMENT	100%		BHEL APPD. DRG.	BHEL APPD. DRG.	IR	2	-	-	
	DISC	SURFACE DEFECTS	MAJOR	DPT	100%		ASTM E165 ASME B16.34	ASME B16.34	TC	2	-	1	
2.2	HARD FACING ON DISC & SEAT	HARDNESS	MAJOR	HARDNESS	10%		BHEL APPD. DR	G.		2	-	1	IF CALLED IN DRAWING
3	FINAL INSPECTION	N								1	1		<u> </u>
3.1	ASSEMBLY OF VALVE	DIMENSIONS	MAJOR	MEASUREMENT	Γ 100%		BHEL APPD. DRG.	BHEL APPD. DRG.	TC	2	1		
3.2	FUNCTIONAL TEST	SMOOTH OPERATION OPENING & CLOSING	MAJOR	OPERATION	100%		SMOOTH OPERA	ATION OF VALVE	TC	2	1*		* 10% (MIN. 2 NO.)
3.3	HYDRAULIC TEST	LEAKAGE	CRITICAL	HYDRAULIC	100%		ORDERING SPEC. / BHEL APPD. DRG	NO LEAKAGE	TC	2	1*	-	* 10% (MIN. 2 NO.)
		LEGE		rieied with "	тіск, спуі	IDEES	SENTIALLV	FOR CUSTOMER					
	UFACTURER/ CONTRACTO				N QA DOCU TRACTOR OMER TNESS ANI	MENTA B: BHE	TION. L / NOM. RIFICATION	USE	APPROVE	D BY	•		

				QUALITY	PLAN	N								Page 2 of 2
	QP NO.	QA_BI_QP_117		REV.	00	00 DESCRIPTION			LEG		ENDS			
BHEI	SPEC. NO.	AS PER PO		REV.	AS PE	AS PER PO NRV W		NRV WITH ALUMINIUM FLAP		P- PERFORMED B		BY 1- BH		L REP
	DRG. NO.	APPROVED DRAWING	AS PER PO	REV.	AS PE	AS PER PO			W- WITNESSED	DBY 2- V		VEN	DOR	
									V- VERIFIED B	RIFIED BY		3- SUBVENDO		
SL. NO	COMPONENT OPERATION	CHARACTERISTICS	CLASSIFI- CATION	TYPE OF CHECK		QUA	NTUM	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGEN P	W W		REMARKS
3.4	SEAT LEAK TEST	LEAKAGE	CRITICAL	HYDRAULIC		100%		ORDERING SPEC. / BHEL APPD. DRG	NO LEAKAGE	TC	2	1*	-	* 10% (MIN. 2 NO.)
3.7	PRESERVATION & PAINTING		MAJOR	VISUAL		100%		BHEL SPEC		IR	2	-	-	

	LEGEND:	FOR	
	! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY	CUSTOMER	
MANUFACTURER/	INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.	USE	APPROVED BY
SUBCONTRACTO	M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM.		
R	INSPECTION AGENCY N: CUSTOMER		
	INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION		
	ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF		
	CUSTOMER		