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सम्मिश्र जांच दल/ Composite Trials Team  
द्वारा नेवी कार्यालय/ c/o Navy Office  
मुख्यालय/ Headquarter  
अन्डमान एवं निकोबार कमान/  
Andaman & Nicobar Command  
पोर्ट ब्लेयर/ Port Blair - 744 102


CTT/300/02/06/TECH

23 May 23

The Commander-in-Chief  
{for CTO (Marine)}  
Headquarters  
Andaman & Nicobar Command  
Port Blair - 744 102

**PERFORMANCE TRIAL OF HPAC NO. 3 – INS KESARI**

1. Refer to HQANC fax ANC/42000/EG/5/4 dated 12 May 23.
2. **Background** Performance trials of HPAC No. 3 onboard INS KESARI was carried out on 16 May 23 by CTT(Pbr). Performance, vibration trials and attenuation checks were undertaken during the trials. Details of the same are placed at **Enclosure**.
3. **Performance trials**. HPAC No.3 was exploited upto one hour. Operating parameters of HPAC No.3 was found within normal operating limits.
4. **Vibration trials**. Vibration trials of HPAC No.3 was undertaken and overall vibration found within limits.
5. **Observation**. Following observed during trial: -
  - (a) Instrumentations cable not secured.
  - (b) Auto cut-in and cut-out not operating as per design.
6. **Recommendations**. Following is recommended: -
  - (a) Liquidation of defects/ observations mentioned at Para 5 ibid.
  - (b) Extension of running hours may be accorded for normal exploitation of HPAC No 3 post liquidation of above observations by SS.

  
(जगन्नाथ गुरुमूर्ति /Jagannath Gurusurthy)  
लेफ्टिनेंट कमांडर / Lieutenant Commander  
प्रभारी अधिकारी/ Officer-in-Charge(AOL)

**Encl:-** As above

**Copy to:-**

The Naval Component Commander  
{for SO (E)}  
c/o Navy Office  
Port Blair – 744 102

The Commanding Officer  
INS Kesari  
c/o Navy Office  
Port Blair-744 102

**PERFORMANCE TRIAL OF HPAC NO.3 - INS KESARI**

- (a) Trial Inspectors : (i) Sarv Jeet Singh, ERA-3  
: (ii) P S Rawat, ERA-4
- (b) Date and Time : 16 May 23 (1100 -1230Hrs)
- (c) Equipment used for Trials : (i) SPM T-30  
(ii) Temperature Gun.
- (d) **Safety device checks.**

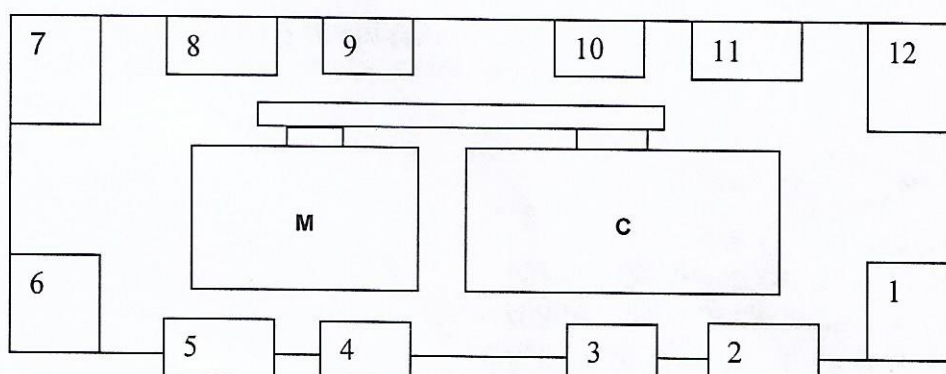
Ser	Description	Unit	Design Value	HPAC No.3
(i)	1 <sup>st</sup> stage Pressure relief valve	Bar	06	06
(ii)	2 <sup>nd</sup> stage Pressure relief valve	Bar	33	33
(iii)	3 <sup>rd</sup> stage Pressure relief valve	Bar	33	33
(iv)	Auto cut off	Bar	30	23
(v)	Auto cut in	Bar	25	20
(vi)	Manual drain	Sat/Unsat		Sat
(vii)	Auto drain	Sat/Unsat		Sat

- (e) **Vibration trials.**

Ser	Description	HPAC NO.3			Remarks (Limit 10 mm/sec)
		V	A	H	
(i)	MFE	5.3	5.0	3.9	Sat
(ii)	MDE	4.0	3.0	2.3	Sat
(iii)	CDE	2.2	2.0	2.0	Sat
(iv)	CFE	1.9	1.0	1.3	Sat

- (f) **Attenuation checks.**

**HPAC NO. 3**





Ser	Position	HPAC NO.3											
		1	2	3	4	5	6	7	8	9	10	11	12
(i)	Top	8.6	6.1	4.3	2.3	1.9	4.4	5.7	3.5	3.2	4.2	3.9	5.0
(ii)	Bottom	0.4	0.4	1.1	0.2	0.3	1.0	1.0	0.2	0.4	1.0	0.4	1.0
(iii)	Attenuation %age (Limit above 70%)	95	93	74	91	84	77	82	94	87	76	89	80
(iv)	Remarks	Sat											