

CTT/300/04/04/TECH (ii)

17 नवम्बर २३/ Nov 23

प्रधान सेनापति/ The Commander-in-Chief
{कृते कमान तकनीकी अधिकारी (समुद्री विद्युत)/ for CTO (ML)}
मुख्यालय/ Headquarters
अन्डमान एवं निकोबार कमान/ Andaman and Nicobar Command
द्वारा नौसेना कार्यालय/ c/o Navy Office
पोर्ट ब्लेयर ७४४ १०२/ Port Blair 744 102

END OF REFIT TRIALS OF FUEL OIL TRANSFER PUMP
INS KARMUK (NR-23)

1. Refer to INS Karmuk Fax NR-23 dated 07 Nov 23.
2. **Background.** Performance, vibration and capacity checks of FOT pump were undertaken on 08 Nov 23. Detailed report placed at **Enclosure**.
3. **Observations.**
 - (a) **Sub-optimal performance** of Fuel Oil Transfer Pump (Capacity achieved 12 TPH against designed capacity of 15 TPH)
 - (b) Both suction & discharge valve handles not fitted.
 - (c) Purging cock not fitted in fuel pump strainer.
 - (d) Bilge plates not secured.
 - (e) SPM checks not offered.
4. **Recommendations.**
 - (a) Liquidation of defects/ observations mentioned at para 3 ibid.
 - (b) Capacity trial to be re-offered.



एस सी विलियम/ S C William)
कमांडर/ Commander
प्रभारी अधिकारी/ Officer-in-Charge

Encl: - As Above

Copy to: -

कोमोडोर अधीक्षक/ The Commodore Superintendent
{कृते उप महाप्रबंधक (मरम्मत)/ for DGM (Refit)}
नौसेना पोत मरम्मत यार्ड/ Naval Ship Repair Yard
द्वारा नौसेना कार्यालय/ c/o Navy Office
पोर्ट ब्लेयर ७४४ १०२/ Port Blair 744 102

कमान अधिकारी/ The Commanding Officer
भा. नौ. पो. कार्मुक/ INS Karmuk
द्वारा नौसेना कार्यालय/ c/o Navy Office
पोर्ट ब्लेयर ७४४ १०२/ Port Blair 744 102

END OF REFIT TRIALS OF FUEL OIL TRANSFER PUMP
INS KARMUK (NR-23)

1. Trial Inspectors : (a) Pankaj Rawat, ERA III
2. Date and Time : 08 Nov 23 (1000-1230 h)
3. Equipment used for trials : (a) SPM T-30
(b) Camera
4. Details of trials are as follows: -

(a) **Performance Trials.**

<u>Ser</u>	<u>Description</u>	<u>Unit</u>	<u>Designed Value</u>	<u>Observed Reading</u>
(i)	Suction pressure	kg/cm ²	-0.4	-0.2
(ii)	Discharge pressure	kg/cm ²	4.0	0.9
(iii)	Starting current	Amps	84	Not Offered
(iv)	Running current	Amps	12.5	
(v)	Insulation	MΩ	≥2	
(vi)	Achieved flow rate	TPH	15	~12

(b) **Capacity trials.**

<u>Ser</u>	<u>Description</u>	<u>Unit</u>	<u>Initial Reading</u>	<u>Final Reading</u>
(i)	Sounding of storage tank No.7	Ltrs	0	14000
(ii)	Sounding of storage tank No.8	Ltrs	16500	2500
(iii)	Quantity transferred	Ltrs	0	14000
(iv)	Time taken to transfer	Hrs	01	
(v)	Capacity	LPH	14000	
(vi)	Capacity	TPH	~12	

$$\text{Capacity} = \frac{\text{Amount of oil transfer in Tons}}{\text{Time taken in hours}}$$

(c) **Vibration trials.**

<u>Ser</u>	<u>Description</u>	<u>V</u>	<u>A</u>	<u>Remarks</u>
(i)	MFE	6.2	5.1	Sat
(ii)	MDE	4.2	4.9	
(iii)	PDE	3.9	3.3	
(iv)	PFE	3.5	2.1	