

दूरभाष: २३०६/ Tele: 2306

सम्मिश्र जांच दल/ Composite Trial Team
द्वारा नौसेना कार्यालय/ c/o Navy Office
मुख्यालय/ Headquarter
अन्डमान एवं निकोबार कमान/
Andaman & Nicobar Command
पोर्ट ब्लेयर ७४४१०२/ Port Blair 744 102

CTT/300/04/04/TECH (iv)

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 AFDS, AFWS, VENTILATION MOTORS, NLCP AND NAV
LIGHTS - INS KARMUK (NR-23)**

1. Refer to INS Karmuk Fax 309/04 dated 06 Nov 23.
2. **Background** Ship vide Fax ibid had offered trials of four systems. Operational checks of AFDS, AFWS and performance checks of ventilation motors were carried out from 08 to 14 Nov 23 by CTT(Pbr). Trials of NLCP and NAV lights system aborted view fresh defect in system. Detailed report placed at **Enclosure**.
3. **Observations.**
 - (a) **AFDS.**
 - (i) 03 / 63 sensors non-ops.
 - (ii) False alarm indication continuously activated in AFDS control panel.
 - (b) **AFWS.**
 - (i) 01 / 42 sensors non-ops.
 - (ii) Junction boxes condition deteriorated and dust accumulated.
 - (c) **Ventilation Motors.**
 - (i) Routines/cleaning of starter panels.
 - (ii) Earthing straps missing in various starter panels.

4. **Recommendations.**

- (a) Liquidation of observations at para 3 above.
- (b) SS to furnish test bench reports of motors fitted in trunking.
- (c) Trials of NLCP and NAV lights to be reoffered post defect rectification.



(एस सी विलियम/ S C William)

कमांडर/ Commander

प्रभारी अधिकारी/ Officer-in-Charge

Encl: - As above

Copy to: -

प्रधान सेनापति/ The Commander-in-Chief
{कृते कमान तकनीकी अधिकारी (समुद्री)/ for CTO (M)}
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पोर्ट ब्लेयर ७४४ १०२/ Port Blair 744 102

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

1. **Ventilation Motors.**

<u>Ser</u>	<u>Motor Description with Rating (kW/ hp)</u>	<u>Status (Ops/ Non Ops)</u>	<u>Insulation (MΩ)</u>	<u>Starting Current (Amps)</u>	<u>Running Current (Amps)</u>	<u>SPM</u>		<u>Defects. If any (including Starters)</u>
						<u>DE</u>	<u>NDE</u>	
(a)	ATU Motor No. 1	OPS	10	42	7.8	11/-4	11/-3	-
(b)	ATU Motor No. 2	OPS	20	95	12.7	11/-3	4/-5	-
(c)	ATU Motor No. 3	OPS	15	28	6.4	12/4	27/15	NDE found in yellow zone.
(d)	ATU Motor No. 4	OPS	10	86	12.3	12/-9	13/-4	-
(e)	HE-01	OPS	∞	9.8	1.8	22/4	18/9	➤ DE found in yellow zone. ➤ Dust observed inside starter panel.
(f)	HE-02	OPS	50	5.2	0.6	19/4	16/-9	-
(g)	HE-03	OPS	∞	11.0	1.7	16/4	18/10	Earthing strap not available in starter panel.
(h)	HE-04	OPS	∞	9.1	2.2	1/-7	6/-3	Motor fitted in trunking. Test bench report furnished by SS.
(j)	HE-05	OPS	15	14.0	4.3	-	-	Motor fitted in trunking. Test bench report not available .
(k)	HE-06	OPS	∞	120	11.8	19/9	11/4	-
(l)	HE-07	OPS	50	9.3	1.4	-	-	Motor fitted in trunking. Test bench report not available .
(m)	HE-08	OPS	50	22	5.2	18/8	20/13	NDE found in nearing yellow zone.

<u>Ser</u>	<u>Motor Description with Rating (kW/ hp)</u>	<u>Status (Ops/ Non Ops)</u>	<u>Insulation (MΩ)</u>	<u>Starting Current (Amps)</u>	<u>Running Current (Amps)</u>	<u>SPM</u>		<u>Defects. If any (including Starters)</u>
						<u>DE</u>	<u>NDE</u>	
(n)	HE-09	OPS	50	1.2	0.7	9/0	13/4	Motor fitted in trunking. Test bench report furnished by SS.
(p)	HE-10	OPS	10	4.6	1.1	-	-	Motor fitted in trunking. Test bench report not available .
(q)	HE-11	OPS	∞	20	2.2	15/4	19/14	-
(r)	HE-12	OPS	10	7.5	1.9	23/6	23/11	DE & NDE found in Yellow zone.
(s)	HE-13	OPS	50	6.6	0.7	16/-5	13/3	-
(t)	HE-14	OPS	∞	9.5	3.4	-	-	Motor fitted in trunking. Test bench report not available .
(u)	HE-15	OPS	10	22.1	4.2	42/28	41/24	<p>➤ DE & NDE found in Red Zone.</p> <p>➤ Earthing strap not available in starter panel.</p> <p>➤ Dust observed inside starter panel.</p>
(v)	HE-16	OPS	11	11.0	1.6	18/8	17/6	-
(w)	HE-17	OPS	12	10.5	2.5	21/2	24/14	DE & NDE found in Yellow Zone.
(x)	HE-18	OPS	08	7.6	1.8	19/11	17/-1	Motor fitted in trunking. Test bench report not available .
(y)	HE-19	OPS	15	8.5	1.7	28/17	17/9	DE found in Yellow Zone.
(z)	HE-20	OPS	08	11.1	2.5	-	-	Motor fitted in trunking. Test bench report not available .

2. **AFDS & AFWS.**

(a)	AFDS(63)	SAT WITH OBS	<p>Details of non-operational sensors:-</p> <ul style="list-style-type: none">➤ 01 heat detector head in MER lower level(C).➤ 01 flame detector in MER upper level(S)➤ 01 multi sensor in RO plant compartment.
(b)	AFWS(42)	SAT WITH OBS	<ul style="list-style-type: none">➤ 01 sensor in AC compartment(S). <p>Junction box rusted/ broken in following compartments:-</p> <ul style="list-style-type: none">➤ AFT DA compartment.➤ AC compartment(S).