

दूरभाष /Tele: 248306

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

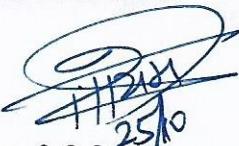
CTT /300/11/02/ENGG

25 Oct 22

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

### PRE – OST CHECKS – INS CHETLAT

1. Refer to the following:-
  - (a) HQANC Fax ANC/42017/EL/07 dated 08 Sep 22.
  - (b) INS Chetlat Fax 300/20/GEN dated 03 Oct 22.
2. Pre-OST checks i.r.o Engineering Equipment of INS Chetlat were undertaken from 18- 20 Oct 22. Checks of Electrical equipment would be undertaken post receipt of in-house trial report from the ship. Detailed report is placed at Enclosure.

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

Encl:- As above

Copy to:-

The Naval Component Commander  
{for SSO (Tech)}  
Headquarters Naval Component  
C/o Navy Office  
Port Blair – 744 102

The Commanding Officer  
INS Chetlat  
c/o Navy Office  
Port Blair – 744 102

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Enclosure to CTT (Pbr) letter  
CTT/300/11/02 dated 25 Oct 22

ENGINEERING PRE-OST CHECK OFF LIST – INS CHETLAT

UNDERTAKEN BY CTT (PBR)

Ser	Check	SAT/ UNSAT/ SAT(WITH OBS)	Remarks
<b>Document Review</b>			
1.	<b>Documentation</b>		
	(a) Main Propulsion Log	SAT	
	(b) Salinity Log	NA	
	(c) Engine Order Log	SAT	
	(d) Sailing Order	SAT	
2.	<b>Test Record of:-</b>		
	(a) Lub oils	UNSAT	Lab report for Sep 22 i.r.o DD HPAC, MD HPAC (P &S) Unsat
	(b) Hydraulic oils	UNSAT	Lab report for Sep 22 i.r.o CWJ, SWJ Unsat
	(c) Coolants	UNSAT	Lab report for Sep 22 i.r.o PME,CME,SME,SDA,CDA Unsat
3.	<b>Load Test records of:-</b>		
	(a) Chain Pulleys	UNSAT	BER. Survey in progress
	(b) Cranes/ Engine Room Traversing Hoists	NA	
	(c) Eyehooks	SAT	
4.	<b>Calibration Reports of:-</b>		
	(a) RO Plant Relief Valves	SAT	
	(b) HPAC Stage Relief Valves	SAT	
	(c) HP Air Cylinder Relief valves	SAT	
	(d) AC and Ref System Relief Valves	SAT (WITH OBS)	Calibration certificate of AC condenser relief valve not held

Ser	Check	SAT/ UNSAT/ SAT(WITH OBS)	Remarks
5.	(e) Lub oil/ coolant test kit	SAT	
	(f) Vib-10/ T-30	SAT	
	(g) Nagman LP calibration kit	SAT	
	(h) Nagman HP calibration kit	SAT	
	(j) Nagman Temperature calibration kit	SAT	
<b>Records of Safety Devices Check:-</b>			
5.	(a) Main propulsion plant	SAT (WITH OBS)	Observations of CTT(PB) brought out vide letter CTT/300/11/02/Tech dated 04 Aug 2022. SS directed to liquidate observations.
	(b) Power Generation Plants	SAT (WITH OBS)	Observation of CTT(PB) brought out vide letter CTT/300/11/02/Tech dated 29 Jul 2022. SS directed to liquidate observations.
	(c) AC and Ref Plants	AC-01 SAT	SDC of AC plant-01 carried out on 04 Aug 22 & found SAT.
		AC-02 NOT OFFERED	SDC of AC plant no.-02 not offered by SS.
6.	(d) HPACs	SAT (WITH OBS)	Observation of CTT(PB) vide para 9 and 10 of letter CTT/300/11/02/Tech dated 05 Aug 2022. SS directed to liquidate observations.
	<b>Machinery and Equipment Status (Individual machinery)</b>		
	(a) Operational Status of Machinery	UNSAT	OPDEF on MCS-05, CDA Load Trials pending
	(b) Routines Due/ Overdue (reason if any)	NIL	
	(c) Limitations in Machinery Performance	YES	OPDEF on MCS-05, CDA Load Trials pending
	(d) Sub-optimal performance and waiver if accorded	NIL	
	(e) Last Trials (Date - Occasion - By Whom)	SR-22	End of Refit Trials by CTT(PBR)
	(f) Status of Instrumentation (Parameters Available/not available)	SAT (WITH OBS)	02 Gauges, 03 thermometers, 01 pressure sensor non-ops
6.	(g) Performance of All Main Engines at Full Power	SAT (WITH OBS)	Last FPT carried out on 12 Aug 21. Refer para 5(a) for observations.

Ser	Check	SAT/ UNSAT/ SAT(WITH OBS)	Remarks
	(h) Remote Operation of Machinery (from different location if provision exists)	SAT (WITH OBS)	02 Blower, 01 FOT pump remote starting from MCR non-ops.
7.	<b>Check off Lists:-</b>		
	(a) Sea and Action de-linked from propulsion preparation	SAT	
	(b) Copies available at each controlling positions	SAT	
	(c) Check off lists in log book format, with signature of person undertaking each serial	UNSAT	Not Held
	<b>Operational Checks of Machinery</b>		
8.	<b>Operational Checks of:-</b>		
	(a) DD Fire pumps	SAT	Flow rate certificate not held.
	(b) AC Plants including SW and CW system and functional trials of Capacity Control Mechanism Crankcase Heater	SAT (WITH OBS)	SDC of AC plant no.-02 not offered by SS.
	(c) Ref Plants including SW system and Auto defrosting system Crankcase Heater	NA	
	(d) FO Centrifuge including Auto mode operation	SAT	
	(e) LO Centrifuge	NA	
	(f) HPAC including Capacity trials	SAT	SDCs carried out on 04 Aug 22. Capacity Trial report not held.
	(g) Drier system functionality checks and Auto condensate drain mechanism trials Auto mode (cut in/ cut out) trials	SAT	
	(h) OWS and Bilge Pumps	SAT	
	(j) Fire Pumps	SAT (WITH OBS)	Attenuation of 07 mounts UNSAT, SW leakage from gauges. Observations vide para 13 of CTT(PB) letter CTT/300/11/02/Tech dated 05 Aug 2022.
	(k) Functional trials of remote operation of system valves	NA	

Ser	Check	SAT/ UNSAT/ SAT(WITH OBS)	Remarks
	(l) Bilge and Ballast Pumps	NA	
	(m) Fuel Stripping Pump and system	NA	
	(n) Cathelco System	NA	
	(p) Emergency/DD compressors	SAT	
	(q) Emergency DAs	SAT	
	(r) Emergency Cooling wherever provisioned	SAT	
	(s) Emergency Steering, if provisioned	NA	
	(t) Machinery Intercoms	SAT	
	(u) Workshop machinery functional trials	SAT	
	(v) SPT	SAT	
	(w) AELs in Machinery Spaces	SAT (WITH OBS)	02 AELs non ops

#### Checks of Emergency Provisions

9.	<b>Display on equipment/ Panels:-</b>		
	(a) Cutout limits	SAT	
	(b) Starting and Stopping procedure	SAT	
	(c) Safe range of operating parameters	SAT	
10.	<b>Emergency Arrangements:-</b>		
	(a) Size of Emergency escape hatches (600 mm dia) and ease of usage	NA	02 Escape hatches available. However not as per standard.
	(b) Escape route marking	UNSAT	Escape markings not present
	(c) AELs	SAT (WITH OBS)	03/11 AELs non ops
	(d) Marking of ladders	UNSAT	Markings not present
	(e) Fluorescent marking of obstructions on emergency walkways/escape routes	UNSAT	Fluorescent markings not present

Ser	Check	SAT/ UNSAT/ SAT(WITH OBS)	Remarks
	(f) Availability of safety nets in all multi-level hatches leading to underwater compartments and their serviceability	NA	
<b>Onboard Rounds</b>			
11..	<b>Checks of Following:-</b>		
	(a) Colour coding of system pipes (IHQ MoD (N) letter EG/Policy/Aux/05/ 2015 of 01 Jun 15)	SAT (WITH OBS)	Colour coding on pipes and flanges not available at multiple locations.
	(b) Maintenance of Rod Gearings including colour coding (Art 0431 of INBR 1835 Vol II and SAQ/E-01/13)	SAT	
	(c) Securing of bilge plates/ grating with 'Dzus' fasteners (Section 12 of NES127)	UNSAT	Bilge plates not secured at multiple locations. Dzus fasteners are not used.
	(d) Securing of HP/ Freon bottles (FOST DESACQ 05/2014 of 12 Dec 14)	SAT	
	(e) Fitment of Machine Guards on machinery (FOST SAQ/ E- 04/13)	SAT (WITH OBS)	OWS pump guard not fitted.
	(f) Astern fuelling requirements (FOST SAQ/E- 02/13, FOST Safety Alert 01/14 of 03 Jan 14)	NA	
	(g) Maintenance and securing of Fuel/ Lub oil manholes/ tank tops including fitment of conical nuts covers (FOST SAQ/E- 03/13}	SAT	
	(h) Checking and maintenance of Salvage Pumps (FOST Safety Alert 06/14 of 27 May 14)	SAT	
	(i) Operation/ running of RIBs on chocks (FOST Safety Alert 01/15 of 06 Feb 15)	SAT	
	(j) Release lines on Relief valves (FOST Safety Alert 05/15 of 19 Nov 15)	SAT	
	(k) Oil and coolant testing organisation (FOST Safety Alert 01/16 of 11 Feb 16)	NA	

Ser	Check	SAT/ UNSAT/ SAT(WITH OBS)	Remarks
	(l) 24 V DC lead lamps are available (IHQ MoD (N) letter EE/Policy/L-01/ POWER-01 of 24 Jan 05)	UNSAT	Not held onboard
	(m) Lagging of Machinery spaces	SAT	
	(n) Handrails on ladders	SAT	
	(p) Guardrails on platforms	SAT	
	(q) Checks of CCTV Cameras	SAT	
	(r) Waterline & other side compartments	SAT	
	(s) Bilge Hygiene of compartments	UNSAT	Water accumulation in both engine rooms
	(t) Hygiene of machinery and equipment	SAT	
	(u) Hygiene of systems, flanges and pipelines	SAT (WITH OBS)	Flanges not fitted with rubber inserts in multiple locations.
	(v) Sea water leakages	SAT (WITH OBS)	Minor leakages in Stbd DA, Port DA, Fire pump no 1&2, Salvage pump no 1 and AC Condenser no. 1. Observations vide para 4,5,13&14 of CTT(PB) letter CTT/300/11/02/Tech dated 05 Aug 2022
	(w) Oil/ fuel leakages	SAT (WITH OBS)	Minor leakages in all three DAs. Observations vide para 4,5&6 of CTT(PB) letter CTT/300/11/02/Tech dated 05 Aug 2022
	(x) State of maintenance and preservation of Sea tubes, overboard pipes and valves	SAT	
	(y) State of pipe brackets	SAT (WITH OBS)	Clamps missing multiple locations.
	(z) Intactness of ventilation trunking	SAT	
	(aa) Status of lighting	SAT	
	(bb) State of bilge lighting (including spark proof build)	UNSAT	Bilge lighting not available.
	(cc) Fuel tank sounding tube and breather pipes	SAT	
	(dd) Tank level indication and flow meters	UNSAT	Non-ops view MCS-05 OPDEF
	(ee) Machinery compartment illumination (by Lux Meter), noise levels (by Sound Power Meter) and ventilation (by airflow meter) iaw NES.	NA	

Ser	Check	SAT/ UNSAT/ SAT(WITH OBS)	Remarks
	(ff) Audit of split/ Marine AC iaw IHQ/ DME/ EG/ 4001/AUX/02 of 16 Oct 14.	NA	
12.	<b>Organisation Checks:-</b>		
	(a) All orgs as per check off list	SAT	
	(b) Tag Out/ Tag In organisation (FOST Safety Alert 07/14 of 06 Jun 14)	SAT	
13.	<b>Test Equipment/ Kits:-</b>		
	(a) All orgs as per org check off list	UNSAT	No organisation formed
	(b) Lub oil — Viscosity and water content	SAT	
	(c) Coolant	SAT	
	(d) Salinity	NA	
	(e) Vib-10/ T-30	SAT	
	(f) Nagman Pressure calibration kit (HP and LP)	SAT	
	(g) Nagman Temperature calibration kit	SAT	
14.	<b>SPTA Stores:-</b>		
	(a) Metallic Boxes	SAT	
	(b) No wooden boxes, cartons or combustibles	SAT	
	(c) No POL/ chemicals	SAT	
	(d) Ventilation	SAT	
	(e) SPTA box key organisation	SAT	
	(f) Validity of Coolant and RO Plant cleaners onboard	SAT	
	(g) Status of D787 Updation	UNSAT	In progress
	<b>Hazardous Spaces</b>		
15.	<b>AVCAT Stowage:-</b>		
	(a) Lighting (spark proof)	NA	
	(b) Ventilation:-	NA	
	(c) 12 air changes in an hour	NA	
	(d) Dedicated supply fan if inside citadel	NA	

Ser	Check	SAT/ UNSAT/ SAT(WITH OBS)	Remarks
	(e) If shared vent trunking, fire flaps for the compartment	NA	
	(f) Fan/ pump motors to be fire and explosion proof within compartment	NA	
16.	<b>POL Stowage:-</b>		
	(a) Separated from SPTA	SAT	
	(b) Ventilation arrangements (NES 102 Part I)	SAT	
	(c) Lighting is flash proof	SAT	
	(d) Manual FF systems available	SAT	
	<b>FF System</b>		
17.	<b>Check Following:-</b>		
	(a) Relief valve on manifold with release carried to atmosphere	SAT (WITH OBS)	Relief line found corroded
	(b) Manifold pressure gauge	SAT (WITH OBS)	Calibration certificate not held.
	(c) Time delay for operation	SAT	
	(d) Audio visual alarm	SAT	
	(e) Auto closure of ventilation blower and flaps	SAT	
	(f) Provision for remote operation	SAT	
	(g) Control supply for remote operation	SAT	
	(h) Supply backup	SAT	
	(i) Gastight construction of FFF system cylinder stowage	SAT	
	(k) FITs if fitted	SAT	
	(l) Ladder/ bulkhead sprinkling if fitted	NA	
	(m) Ventilation of FFF system cylinder stowage	SAT	
	(n) Location of FFF system cylinder stowage	SAT	
18.	<b>Dewatering Arrangements:</b>		
	(a) Functional Trials of Salvage Pumps	SAT	
	(b) Functional Trials of Bilge/ De-Watering Pumps	SAT	

Ser	Check	SAT/ UNSAT/ SAT(WITH OBS)	Remarks
	(c) Flow rate checks of submersible pumps and DD fire pumps iaw FOST Safety Alert 03/ 16	SAT	
	(d) Fixed Eductors	SAT	
19.	<b>Portable 20 and 40 TPH Submersible Pumps and 37 TPH Emergency DD Pump iaw FOST Safety Alert 03/ 16:-</b>	SAT	
	(a) Checks of portable 20 and 40 TPH Submersible Pumps	SAT	
	(b) Checks 37 TPH Emergency DD Pump	SAT (WITH OBS)	Flow rate certificate for DD pump not held.
20.	<b>Miscellaneous</b>		
	(a) System ON indication lamp in bridge panel for CO2 system found non-ops.		
	(b) 02 CO2 release key box in bridge broken and 01 CO2 release key box in CO2 compartment broken.		