

GENERAL MAINTENANCE INSTRUCTION NO: 28

PREMATURE FAILURE- VEHICLES / EQUIPMENT

1. This instruction lays down the procedure for submission of premature failure report on Vehicle/Equipment.

2. **PREMATURE FAILURE MAY BE ATTRIBUTED TO:-**

- a) Operating condition as prevailing in the project areas.
- b) Improper maintenance by the units.
- c) Negligence on the part of operation/user unit.
- d) Poor quality of overhaul at base workshop.

3. **INITIATION OF PREMATURE FAILURE REPORT.**

Premature failure reports will be initiated in every case where the fails before completion of 75% of the laid down life serve the following purposes:-

- a) The exact cause of failure can be pin pointed.
- b) The loss due to negligence on the part of operator/user unit and improper maintenance can be regulated
- c) Remedial measures to avoid such failure can be suggested by technical authorities.
- d) Maintenance of units can be improved.
- e) Base workshop can be initiated to enforce better quality control measure during overhaul.

4. Failure due to faulty design or bad workmanship during manufacture will not be dealt with under this instruction. In respect of such failures defect report as per GMI No 9 will be initiated.

5. The responsibility for initiating a premature failure report rests with the Officer Commanding Fd WKSP maintaining the equipment and will be initiated on the form attached at Appendix 'A' as soon as any case of premature failure is brought to this notice.

6. Premature failure which do not involve downgraded of an equipment to class 'C' or 'D' the investigation will be finalized at project HQ based on information contained in the premature failure reports. All other cases of premature failure where down gradation to class 'C' or 'D' is involved will be investigated by a board of officers. The Board of officers will include at least

one member from Fd WKSP and one member from the unit to which equipment belongs and will be ordered by the chief engineer on receipt of premature failure report from OC Fd wksp.

PROCEDURE FOR SUBMISSION OF PREMATURE FAILURE REPORTS.

7. Premature failure report with accurate and relevant details will be prepared on the form attached at Appendix 'A' and will be submitted to SO1 EME at Project HQ through Task force Commander. Number of copies required the premature fail report will depend upon the cause of failure.

8. Premature failure report not involving down gradation of equipment to class 'C' or 'D' will be investigated at Project HQ and suitable remedial measure if any will be suggested for prevention of such failure. All such cases will be finalized by Project HQ and loss if any will be regularized by the unit as directed by Project HQ.

9. In respect of premature failure report involving down gradation of equipment to class 'C' or 'D', a board of Officers will be ordered by project HQ to investigate the exact cause of premature failure, assess the damage to equipment and pin point the responsibility for regularizing the loss. Board Proceeding along with the premature failure reports will there is submitted to project HQ. Following action will be taken at project HQ.

- a) When the failure is attributed to improper maintenance, negligence of the operator or user unit or due service operating condition the failure will be further investigated and remedial if any will be suggested for prevention of such failure in future. All such cases will be finalized by project HQ under intimation this HQ and loss if any will regularized by the unit concerned as directed by Project HQ.
- b) When the premature failure is attributed to bad workmanship and poor quality of overhaul in GREF Base workshop, additional copies of premature failure will be prepared and distributed as under.
 - i) DGBR (E4/Tech) -- One Copy
 - ii) Base Workshop concerned -- One Copy
 - iii) Project HQ -- Three Copies
 - iv) Dependent Field work shop -- One Copy
 - v) Unit concerned -- One Copy

- c) SO1 EME at Project HQ will arrange for the inspection of the equipment and forward one copy of the premature failure report along with the copy of Board proceeding with these remarks to HQ DGBR (E4/Tech) and base workshop. The remarks will include the following.
 - i) Cause of defect/malfunctioning/unsatisfactory functioning.
 - ii) Can the defect be rectified by the dependent Field workshop by undertaking extend repairs.
 - iii) Are all spares for the repair available from the resources of the Project? If any, spares required or not available part No, Nomenclature and quantity of each required, will be mentioned.
 - iv) Are further investigation necessary? If the answer is in the affirmative, recommendation will be made if detailed investigation can be completed by the representative from the Base workshop or evacuation to the base work shop will be necessary.
- 10. On receipt of premature failure report and Board proceeding form the Project, commander, Base workshop will endorse his commends on the premature failure report and forward the same to HQ DGBR (E4/Tech)
- 11. After receipt of the commends from SO1 EME & commander Base workshop, if it is felt that further investigation is essential, a fresh board will be ordered by HQ DGBR with at least one member from the concerned Base workshop and Project. Board may ask the unit to evacuate the equipment to the Base workshop for investigation and repair and submit its proceeding to HQ DGBR. The responsibility to regularize the loss where it is established by the Board that the premature failure is due to poor workmanship or poor quality of overhaul will be that of the base workshop concerned.
- 12. This supersedes all previous instruction on the subject.

PREMATURE FAILURE REPORT: VEHS/EQPTS

GMI NO 28

INITIATED BY _____

EQUIPMENT OVERHAULED BY _____

- 1 Equipment EM/BA No :
- 2 Make & Type :
- 3 Year of introduction :
- 4 Holding unit and Project :
- 5 Date of overhaul (if applicable) :
- 6 Date received in Project :
- 7 Kms/Hrs completed before overhaul :
- 8 Kms/Hrs completed after overhaul :
- 9 Total Kms/Hrs completed :
- 10 Assembly affected and defect/description of :
improper functioning.
- 11 Date defect noticed :
- 12 Kms/Hrs completed on date defect was :
first noticed
- 13 How many times has the equipment :
reported to field repair work shop after
overhaul
- 14 Was the defect/improper functioning :
repaired by the field repair work shop?
(Refer Para 13 above). If so, how many
times and at what Kms/Hrs
- 15 How where the following executed :
 - i) Weekly and Monthly maintenance Regular/irregular
 - ii) Oil changes -do-
 - iii) Filter change -do-
- 16 How many times was the machine stripped :
to assemblies for transporting?

- 17 Were the affected assembled stripped :
- i) for investigating the defective Yes/No
 - ii) for repairing any other defective Yes/No
- 18 Operating condition (comments on terrain & altitude) :
- 19 Opinion of OC field work shop as to the case of failure. (If the failure due to operating condition, improper maintenance or negligence on the part of the operator comments of the OC unit & Task Force commander will be indicated in Para 20 & 21) :
- 20 Comments of OC unit :
- 21 Comments of Task Force commander :
- 22 Finding of the Board of Officers as to exact case of failure (When the failure involves down gradation to class 'C' or 'D') :
- 23 Comments of SO1 (EME) of Project HQ :
- a) Comment on information provided by the initiator: -
 - i) Description of the defect
 - ii) Maintenance
 - iii) Are all materials evidence which will help investigation available
 - b) Causes of defective /malfunctioning /unsatisfactory functioning (use separate sheet if necessary)
 - c) Can the defect be set right by the dependent field repair workshop?
 - d) Are all spares for the repairs available from the resources of the project? If not, Part No, nomenclature and quantity of which required (use separate sheet if necessary)
 - e) Have the not available spares been

demanded on the stores Division concerned? (Quote demand details and the store division control Number details)

f) Is further investigation recommended?

i) At Project by a representative from Base workshop.

ii) By evacuating the equipment to Base workshop

g) How can the occurrence of the defective be arrested in future?

24 Comments of Base Commanders (Only :
when the premature failure report is sent
to Base work shop for comments)

25 Orders by HQ DGBG. :

Note: - The columns will be re spaced as per requirements.