

SECTION-III

TECHNICAL SPECIFICATION FOR PURCHASE OF TORCH CHARGEABLE LED TYPE AGAINST TN-2664.

3.01 SCOPE

This specification covers the manufacture, testing before dispatch and delivery at our stores/site of the LED Torch using maintenance free rechargeable battery.

3.02 SCHEDULE OF TECHNICAL SPECIFICATION.

LED Torch shall be manufactured and tested in accordance with the following specification / standard.

3.03 SCHEDULE OF REQUIREMENT

The approximate requirement of LED Torch using maintenance free rechargeable battery is **6,100 Nos.** This requirement is tentative and the purchaser may increase/decrease the net quantity to be purchased at the time of deciding the tender.

TECHNICAL FEATURES & SPECIFICATIONS

The LED Torch using maintenance free rechargeable battery shall be having the following technical features:

- Fitted With 6V Maintenance Free SLA Battery
- 3 Watt Power LED
- Bright Light Throughout Lighting Time Using Constance Current Source
- Normal And Full Light
- SMPS Circuit-Input Range 100-280V
- Fast Charging Input 8-9 Hours
- Over Charging And Over Discharge Protection

LIGHTING TIME	3W MODEL
NORMAL LIGHT	22 HOURS
FULL LIGHT	11 HOURS

The bidder may offer better design of LED Torch using rechargeable battery. However, in that case complete technical justification shall be required to be furnished by the bidder other wise the offer shall be treated as incomplete.

3.04 GUARANTEED TECHNICAL & OTHER PARTICULARS:

The tenderer shall furnish complete guaranteed and other particulars of material offered by him as per Schedule-V.

3.05 SAMPLES:

Bidders are required to furnish One No. sample of tendered item along with dimensional drawing indicating all dimensions and weight meeting requirement of technical specification along with their Bid, failing which their bid is liable to be rejected. The sample shall be checked thereafter for visual examination and checking/ verification of dimensions, weight etc. as per specification / GTP / Drawing at CTL.

3.06 INSPECTION & TESTING:

Inspection & testing shall be as per relevant IS/GTP'S of PO. The inspecting officer shall select 5% samples randomly from the offered lot for physical verification and inspection as per specification and purchase order.

The suppliers should satisfy themselves that the material is in accordance with the terms of the contract and fully confirm to required specifications by carrying out a through pre-inspection of each quota before tending the same for inspection to the inspecting officer nominated by the purchaser. Such pre-inspection on the part of the suppliers would minimize the chances of rejection in inspection.

The material shall be tested and inspected by an authorized inspecting officer of the purchaser before dispatch. The purchaser reserves the right to get the material tested in any testing laboratory before dispatch.

3.06 PREFERENCE:

The offers of standard make and directly from the manufacturers/traders quoting shorter delivery period shall be preferred.

3.07 DEPARTURE FROM SPECIFICATION:

Should the tenderer wish to depart from the specification in any respect, he should clearly state such departures indicating the reasons thereof. Unless this is done, the departmental specification will hold good and shall be binding on the supplier unless the departures have been approved in writing by the purchaser.

3.08 TENDERS:

Tenderer shall furnish complete particulars of the material offered by them in regard to this specification and submit the same with their tender in single copy. Failure to do so or any incomplete entry therein may prevent a tender from being considered.

3.09 GENERAL

The tenders received without complete details required as per enclosed forms/schedules are liable to be rejected.

3.10 ADDITIONAL ORDER

Repeat orders for additional quantities, upto 50% of original ordered quantities, may be placed by the Nigam, on the same rates, terms and conditions given in the contract.

3.11 QUALITY ASSURANCE PLAN :

- 1) The Bidder shall invariably furnish following information along with his offer, failing which the offer shall be liable for rejection. Information shall be separately given for individual type of equipment offered.
 - i) Statement giving list of important raw materials, names of sub-suppliers for the raw materials, list of standards according to which the raw material are tested, list of tests normally carried out on raw material in the presence of Supplier's representative, copies of test certificates.
 - ii) Information and copies of test certificates as in (i) above in respect of bought out items.
 - iii) List of manufacturing facilities available.
 - iv) Level of automation achieved and list of areas where manual processing exists.
 - v) List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such tests and inspections.
 - vi) Special features provided in the equipment to make it maintenance free.
 - vii) The bidder should have adequate facilities to carryout accurately all required tests during manufacturing and routine/acceptance tests as per relevant ISS/IEC standards at the final end routine/acceptance. The supplier will ensure that all testing/measuring instruments/apparatus are calibrated at regular periodicity from reputed test house as per relevant standards and a certificate of testing authority is made available to purchaser's inspector at the time of inspection. Such calibration

certificates, in any case shall not be older than one year on the date of such tests".

- viii) List of testing instruments and apparatus along with their last date of calibration, available with the Bidder for testing of equipment specified and test plant limitation, if any, vis-a-vis the type, special, acceptance and routine tests testing during manufacture specified in the relevant standards. These limitations shall be very clearly brought out in "Schedule of Deviations".
- 2) The Supplier shall also submit the following information to the Purchaser, along with drawings/GTPs/BOM of ordered material, within 15 days of placement of order for purchaser's approval:-**
- i) Name of the raw material as well as bought out accessories and the names of sub-suppliers selected from those furnished along with the offer.
 - ii) Type test certificates of the raw material and bought out accessories/items.
 - iii) Quality Assurance Plan (QAP) withhold points for Purchaser's inspection. The QAP and Purchaser's hold points shall be discussed between the Purchaser and the Supplier before the QAP is finalized.
- 3) The Supplier shall submit the routine test certificates of bought out items and raw material at the time of routine testing of the fully assembled equipment.

3.12 Purchasing on the Risk & cost of supplier, in case of non-execution of order/delay in delivery.

As per field requirement, as it is, material (s) / equipment (s) is /are urgently required to Nigam and for which final notice has been given to supplier but supplier is being breach of agreement against stipulated delivery schedule, if at any time during the currency of the contract, the performance in whole or in part be prevented or delayed by more than the three months of the delivery schedule, the purchaser reserves the right to procure the material/equipment on order or part thereof from any other source at the risk and cost of the contractor/ supplier.
