

Response to RFP Pre-Bid Queries_Part-1 RFP No: NSIL/ RFP/ MSS/ BAT/ 2024/ 01 dated 29 Oct 2024 for Supply, Installation and Commissioning of Rechargeable Lithiumlon Battery for MSS Terminals (Xponders) in Marine Fishing Vessels

SN.	RFP Volume and Section	Page No.	Content in the RFP	Proposed Content	Clarification for Request Change	NSIL Response/Clarification
1	2.1 General Requirements	92	Battery Management System (BMS) needs to be in-built (housed within the battery envelope). It needs to monitor battery voltage, cell voltage, cell temperatures. It should provide state of charge indicator as LED display and indicate full discharge corresponding to 20% SoC and full charge corresponding to 90% SoC. It should have mechanism to cut off battery on over charge or over discharge or over temperature. It should indicate the alarm conditions by sound and warning light.		Require only LED light or LED display	LED Light (flashing LED may be considered)
2	i. Battery recharging connector	98	The live and return line pairs and size shall be decided by the Bidder/Vendor in accordance with charge current specifications of the battery. The wires of the charging cable shall be appropriately derated.		Require Charge & discharge common port or seprate port for Charge- Discharge	Separate ports for charge and discharge
3	3.4 Reliability	103	All materials used in the manufacturing of the battery shall be of proven heritage/ Certificate of Conformance (CoC) in marine environment. The battery shall be designed to have very high reliability when used in marine environment for the duration and type of application specified in section 2.2. All batteries delivered shall be identical in all respects. They shall be of uniform quality and manufactured out of materials procured from same Bidder/Vendors.	Certificate of Conformance (CoC) in marine environment :	Certificate of Conformance (CoC) in marine environment :- From Where & How we have to apply for this	CoCs for the marine environmentare solicited from perspective of the materials atthat shall be used for the battery manufacturing. Supplier for such materials may provide. In case it is not possible, as indicated in the clause itself, the materials shall have proven heritage of their usage in the marine environment. Such heritages shall be clearly indicated by the bidder.
4	3.4 Reliability	103	Bidder/Vendor shall provide reliability analysis document.			RFP terms Prevail
5	3.4.1 Electrical, Electronic, and Electromechanical Parts Stress Analysis	103	Bidder/Vendor shall provide necessary documentation.			RFP terms Prevail
6	3.4.1 Electrical, Electronic, and Electromechanical Parts Stress Analysis	103	Bidder/Vendor shall provide evidence either by test or by analysis that the battery designed will meet the life requirement of 5 years in MSS Xponder after 1 year storage on-ground.		What documents require for this.	Documented proofs on the evidence viz. test results or applicable analyses
7	3.3. Eligibility Criteria	20	The Bidder shall have minimum 2 years of experience during the last 5 years in execution of the contracts for the supply of the rechargeable Li-ion batteries or any electronic system with rechargeable Li-ion batteries operating in marine environment of project value of minimum INR 10 Cr.	The Bidder shall have minimum 2 years of experience during the last 5 years in execution of the contracts for the supply of the rechargeable Li-ion batteries or any electronic system with rechargeable Li-ion batteries of project value of minimum INR 10 Cr.	May kindly remove Marine Environment experience to help Healthy Bidding	RFP terms Prevail However, If Vendor has suitable experience as per RFP may quote.
8	2.3.4 Screening and matching of cells	95	Each cell selected for battery fabrication shall be screened for the following aspects: •Visual inspection of the cell at 10X magnification		May kindly elaborate about Inspection process 10X magnification	Cells selected for the battery manufacturing shall be subjected to visual inspection under 10X magnification to conform to the test specifications as highlighted in the RFP. The rejection criteria for the cells failing to pass the visual test is also stated therein.
9	6.2 Payment Schedule	115	15% payment withheld for period of Three (03) Years		Please consider to release against 15% PBG (As 10% already submitting so it can be 15%)	RFP Terms Prevail
10	Volume II, Chapter 2,Table 2.1	93	Battery operating voltage range: 12 V to 24 V	Battery voltage mentioned at 12 to 24V DC, capacity 12 AH minimum,However, section 2.2 mentioned about using 6S configuration of Li-ion battery. with this, we will get 22.2V nominal (3.7V nominal cell voltage of Li-ion battery).	Please confirm.	Sufficient, as same is within specified range

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11	Volume II, Chapter 2, Table 2.1	93	Total load in Xponder: 15W peak/ 40Wh	40 Wh mentioned (assumed for 24 hrs), to achieve 72 hrs backup, 10AH will suffice the requirement instead of 12AH	Please confirm	12 Ah or above, as per RFP specifications
12	Volume II, Chapter 2, Table 2.1	94	Operational Life: 5 Years	Operational life mentioned as 5 years, this depends on number of charge /discharge cycles	Please confirm the same.	As per the RFP, The Supplied Batteries should Support for 5 Years(2 years warranty & 3 years extended warranty)
13	Volume II, Chapter 2, Section 9.1	127	Calendar Life Test (CLT)	Duration of Calendar Life tests (CLT) are mentioned for 1 year. Delivery of batteries will be completed by the time these tests are completed. However, Section 3.4.1, page 103 mentions about compliance for operational life either by test or by analysis.	Please confirm.	CLT tests shall be conducted on the number of samples of cells/battery as highlighted in the RFP section. They shall be running for the specified duration as per the stated procedure even after delivery and commissioning of the batteries. The results shall be documented up on its completion and submitted at later stage.
14	Volume II, Chapter 6, Section 6.2	113	Payment Schedule, Sl. No. 2	5% payment is against submission of advance bank guarantee?	Please confirm.	No Advance Bank Guarantee(ABG), only 5 % Performance Bank Guarantee(PBG) is Applicable
15	Volume I, Chapter 7, Section 7.12	70	Format for financial bid	Provision to quote for Supply, Installation, 2 years warranty and 3 years extended warranty costs separately.	Please confirm.	RFP Terms Prevail
16	Volume II, Chapter 6, Section 6.2 Table 6.2	114	Payment Schedule	(a) Supplies: 100% against delivery on prorate basis (b) I&C: 100% after completion of I&C on prorate basis (c) Warranty: Half-Yearly basis, 100% after completion of 06 months warranty	Please confirm.	a) RFP Terms Prevail b) RFP Terms Prevail c) RFP Terms Prevail
17	Volume III, Chapter 2, Section 2.2	123	Liquidated Damages	Provisioning of the boats for I&C is the responsibility of the buyer. If I&C is delayed due to non-availability of the boats, LD should not be levied on supplier.	Please Confirm	RFP terms prevail. Note: NSIL/Authority will ensure the availability boats for the installation. Delay not attributed to Vendor will not be considered for LD.

General Pre-Bid Queries -RFP No: NSIL/ RFP/ MSS/ BAT/ 2024/ 01 dated 29 Oct 2024		
SN	Proposed Clarification Content	NSIL Response/Clarification
1	IEC 6180 (EMI), IEC 62133-2, IEC 62619 certifications are mentioned. We assume that CoC for these standards will be sufficient and Cell / Batteries are to be qualified as per test plan mentioned in the document as per annexure II. Please Confirm	Yes
2	Please confirm Battery chemistry of Li-ion cylindrical cell or Li-ion Poly flat pack are acceptable which meets overall specifications.	Battery chemistry shall be LFP