

NMRL-136 black & white paint for submarine rubber tiles (NMRL-136 BWP)

Novel specialty paints are developed by NMRL for protection of rubber tiles of submarines. This paint has been developed in black and white shades. It is a single coat system for direct application on rubber substrate.

The essential ingredients of this paint are elastomeric polymer, pigments, solvents, and specialty additives. Specialty additives in the paint formulation provide superior adhesion, thixotropicity, wetting, dispersion and defoaming properties. This paint can be prepared using ball mill and high speed disperser. The paint can be applied using brush/rollers and dries to form a hard and tough barrier coating to protect the rubber tiles from seawater as well as weathering.

Salient features of coating

- Adhesion on rubber tiles
- Direct application on rubber tiles
- Weather resistance
- Resistant to water, alkali and oil
- Excellent flexibility and impact strength

Interested Industries are requested to forward their Expression of Interest (EOI) to Director NMRL, Ambarnath (with attachments of supporting documents) with a copy to Director DIITM, DRDO HQ (without attachment) on following address:-

To,
Director
Naval Materials Research Laboratory (NMRL)
DRDO, Ministry of Defence, Government of India
PO Anand Nagar
Ambarnath (East)-421506
Phone : 0251-2623131
Fax : 0251-2623004

E-mail ID : [director\[dot\]nmr\[at\]gov\[dot\]in](mailto:director[nmr[at]gov[dot]in)

Copy to

Director
Directorate of Industry Interface & Technology Management (DIITM)

Room No. 447, DRDO Bhawan, DRDO HQrs, Rajaji Marg, New Delhi-110011
Phone: 011-23013209/23015291
Fax: 011-23793008

Email: [diitm\[dot\]hqr\[at\]gov\[dot\]in](mailto:diitm[dot]hqr[at]gov[dot]in)

List of Support documents to be attached with EoI

- a) Memorandum and Articles of Association (Should be incorporated as per Indian Companies Act, as amended time to time)
- b) Certificates of registration as a manufacturing unit, if any.
- c) Audited Balance Sheet for the preceding three years.
- d) Income Tax returns for the preceding three year period.
- e) Details of shareholding/ ownership pattern especially foreign partners/ shareholders, foreign employees, directors, etc. The company must adhere to the prevailing Govt of India policies and regulations on Foreign Direct Investment (FDI)/DIPP norms as applicable.
- f) Annual budget for R&D during last three years.
- g) Numbers and details of IPR or patents, etc., held by the company.
- h) Number of technically or professionally qualified personnel.
- i) Record of past performance (e.g., Supply orders executed against of Ministry of Defence orders, Public Sectors and Paramilitary Forces, if any).
- j) Availability of adequate infrastructure (List of machines and their production capacities) and technical expertise.
- k) List of Testing and Support equipment's
- l) ISO/ ISI certification or any other certification
- m) Relevant clearances from the authorities/ ministries (if any)
- n) Capacity and capability to undertake developmental work and to accept attendant financial and commercial risks.
- o) Capacity/capability to market the product through the marketing network, sales and service network, reliability to maintain confidentiality.
- p) PESO and DPIIT license for explosive handling if ToT is for high energy Material, explosives, propellants, and component/ system dealing with it etc (if applicable).
- q) Undertaking from company seeking ToT that none of its Directors, Independent Directors, non-executive Directors, Key management personnel are involved in any corrupt practices, unfair means and illegal activities.
- r) Details of the industrials license for defence manufacturing be provided by the industry seeking ToTs.