

PORTABLE HELIPAD : COMBAT ENGINEERS DIRECTORATE

1. **Mission Need.**
 - (a) Construction of Helipads, particularly in an operationally constrained timeframe.
 - (b) Size varying from 25m x 25m to 100m x 100m.
2. **How Mission Currently Undertaken.**
 - (a) Helipad membrane & ATW(Assault Track Way) Class -12 & 30.
 - (b) **Limitations.**
 - (i) Membrane used for smaller size hepters only.
 - (ii) ATW - heavy weight & transport requirement, difficulties - handling & camouflage, manpower intensive.
3. **Solution Proposed.** Development of helipad with latest technology material to overcome the present limitations.
4. **Key Technologies Involved.**
 - (a) Technological advancement in material science.
 - (b) Material using Polymers/ Composites/ Alloys.
5. **Broad Functional Requirements.**
 - (a) Basic set size of 25m x 25m.
 - (b) Modularity - to be able to join one/ more sets.
 - (c) Light weight with significant strength.
 - (d) Operating temperature ranges of (-) 20°C to 55°C.
 - (e) Coloured/ pigmented for camouflage.
 - (f) Absorb high impacts & point loads.
 - (g) Withstand downwash of all in-service hepters.
 - (h) Corrosion resistance.
 - (i) Man portable in parts.
 - (k) Ease of vehicle transportability.
6. **Tentative Quantity.** Initially 50 sets & approximately 10 sets per year for five years.
7. **Broad Timelines.** As per DPP 2016.
8. **Assistance During Design & Development (D&D) Phase.**
 - (a) Close interaction during development.
 - (b) UATW (Upgraded Assault Track Way) Project already under progress as MAKE-II.
9. **Contact Details of Project Officer.**

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