***Annexure-III***

**PROPOSED GREEN WAREHOUSE PROJECT IN MATTANCHERRY WHARF AT COCHIN PORT [PHASE-I]**

**GREEN MEASURES:**

1. Plant more than 25 tree saplings per acre
2. Use of high SRI roofing materials to minimise heat island effect
3. Provision of pedestrian network
4. Design of dock levelers in line with the specifications outlined in the EN 1398: 2009 -
5. Dock Levellers Safety Requirements or equivalent
6. Install automated access controls, including but not limited to, boom barriers, security ollards, RFID based systems and cloud-based applications for vehicular movement
7. Install e-charging stations for 20% of the total parking capacity (4 & 2 Wheeler)
8. Use electric powered vehicles to cater to 100% of the material handling, excluding hand operated vehicles, in the warehouse(s) for indoor operations
9. Install Solar panels.
10. Use of Internet of things(IoI) in Warehouse Management.
11. Automated and compact storage system.
12. Use of high volume Low speed (HVLS) fans.
13. Rain Water Harvesting.
14. Recycling plant for waste materials generated from the warehouse.
15. Install Warehouse Management System (WMS) integrated with Enterprise Resource Planning (ERP) software and Transport Management System (TMS)
16. Carryout green education activities/ programmes, to increase awareness on eco friendly practices to the warehouse/ building occupants and visitors
17. Use of Cleaner fuel for Service Vehicles – Electric, Biofuels
18. Road fleet complying with BS IV or latest emissions norms
19. Design & construct energy efficient warehouse envelope – Roof, Wall, Glass, Skylight
20. Install lighting controls such as timer control, daylight sensor, occupancy sensor
21. Install energy efficient Pumps & Motors that are IE3 class or BEE 5 star rated for domestic and sewage water supply
22. Install DG sets that are BEE 5 Star rated or having Specific Fuel Consumption (SFC) less than 220 g/kWh
23. Install efficient distribution transformers
24. Install energy meters for major energy consuming applications
25. Use water efficient plumbing fixtures to reduce potable water demand
26. Install highly efficient irrigation systems
27. On-site waste treatment system and reuse of treated waste water for landscaping &flushing
28. Install water meters for major water consuming applications
29. Source CII-Green Pro eco-labelled (or) any other Eco-labelled (Type-I/ ISO 14024tested & verified) products, materials & equipment for warehouse/ building construction and operations
30. Install an on-site waste treatment system for handling organic (food and garden)waste generated in the project
31. Provide basic amenities for Staff & Drivers.

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