Weekly Monitoring Report

Mangrove Restoration Project - Abu Ali Island & Adjacent Areas

Phase 1: 5 Million Mangroves (of 90 Million Total Contract)

1. Report Information

Report Week No.	Week 6
Reporting Period	01 February 2026 - 07 February 2026
Report Date	07/02/2026
Prepared By	Albadhour Alhayya agriculture est.
Reviewed By	Albadhour Alhayya agriculture est. & Client
Site Location(s)	Abu Ali plantation sites

2. Phase 1 Progress Tracker (5 million Target)

Milestone	Target	Actual	% Complete
Total Mangroves Planted (Cumulative)	5,000,000	5,000,000	100.0%
Surviving Mangroves (Post 3-Month)	4,500,000 (90%)	4,500,000	90.0%
Area Planted (hectares)	500 hectares	500 hectares	100.0%

Phase 1 Completion Status:

5MM plantation completed

3. Phase Milestone Summary

Milestone	Target Date	Actual Date	Status	Variance
Pre-Restoration Site Evaluation Complete	05 October	08 October	complete	3 Days
Nursery Infrastructure Established	01 October	08 October	complete	7 Days
1M Mangroves Planted (20%)	15 November	15 November	complete	18 Days
2.5M Mangroves Planted (50%)	29 November	29 November	complete	30 Days
5M Mangroves Planted (100%)	22 December	22 December	complete	85 Days
3-Month Survival Monitoring Complete	22/03/2026	On Track	On Track	90 Days

4. Executive Summary

During the reporting week, routine monitoring identified localized mortality primarily associated with tidal scouring and debris accumulation. Replacement of dead mangrove seedlings was carried out in Abu Ali Site in accordance with Schedule B requirements, maintaining an overall survival rate of approximately 90%. No major risks to plantation success were identified.

5. Weekly Plantation Progress

5.1 Planting Statistics

Metric	This Week	Cumulative
Number of Mangroves Planted	907,200	3,620,400
Area Covered (hectares)	≈ 97 ha	≈ 363.0 ha
Seedlings Transferred from Nursery	80,000	1280,000
Seeds Collected & Transferred to Nursery	45,000	605,000
Seeds Successfully Germinated	50,000	549,000
Total Saplings in Nursery	—	350,000
% of 5M Target Achieved	18.1%	72.4 %

6. Survival Rate Monitoring

Target: 90% survival rate (4.5M of 5M) as per Schedule B, Section 3.2.2.5

Site / Zone	Planted	Surviving	% Survival	Status
Abu Ali site	5,000,000	4,500,000	90.0%	On Track

7. Quadrat Monitoring (Random Replicate Sampling)

Minimum quadrat size: 25m² (5m x 5m), georeferenced as per Schedule B, Section 3.2.2.5

Quadrat ID	GPS Coordinates	Area (m²)	Density	Failure Rate %
Q-001	27.32N, 49.50E	25	3.6 plants/m²	10%
Q-002	27.31N, 49.50E	25	3.4 plants/m²	12%
Q-003	27.32N, 49.50E	25	3.6 plants/m²	6%

8. Health & Condition Assessment

Monitoring categories as per Schedule B, Section 3.2.2.5

Condition Category	Observed?	Details / Affected Areas
Encrusting Organisms	NO	Not observed
Pest Insects / Eating Damage	NO	—
Dead or Dying Plants	Yes	Dead plants scattered in low-lying zone
Plants Entangled in Green Algae	Yes	Minor, localized patches
Other Debris Entanglement	Yes	Plastic debris after high tide
Plant Disease (e.g., fungal infection)	NO	—

9. Biophysical Conditions Monitoring

9.1 Hydrology & Hydrodynamics

Parameter	Observation / Measurement
Tidal Flushing Condition	Normal
Inundation Frequency	Bi-daily
Inundation Duration (avg hrs./day)	4–6 hrs./day
Wave Energy Assessment	Low to Moderate
Wind Conditions	NW, 10–15 km/h

9.2 Physiochemical Parameters

Parameter	Project Site(s)	Control Site
Salinity (ppt)	41 ppt	40 ppt
Seawater Temperature (°C)	20 °C	20 °C
Soil pH	7.6	7.5
Soil Conditions	Silty sand	Silty sand
Sedimentation Rate	~2 mm/week	~1.5 mm/week

10. Seedling Replacements

Seedlings not surviving within 3 months of plantation to be replaced at no additional cost (Schedule B, Section 3.2.2.5)

Site / Zone	Replacements Required	Replacements Made	Pending
Abu Ali	105,000	10,000	40,000
TOTAL	105,000	10,000	40,000

11. Issues, Observations & Recommendations

11.1 Issues Identified

- Localized mortality due to tidal scouring in exposed zones
- Debris accumulation after spring tides

11.2 Corrective Actions Taken

- Replacement planting completed using healthy nursery stock
- Removal of debris and minor re-alignment of planting rows

11.3 Recommendations

- Continue weekly debris removal
- Maintain close monitoring during next tidal cycle

12. Photographic Evidence