

BIOSTARTS VENTURES

Atri Green View, 5 E, Kamalgazi, EM Bypass, Kolkata - 700 103, West Bengal, India

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Project Location

INDIAN EXPLOSIVES Pvt.Ltd. - ORICA Gomia, Jharkhand, India https://www.orica.com/

Explosive Manufacturing Solid Waste dumpsites and Leachate Pond Slope Stabilization & in-situ leachate Treatment by Vetiver plantation & Bio-engineering

Project Execution







Explosive waste dump site and highly contaminated (Nitrates / Phosphates, Lead, Other heavy metals / TNT) leachate pond remediation by Bioengineering solutions







Phase – 2 – Slope preparation & Jute Geotextiles application







Biomass application & Initialization of Vetiver plantation



Biomass application & Vetiver plantation

Explosive Manufacturing Solid Waste dumpsites and Leachate Pond Slope Stabilization & in-situ leachate Treatment by Vetiver plantation & Bio-engineering components



Vetiver plantation growth in 30 days

Explosive Manufacturing Solid Waste dumpsites and Leachate Pond Slope Stabilization & in-situ leachate Treatment by Vetiver plantation & Bio-engineering components







Vetiver plantation growth in 60 days

Explosive Manufacturing Solid Waste dumpsites and Leachate Pond Slope Stabilization & in-situ leachate Treatment by Vetiver plantation & Bio-engineering components







Vetiver plantation growth in 2 months



Rapid Vetiver plant growth & Slope stabilization in 4 months





Vetiver Plant growth in 4 Months

Plant Growth & Biomass parameters

Leave Height in 4 months - 1.5 mt.

Biomass harvest in 4 months (wet) - 8 Tons / 1000 Sq.m)

Root length observed in 4 months - 1.0 mt.

Project Installation by

Biostarts Ventures Atri Green View, 5E Kamalgazi, Kolkata West Bengal, India

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