

पनवेल महानगरपालिका जाहीर निविदा दरपत्रक

आयुक्त, पनवेल महानगरपालिका हद्दीतील नदी/तलाव यांची पाणी गुणवत्ता सुधारण्यासाठी नैसर्गिक-परिसंस्था आधारित उपाययोजना तसेच जैविक-अभियांत्रिकी आधारित तंत्रज्ञानांचे दरपत्रक मागविणेबाबत. या कामाचे खाली नमूद केलेल्या बाबींकरिता खालील नमूण्यात दर मागविण्यात येत आहे.

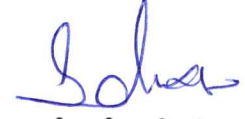
अ.क्र.	कामाचे नाव	मुदत
१	पनवेल महानगरपालिका हद्दीतील नदी/तलाव यांची पाणी गुणवत्ता सुधारण्यासाठी नैसर्गिक-परिसंस्था आधारित उपाययोजना तसेच जैविक-अभियांत्रिकी आधारित तंत्रज्ञानांचे दरपत्रक मागविणेबाबत.	०७/११/२०२५ ते १३/११/२०२५ (७ दिवस)

Specification

Sr. No	DESCRIPTION	Quantity	Unit
1.	Surface Floating Solar Power Aerator: 1. General Description: Product Name: Surface Floating Solar Power Aerator (2HP 4 Paddle Wheel Solar Aerator) Model Type: Solar Powered Paddle Wheel Aerator 2. Performance Specifications: Oxygenation Capacity: 5 kg O ₂ /hour Air Flow Rate: 5 m ³ /hour Paddle Wheel Design: 4-Paddle, High-efficiency blades 3. Power & Control: Power Rating: 2 HP Equivalent (via Solar Power) Power Supply: Solar PV Panels with integrated control unit Voltage Requirement: 220V (for backup/grid option) Automation: Automatic operation with solar energy Control Features: Daylight ON/OFF, Overload & dry run protection, Hybrid (solar + grid) 4. Solar Power System: Solar Panel Capacity: ~1.5 – 2.0 kWp (suitable for 2HP motor) Panel Type: Polycrystalline / Monocrystalline PV Mounting: Floating platform integrated with aerator Battery Backup (Optional): Li-ion/Lead Acid Controller: MPPT/Hybrid Solar Charge Controller 5. Mechanical Specifications: Structure Type: Floating Platform with paddle wheel assembly Material: HDPE/FRP Floats, ABS/Plastic Blades, SS Shaft Color: Blue (Paddles), Silver/Black (Panels) - Preferred Installation Type: Surface Floating, Plug & Play 6. Environmental & Durability: Operating Temperature: 0°C to 50°C Weather Resistance: UV-stabilized, corrosion resistant Ingress Protection: IP55 or higher Warranty: 1 Year required. 7. Installation & Maintenance: Installation Service: Required (Supplier provided) Routine Maintenance required for Panel cleaning, lubrication,	Nos.	6

	inspection of floats/paddles for an initial period of 1 year (extendable further) Expected Life: 15 years for panels, 15 years for aerator		
2.	Phytoremediation 1. General Description Phytoremediation is proposed to treat polluted water through natural ecological processes. A total length of 50 metres is proposed to be implemented at each site, with 25 m stretches on both banks (at single location) of phytoremediation to facilitate aquatic and riparian plant growth. Total Requirement – 50 m length each at 3 locations 2. Design & Coverage • Total Phytoremediation Length: 50 m (per site) • Phytoremediation Stretch: 25 m length per river bank • Supporting Structures: Suitable arrangement for aquatic vegetation shall be proposed. • Plantation Coverage: Plants to cover 50 m proposed total length (may increase or decrease as per suggested plant species). 3. Materials of Construction • Fresh garden soil, sieved and free from impurities shall be used • Well decomposed Farmyard Manure (FYM) shall be added to obtain Soil-Manure Mix: 3 parts soil : 1-part FYM. Any other suitable mix may be used with proper justification for each site and prior approval of competent authority. • Tree saplings of height 1–2 m, species such as Bahava (Cassia fistula) and other approved native species. Specific plant species needs to be suggested to treat heavy metals like Lead, Iron, Nickel, Zinc, Mercury and Chromium. 4. Dimensions & Specifications • Suitable plantation pit size is to be proposed • Plant Spacing: 30 cm centre-to-centre • Soil-Manure Mix: 3 parts soil : 1 part FYM 5. Plantation Specifications • Total number of plants: May differ based on plant species proposed. • Plant height at supply: 1–2 m • Fresh garden soil (red soil preferred), sieved through 10 mm IS sieve • Farm yard manure thoroughly mixed with soil before plantation • Daily watering with river water and initial maintenance for 1-year post-plantation 6. Operation & Maintenance • Routine inspection and regular watering of plants with river water using suitable arrangement • Application of manure as required • Pest and disease control for plant health (organic based only – no pesticides shall be allowed) • Replacement of dead plants with fresh saplings • Deployment of dedicated Mali (gardener) for plantation care for initial period of 1 year (extendable further)	Nos.	3

वर नमूद सुचित दर्शविलेल्या बाबींचे पुरवठा करणारे पुरवठादार/दुकानदार/उत्पादक/विक्रेते यांनी नमूद केलेल्या बाबींकरीता असलेले दर स्वतःच्या लेटरहेडवर महापालिकेच्या कार्यालयात अथवा ई-मेल द्वारे pmcbandhkamdept01@gmail.com यावर दिनांक १३/११/२०२५ पर्यंत पाठवावे ही विनंती, सदर दर हे अंदाजपत्रक तयार करणेसाठी गृहित धरणेत येणार आहेत.



कार्यकारी अभियंता
पनवेल महानगरपालिका

जा.क्र पमपा/बांधकाम/६५२५/प्र.क्र. १६७/४२०५/२०२५, दि.०७/११/२०२५
प्रत माहितीस्तव — १. माहिती फलक करीता