



NAVAKERALAM KARMAPADHATHI



Govt. of Kerala

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Notice Inviting Tender

No. NKP/A1/191/2022/HKM Dt: 29.10.2022

Establishing Primary Water Quality Testing Laboratories attached to 313 Higher Secondary Schools in Pathanamthitta, Idukki, Kottayam, Alapuzha and Ernakulam Districts

1. Project Overview

Harithakeralam Mission had initiated massive water quality testing for open wells immediately after the floods of 2018 in collaboration with Kerala State Pollution Control Board, Food Safety wing, Health Department, Kerala Water Authority and Public Health lab with active participation of volunteers.

Thereafter, Harithakeralam Mission has initiated establishment of Primary Water Quality Testing Laboratories attached to Higher Secondary Schools in the State aided by funds provided by the Hon'ble Members of Kerala Legislative Assembly. Government has now launched Navakeralam Karma padhathi-2 for bringing the existing four development missions and Rebuild Kerala initiative under one umbrella.

In the aftermath of the floods of 2018, Government of Kerala has entrusted Rebuild Kerala Initiative (RKI) for planning and implementing a rebuilding strategy for the State. Government has also approved the Rebuild Kerala Development Programme (RKDP) which constitutes the States' strategic Road map for a green and resilient Kerala.

Government has accorded Administrative Sanction for a Detailed Project Report submitted by Harithakeralam Mission under Navakeralam Karma Padhathi-2 for establishing Primary Water Quality Testing Labs attached to 313 Higher secondary schools in five districts of **Pathanamthitta (57), Kottayam(69), Idukki(19), Alapuzha(72) and Ernakulam(96), as below:**

Setting up of preliminary water quality testing labs in 313 schools as per standard specifications including required civil works and supply of testing equipment and chemicals: Rs. 5,00,80,000.

2. Scope of Work

Primary Water Quality Testing Laboratories would be attached to the Science Labs in Higher Secondary Schools. Following parameters are to be tested on BIS standards:

1. Colour
2. Odour
3. pH Value
4. Electrical conductivity
5. Total Dissolved solids

6. Nitrate

7. Ammonia

8. Total Coliform (Presence)

Multi parameter WQ analyzer would be used for tests under serial nos 3 to 5 and Colour comparator for 6 to 7. H₂S Strip Method would be used for Total Coliform. Mission has already developed a software for uploading the results.

Schools require the following infrastructure and successful tenderer shall provide them. Estimate shall be taken for individual schools and only actual requirement need be provided:

Metal Frame Desk 1.5mx.45mx1.2m with stainless steel top

Insulated Rubber floor mat of 3-50mm, density 1.6g/cm³ and hardness 65+/-5

Chair with MS seating, MS framework, MS back rest with dimensions 400mmx400mmx450mm

Circular or rectangular stool with 19mm dia steel frame 360mmx360mmx450mm height and leg rest at 75mm

Metal almirah 1005x457x457 20gauge front, 22gauge side and back

Rectangular steel table with locker 1200mmx800mmx600mm with 25mm thick ISI Pre-laminate MDF/Engineered wood with wooden finish with 25mm edge leaping

PTMT Soap Dish holder 138mmx102mmx75mm

C.P Towel rod 450mm

Vitreous China Laboratory Sink with CP brackets, CP trap, CP union

CP brass long body bib cock

CP brass angle valve

PVC pipes with specials as per requirement

Painting with smooth acrylic paint for the wall surfaces

Fixing Stickers as per specifications

Ceramic tiles for walls as per requirement

Granite sign board

Any other work as per site requirement

2.1 Electrical works

Wiring as per site requirement

Providing lights, fans and switches as per requirement

Pedestal fan

2.2 Equipment

H₂S Strip bottles-1000

Sterilized plastic bottles 100ml -1000nos

100ml capacity Beaker-3Nos

Sodium thiosulphate 250gm

Multi parameter water quality Analyser for testingpH, TDS, EC with suitable specifications

Color comparator testing kit

Double distilled water 10 litres

2.3 Stationaries

Toilet paper rolls

A4 sheet budles-500 sheets

Report files

Ball point pens

Paper clip board

Permanent markers

Soap, Premium quality cotton towel

Hand sanitizer

3. Request for proposals

Proposals in sealed covers super scribing the name of the work are invited from Accredited Government agencies authorized to carry out the works specified above. The agencies shall quote the centage charges for the work. They shall specify whether they are quoting for the entire project or for one or more districts (List out the Districts) .The tender shall be accompanied by an Earnest Money Deposit (EMD) of Rs.50,000 drawn on Treasury Savings Bank. Security Deposit will be 3% of the Estimated Probable Amount of Contract. At least 50% of the amount shall be through Treasury Savings Bank only.

All Government orders pertaining to execution of work through accredited agencies shall be applicable to this tender. The agency shall prepare the estimate for each laboratory considering the site conditions, issue Technical Sanction and tender works as per Government orders. All equipment shall pertain to the relevant BIS standards and cover warranty. Chemicals and consumables shall be sufficient to conduct at least 1000 tests.

Pre-bid meeting: 08/11/2022

Last date for receipt of proposals: 30/11/2022

4. Due diligence by applicants

Applicants are encouraged to inform themselves fully about the assignment and local conditions.

5. Validity of Proposals

The proposal shall be valid for a period of not less than 90 days from the Proposal Due Date.

Indu.S

Administrative Officer

Navakeralam Karma Padhathi

3rd Floor, BSNL Building

Thiruvananthapuram-1