

# REPAIR AND MAINTENANCE OF GCT SHAHMANSOOR SWABI

## DAE CIVIL GCT SWABI

### SOR FOR (DAE CIVIL SOIL MECHANICS)

**\*PLEASE ORGANIZE YOUR BID AS FOLLOWS;**

- 1) Bidder can bid for items as per Schedule of requirement published on KPTEVTA Website and having specialty /experience as described in BSD.
- 2) The Items/Equipment must have Minimum Specification acceptable to the Technical Committee of KP-TEVTA; however the higher specification may be accepted if within the financial limit.
- 3) All bidders must submit the relevant details of bid/proposals duly labelled by a permanent marker with the name of bidder and also to provide documents in soft copies (MS WORD format) on USB drive
- 4) The Supplier shall write in bold & legible letters "Name of the Project" on the envelope.
- 5) The supplier will submit the tender documents properly Computer Typed and each page shall be endorsed and numbered along with terms and condition issued by the KP-TEVTA dully signed by the authorized personnel with company seal; otherwise the bid will not be accepted.
- 6) The bidder will be responsible for standard local warranty given by the manufacturer where applicable.

Sr. No.	Name of Items/Specification	Qty.
1	STAINLESS STEEL DRYING OVEN, 50 liters capacity, Temperature controlled. Maximum temperature range 200 C <sup>0</sup>	01
2	MOISTURE CONTENT TIN 90 g Capacity.	10
3	SPEEDY MOISTURE TESTER Standard: ASTM D 4944 For accurate moisture reading on site of soil, sand, aggregates. The test system arrives by the reaction between water and calcium carbide forming a gas. Complete with electronic balance, reagent tin, accessories; the whole contained in a portable molded case. Capacity 6 gm Moisture Range 0-20%	01
4	MOTORISED CASAGRANDE APPARATUS. ASTM D 4318, Complete with mechanical stroke counter, smooth with adjustable falling height and normalized base. Accessories. 1. Cassagrande grooving tool according to ASTM. 2. Spatula made in stainless steel 120 mm blade.	01
5	SHRINKAGE LIMIT APPARATUS ASTM D 427, Glass plate, with three metal prongs. Porcelain dish Ø 150mm , Flexible spatula with 120mm blade length, Shrinkage dish Ø 42x12mm (2), glass crystallizers Ø 57x32 mm, Graduated cylinder 25 ml capacity, 1 Kg of mercury and carrying case.	01
6	PLASTIC LIMIT: ASTM D 4318 Set for Plastic limit 1. Glass plate: 300mm squarex10 mm thick, 2. Metal rod Ø 3x100 mm length 3. Porcelain dish Ø 100mm 4. Flexible spatula with 120mm blade length. 5. Aluminum can (6) Ø55x35 mm 6. Carrying case.	01
7	PYKNOMETER. ASTM D 854, 1 liter capacity, manufactured of glass and non corrodible brass cone lid.	01
8	Standard sieves set ,ASTM C 33-13 (for fine and Coarse aggregates): Of Ø 200 mm x 50 mm with hole With compatible electromagnetic sieve shaker.	01
9	CORE CUTTER APPARATUS Cylindrical core cutter 10 cm diameter and 12.7cm high Dolly/collar 2.5 cm high, Steel rammer.	01
10	SAND REPLACEMENT METHOD ASTM 1556 ( In-situ density) ASTM-Ø 6". CALIBRATED SAND (50 kg). 5 l. CAPACITY PLASTIC CONTAINER. 4" (102 mm) CONE.	01

	<p>BASE PLATE WITH Ø 4 "FLANGED HOLE. 6" (152 mm) CONE. BASE PLATE WITH Ø 6" FLANGED HOLE</p> <ul style="list-style-type: none"> <li>• BS 1377, 1924</li> </ul> <p>SAND CONE WITH UPPER CYLINDER Ø 100 mm. BASE PLATE WITH Ø 100 mm. FLANGED HOLE. CALIBRATING CONTAINER Ø 100 mm. SAND CONE WITH UPPER CYLINDER Ø 150 mm. BASE PLATE WITH Ø 150 mm. FLANGED HOLE. CALIBRATING CONTAINER Ø 150 mm.</p> <p>TOOLS FOR IN-STU DENSITY TESTS</p> <ol style="list-style-type: none"> <li>1. PLASTIC BOTTLE, CAPACITY 5 l.</li> <li>2. CANVAS GLOVES.</li> <li>3. RUBBER GLOVES.</li> <li>4. PLASTIC BOTTLE, CAPACITY 250 ml.</li> <li>5. PLASTIC BOTTLE, CAPACITY 500 ml.</li> <li>6. PLASTIC BOTTLE, CAPACITY 1000 ml.</li> <li>7. RUBBER BASKET, 12 LITRES CAPACITY.</li> <li>8. RUBBER BASKET, 18 LITRES CAPACITY.</li> <li>9. 2 x 2 m. BLANKET TO EXTEND SAMPLES.</li> <li>10. 5 cm. WIDE FLAT BRUSH.</li> <li>11. DENSITY CHISEL, 300 mm, LONG.</li> <li>12. DENSITY PICK.</li> <li>13. RUBBER MALLET.</li> <li>14. FLAT SCOOP.</li> <li>15. SMALL ROUND SCOOP.</li> <li>16. SPOON.</li> <li>17. LADLE.</li> <li>18. TROWEL.</li> <li>19. TROWEL 60 X 140 mm.</li> <li>20. STEEL MALLET.</li> </ol>	
11	<p>CONSTANT HEAD PERMEAMETER, BS 1377</p> <ul style="list-style-type: none"> <li>• (For granular soils, such as gravel and sand.)</li> </ul> <p>Complete with the following elements:</p> <ul style="list-style-type: none"> <li>- Support panel with 9 monomeric tubes, complete with nipples for the cell connection.</li> <li>- Constant level tank with outlet inlet, outlet and overflow nipples.</li> <li>- Cell made of transparent plastic material. Provided with 9 connectors for pressure inlet on 3 different levels.</li> <li>- Dimensions: Ø 90 x 330 mm. h.</li> <li>- Connection tube (20 m).</li> </ul>	01
12	<p>MODIFIED PROCTOR COMPACTION TEST APPARATUS ASTM D 698</p> <ul style="list-style-type: none"> <li>• MOULD.</li> </ul> <p>Made of corrosion protected steel. Inside diameter: 152.4 mm. (6").</p> <ul style="list-style-type: none"> <li>• Accessories:</li> </ul> <p>BASE PLATE FOR MODIFIED PROCTOR MOULDS. COLLAR FOR MODIFIED PROCTOR MOULDS. COMPACTION RAMMER (ASTM) Army type 4.5 kg, made of corrosion protected steel. Diameter: 50.8 mm. (2"). STRAIGHT EDGE with handle. STRAIGHT EDGE without handle.</p>	01
13	<p>HAND-OPERATED HYDRAULIC EXTRUDER ASTM D698, D1587, D1883</p> <p>Used to remove samples from CBR, Proctor and Marshall moulds. Hand-operated driven by means of a hydraulic jack. Made of galvanized steel. It is supplied complete with Ø 4" and 6" adaptors. Capacity: 50 KN.</p>	01

**ASSISTANT DIRECTOR (PROCUREMENT)**

