

REPAIR AND MAINTENANCE OF GCT SHAHMANSOOR SWABI
DAE CIVIL GCT SWABI
SOR FOR (CONCRETE TECHNOLOGY)

***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	<p>VICAT APPARATUS, ASTM-C187 (for initial and final setting time of cement) Hand operated Vicat apparatus, formed of a metal frame. Ø 10 mm sliding plunger weighing 300 gm and a graduated scale. Complete with needle Ø 1.13 mm. for initial setting time, final setting time needle, glass plate Ø 120 mm Accessories: 1. Needle Ø 1 mm for initial setting time. 2. Needle Ø 1.13 mm for final setting time. 3. Glass plate Ø 120mm. 4. VicatMould ASTM.</p>	01
2	<p>LE- CHATLIER'S APPARATUS: BS 4550 (For soundness of cement) LE CHATELIER WATER BATH, Made of stainless steel and incorporates a 1000 W heater enabling the water to reach boiling point within 25 minutes. Regulation of temperature through hydraulic thermostat from +5 to 100°C. Complete with resistance-tray, cover and thermometer. Allow to realize different tests simultaneously. Power supply: 220 V. 50 Hz. LE CHATELIERMOULD, Ø 30 x 300 mm. Long. LE CHATELIER GLASS PLATES (2), 50 x 50 mm. LE CHATELIER CLIP to hold the glass plates</p>	01
3	<p>FLAKINESS GAUGE, BS 812 (complete set). To measure the flakiness index of aggregates. Made in galvanized sheet with Set of seven square flakiness sieves made of painted sheet.</p>	01

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4	LENGTH GAUGE, BS 812 For measuring the length index of aggregates	01
5	PYKNOMETER, ASTM C 128 (For the determination of specific gravity of sands and fine aggregates.) SET OF CONEMOULD, FUNNEL AND TAMPER, ASTM C 128 (To determine the absorption of fine aggregate.)	01
6	SLUMP CONE APPARATUS, ASTM C 143 1. SLUMP CONE, made from galvanized plate, Suitable for measuring cohesive of concrete. 2. TAMPING ROD, made from steel. Dimensions: Ø 16 x 600 mm. 3. HOPPER, used for filling the slump cone. Made from aluminum. 4. BASE PLATE, made from galvanized sheet iron with handle. Dimensions: 60 x 40 cm. 5. GRADUATED RULE made from stainless steel. Length: 300 mm.	01
7	COMPACTING FACTOR APPARATUS. BS 1881 part 103, 5075 This equipment is used for the determination of the compacting factor of concretes with low, medium, and high workability. The apparatus is made from painted steel sheet, and is composed of two hoppers with trap doors, mounted vertically above a cylindrical mould. Tamping rod 16mm in dia. and 600mm length.	01
8	CONCRETE TEST HAMMER SCHMIDT: For the measurement of compressive strength of concrete in ordinary building and bridge construction. Fitted with a built-in automatic recorder device. Impact energy: 2.207 Nm. (0.225 kg m) Compressive strength: 10 to 70 N/mm ² Or Equivalent	01
9	Determine clay percentage in aggregate. ASTM C 117 1. This is a gravimetric method for determining the clay, silt, and dust content of that portion of the material finer than 75 µm. <ul style="list-style-type: none">• BOTTLE ROLLER, with rotation speed 80 rpm.• BOTTLE 1 L., capacity with lid. 2. BLUE METHYLENE TEST	01

Sr. No.	Name of Items/Specification	Qty.
	<p>Set for determination of Blue Methylene composed by:</p> <ul style="list-style-type: none"> • ELECTRONIC STIRRER, with digital display. It is supplied complete with stirring rod, support and fixing nut. Reliable speed between 400-700 rpm. • BURETTE, with glass key, 100 ml. capacity. • FILTER PAPER, Ø 125 mm. • GLASS ROD, length 300 mm. • BEAKER, capacity 600 ml. • BLUE METHYLENE, (25 gr). <p>OR</p> <p>EQUIVALENT</p>	
10	<p>CONCRETE MIXER</p> <p>Small and lightweight, suitable to obtain small quantities of concrete in situ or in laboratory for practical and easy to transport. Capacity: 100 liters.</p>	01
11	<p>SINGLE CUBE MOULDS ASTM C 31</p> <p>For preparation of concrete cube tests.</p> <p>Made in non-deforming steel, easily disassembled.</p> <p>Dimensions 10 x 10 x 10 cm.</p> <p>Dimensions 15 x 15 x 15 cm.</p> <p>Dimensions 20 x 20 x 20 cm.</p> <p>Dimensions 30 x 30 x 30 cm.</p> <p>Dimensions 6" x 6" x 6".</p>	01
12	<p>BEAM MOULDS ASTM C 31</p> <p>For preparation of concrete beam tests, made in non-deforming steel, easily disassembled.</p> <p>Dimensions 10 x 10 x 40 cm.</p> <p>Dimensions 10 x 10 x 50 cm.</p> <p>Dimensions 15 x 15 x 60 cm.</p> <p>Dimensions 15 x 15 x 75 cm.</p> <p>Dimensions 20 x 20 x 80 cm.</p> <p>Dimensions 6" x 6" x 18".</p> <p>Dimensions 6" x 6" x 21".</p> <p>Dimensions 6" x 6" x 24".</p> <p>Dimensions 6" x 6" x 30".</p> <p>Dimensions 6" x 6" x 36".</p> <p>Dimensions 6" x 6" x 40".</p>	01

Sr. No.	Name of Items/Specification	Qty.
13	HINGED CYLINDER MOULDS, ASTM C31 Made of steel. Suitable for the preparation of test cylinders. Dimensions Ø 100 x 200 mm. Dimensions Ø 150 x 150 mm. Dimensions Ø 150 x 300 mm. Dimensions Ø 6" x 12". Accessories: HOPPER for Ø 150 x 300 mm. cylindrical mould. COMPACTIGN ROD. Long. 50 cm.	01

ASSISTANT DIRECTOR (PROCUREMENT)