



Annex B: Scope of Works

Name of Project: IMPROVEMENT OF KSU FIRING RANGE

ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
800 (1)	CLEARING, GRUBBING AND LAYOUT	161.70	sq.m	-covers item as specified in the plan -covers the clearing of obstruction on the designated site before and after the construction -specs are as follows: Minor Tools(10%)  <b>-refer to INFRA for details</b>
801	REMOVAL OF STRUCTURES AND OBSTRUCTION	1.00	lumpsum	-covers item as specified in the plan -covers the removal of all obstructions from the site -all reusable materials shall be turned over to INFRA or GSO personnels -specs are as follows: Minor Tools (10% of Labor) Power Tools H-Frame Scaffolds  <b>-refer to INFRA for details</b>
803 (1) a	STRUCTURE EXCAVATION (Common Soil)	25.60	cu.m.	-covers item as specified in the plan -covers the excavation of ditch canal -covers the excavation of footing and wall footing of the perimeter fence -specs are as follows: Minor Tools (10% of Labor)  <b>-refer to plans for details</b>
804 (1) a	EMBANKMENT (From Structure Excavation)	18.19	cu.m.	-covers item as specified in the plan -covers the embankment of footing and wall footing of the perimeter fence -specs are as follows: Minor Tools (10% of Labor)  <b>-refer to plans for details</b>
804 (4)	EMBANKMENT (Gravel Fill)	40.00	cu.m.	-covers item as specified in the plan -covers the grading of gravel fill at the firing range (100mm thick) -specs are as follows: Loader Roller  <b>-refer to plans for details</b>
900 (1) c1	STRUCTURAL CONCRETE	11.31	cu.m.	-covers item as specified in the plan -all concrete shall be class A = $f_c' \geq 21$ Mpa -covers the footing, column and wall footing of the perimeter fence -specs are as follows: Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) washed sand (S-1) gravel 3/4" 1 bagger concrete mixer mixing box Portable Concrete Vibrator  <b>-refer to plans for details</b>
902 (1) a1	REINFORCING STEEL BARS (GRADE 40)	27.97	kgs.	-all reinforcing bars shall be grade 40 -specs are as follows: GRADE 40 RSB, 16mm dia, 12mm dia, 10mm dia.



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*Bids and Awards Committee*

				no. 16 GI Tie wire Disk grinder/ cutter Bar Bender -All Rebars should pass the standard specification of PNS 49:2002(Tensile Properties,Bending Properties, Physical Properties and Deformation) <b>-refer to plans for details</b>
903 (2)	<b>FORMS AND FALSEWORKS</b>	68.00	sq.m	-covers item as specified in the plan -covers the forms and falseworks for the columns, beams, bleacher and all necessary items -specs are as follows: Minor Tools (10% Labor) Power Tools 1/2" thk. Phenolic board Good Lumbers (well-seasoned) common wire nails (assorted) <b>-refer to plans for details</b>
1046 (2) a1	<b>CHB NON LOAD BEARING (Including RSB)</b>	153.13	sq.m.	-covers item specified in the plan -covers the laying of CHB for the perimeter fence -specs are as follows: Minor Tools (10% Labor) 1-bagger concrete mixer mixing box Portable Concrete Vibrator Concrete Hollow Block, 100mm Washed Sand Portland Cement 10mm dia RSB no. 16 GI tie wire -all materials shall be approved first before installation <b>-refer to plans for details</b>
SPL-I	<b>STEEL GATE</b>	1.00	lumpsum	-covers item specified in the plan -covers the fabrication and installation of steel gate as specified in the plans -specs are as follows: G.I. Tubular, 50mm x 100mm, 2mm thick, 6m G.I. Flat Sheet, 1.2 x 2.4m, 2mm thick Heavy Duty Cylindrical Hinge, 12mmØ Heavy Duty Cylindrical Hinge, 25mmØ Angle Bar, 25mmx25mm, 3.5mm thick Round Bar, 16mmØ, 6m G.I. Pipe, 25mmØ, 6m Welding Rod Primer Paint Quick Dry Enamel Paint Brush, 100mm Paint Brush, 50mm Power Tools Minor Tools (10% Labor) -all materials shall be approved first before installation -primed and painted, refer to infra for color <b>-refer to plans for details</b>