



Annex B: Scope of Works

**Name of Project: CONSTRUCTION OF TECHNOLOGY AND INNOVATION PARK:
SAVINGS-GENERATOR SET AND PUMP HOUSE**

ITEM No.	ITEMS OF WORK	QTY	UNIT	SCOPE OF WORKS
800(1)	CLEARING GRUBBING AND LAYOUT	70.00	sq.m	-covers the clearing and cleaning of the project site before and after the project removal of obstructions (trees, plants, etc...) removal of construction debris, cleaning of project site -specs are as follows Minor Tools(10%) -refer to plans for details
803(1)a	STRUCTURAL EXCAVATION (COMMON SOIL)	116.71	cu.m	-covers the excavation of the following: footing tie beam -specs are as follows Minor Tools (10% Labor) Back Hoe (0.8cu.m) Dump Truck -refer to plans for details
804(1)a	EMBANKMENT FROM STRUCTURAL EXCAVATION	6.83	cu.m	-covers the embankment of the following as per plan -specs are as follows Minor Tools (10% Labor) -refer to plans for details
804(4)	GRAVEL BEDDING	4.00	cu.m	-covers the gravel bedding for all of the footings, tie beams and slab on fills -specs are as follows Minor Tools (10% Labor) plate compactor 5hp Gravel Bedding (G1) -refer to plans for details
900(1)c1	STRUCTURAL CONCRETE	18.42	cu.m	-all concrete shall be class A = $f'c' \geq 21$ Mpa -covers item as specified in the plans -covers all of the footings, columns, tie beams, roof beam, slab on fill, suspended slab -specs are as follows: Minor Tools (10% Labor) 1-bagger concrete mixer mixing box Portable concrete Vibrator Portland cement Washed sand Crushed Gravel (3/4") Portland Cement(specification of this material should pass the standard specification of ASTM C595 and PNS 063) covers the provision of slump test and cylinder molds for the samples



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				<p>4 concrete samples should be provided every concrete pouring works Concrete samples shall be tested for its compressive strength Concrete pouring schedule shall be notified 3 days before the pouring Concrete pouring shall not proceed unless pre pouring inspection have been conducted by the Infrastructure Unit -refer to plans for details</p>
902(1)a1	REINFORCING STEEL BARS (GRADE 40)	1,852.33	kgs.	<p>-A.S.T.M. A615 GRADE40 for deformed bars (fy=275MPa) -specs are as follows: Reinforcing bars should be validated and checked before fabrication and installation. Fabrication and installation shall not proceed without proper inspection of the reinforcing bars. RSB testing shall be done every 10,000kg of different diameters accordingly RSB from different suppliers shall also be tested and validated upon delivery Disk grinder/ cutter Bar Bender/ Cutter Minor Tools (10% Labor) GRADE40 RSB 16mm,12mm,10mm deformed bars no. 16 GI Tie wire -refer to plans for details</p>
903(2)	FORMS & FALSEWORKS	109.73	sq.m	<p>-item covers the fabrication and installation of formworks -specs are as follows: Minor Tools (10% Labor) H-frame, set 2 pcs H-frames 4 pcs diagonal cross braces 4 pcs horizontal braces 8 pcs joint pins Shoring Jack, 3.8m Full Extension Adjustable U-Head Jack, 0.6m Adjustable Base Jack, 0.6m 1 1/2" GI Pipe Tie Rod x 0.6m Round Wing Nut 1/2" thk. Phenolic board Good lumbers (well-seasoned) common wire nails (assorted) -refer to plans for details</p>
1027 (1)	CEMENT PLASTER FINISH	86.23	sq.m	<p>-item covers the plastering of the interior and exterior walls, smooth finish -specs are as follows: Minor tools Portland Cement Fine sand -refer to plans for details</p>



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1032(1)a	PAINTING WORKS (MASONRY/CONCRETE)	100.63	sq.m	<p>-item covers the painting of interior and exterior walls</p> <p>-1 coat masonry neutralizer, 1 coat primer paint, 2 coats final coat</p> <p>-specs are as follows:</p> <ul style="list-style-type: none"> Flat Latex White (First coat) Final coat Masonry Neutralizer Masonry Putty Sand Paper Roller brush with pan Roller Brush foam Paint Brush x 100 Paint Brush x 75 <p>-refer to plans for details</p>
1046(2)	CHB NON-BEARING INCLUDING RSB	43.11	sq.m	<p>-item covers the laying of CHB as specified in the plans</p> <p>-specs are as follows:</p> <ul style="list-style-type: none"> Minor tools 4" thk. CHB Fine sand portland cement 10mm dia RSB grade 40,deformed no. 16 GI tie wire <p>-refer to plans for details</p>
1046(3)	LOUVER BLOCKS	7.20	sq.m	<p>-item covers the laying of louver blocks as specified in the plans</p> <p>-specs are as follows:</p> <ul style="list-style-type: none"> Minor tools Louver Blocks washed sand portland cement <p>-refer to plans for details</p>
1100	CONDUITS, BOXES AND FITTINGS	1.00	lumpsum	<p>-item covers the installation of conduits, boxes and fittings as specified in the plans</p> <p>-specs are as follows:</p> <ul style="list-style-type: none"> Minor tools Power Tools <p>Lighting:</p> <ul style="list-style-type: none"> Flexible Conduits (PVC/uPVC) - 20mm Ø Flexible Conduit (PVC/uPVC) adapter with locknut -20mmØ PVC/uPVC Junction box PVC/uPVC Utility Box <p>Power:</p> <ul style="list-style-type: none"> Polyvinyl Chloride Pipes (PVC/uPVC) - 20mm dia x 3m PVC/uPVC coupling - 20mm dia PVC/uPVC long elbow - 20mm dia PVC/uPVC Utility Box PVC/uPVC Junction box <p>SE to PB:</p> <ul style="list-style-type: none"> Service Entrance Cap 20mmØ



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				PVC pipe 20mmØx3m w/ coupling PVC/uPVC adapter w/ locknut - 20mm dia PVC/uPVC Junction box Consumables: Electrical tape (0.16mmx19mmx16m) Rubber tape (0.16mmx19mmx8m) PVC pipe cement 400ml -refer to plans for details
1101	WIRES AND WIRING DEVICES	1.00	lumpsum	-item covers the installation of wires and wiring devices as specified in the plans -specs are as follows: Minor tools Power Tools Lighting and Appliances 3.5mm ² THHN Cu wires Grounding 5.5mm ² THHN Cu wires 8.0mm ² THHN Cu wires -refer to plans for details
NOTE: 1. ALL EQUIPMENTS INCLUDED IN THE PROGRAM MUST BE USED DURING SITE CONSTRUCTION. 2. ALL MATERIALS MUST BE APPROVED/CHECKED BY THE INFRA PERSONNEL BEFORE INSTALLATION. 3. PLEASE REFER TO THE PLAN FOR OTHER SPECIFICATIONS.				