

Schedule of Rates (SOR) for Civil, Mechanical & Electrical (CME) Corrective Maintenance (CM) at SMART Project

ITEM	TYPE OF DEFECTS	UNIT	SARAWAK
1.0	PRELIMINARIES & MOBILIZATION		
1.1	Mobilization/Demobilization of Manpower AND inclusive carryout necessary related work	per trip	RM 806.00
1.2	Mobilization/Demobilization of Machinery, Equipment & Manpower AND inclusive carryout necessary related work	per trip	RM 3,167.00
1.3	Mobilization/ Transportation charges for Manpower to remote / island location as define by SDEC	per trip	RM 1,497.00
1.4	Mobilization/ Transportation charges for Machinery, Equipment & Manpower to remote / island location as define by SDEC	per trip	RM 3,833.00
1.5	Provide transportation service using up to 5 Ton Lorry	per trip	RM 921.00
1.6	Provide transportation service using up to 5 Ton Lorry with Crane	per trip	RM 921.00
1.7	Provide Scaffolder service	lot	RM 576.00
1.8	Supply of manpower for inspection of tower member/install/removal of accessories on tower exceed 10 meter from Ground Level	lot	RM 576.00
1.9	Survey and Inspection Fee	per trip	RM 627.00
1.10	Survey and Inspection Fee (double access)	per trip	RM 1,453.00
2.0	CIVIL & STRUCTURE WORKS		
2.1	ACCESS ROAD		
2.1.1	Supply, lay, grade and compact in layers imported suitable fill material to formation level for access road	m3	RM 32.00
2.1.2	Supply, lay and compact 150mm.thk crusher run for access road	m2	RM 5.00
2.1.3	Supply and cast 100 mm Thick concrete road (Grade 20) reinforced with one layer of BMC A6 including all backfilling, formworks, etc	m2	RM 136.00
2.1.4	Flexible Pavement- Roadbase course	m3	RM 160.00
2.1.5	Flexible Pavement- Asphaltic concrete binder course (ACB 28)	m3	RM 872.00
2.1.6	Flexible Pavement- Asphaltic concrete wearing course (ACW 20)	m3	RM 950.00
2.1.7	Flexible Pavement- Bituminous waterproof layer	m2	RM 6.00
2.1.8	Road patch - Concrete works for 50mm thk lean concrete Grade 15/20	m2	RM 26.00
2.2	ROAD CROSSING/CULVERT WORK		
2.2.1	To rectify damaged precast pipe culvert for access drainage crossing	lot	RM 668.00
2.2.2	Supply, deliver & install 1500mm dia. Precast concrete Culvert type "X" with wing wall at both side, butt joint pipe complete with cast-in -situ concrete joint complete with reinforcement, formwork, well compacted granular material as surround and reinforced concrete cradle and including excavation and part backfill	lot	RM 5,758.00
2.2.3	Supply, deliver & install - 1200mm dia. Precast concrete Culvert type "X" with wing wall at both side, butt joint pipe complete with cast-in -situ concrete joint complete with reinforcement, formwork, well compacted granular material as surround and reinforced concrete cradle and including excavation and part backfill	lot	RM 4,031.00
2.2.4	Supply, deliver & install - 900mm dia. Precast concrete Culvert type "X" with wing wall at both side, butt joint pipe complete with cast-in -situ concrete joint complete with reinforcement, formwork, well compacted granular material as surround and reinforced concrete cradle and including excavation and part backfill	lot	RM 3,455.00
2.2.5	Supply, deliver & install - 600mm dia. Precast concrete Culvert type "X" with wing wall at both side, butt joint pipe complete with cast-in -situ concrete joint complete with reinforcement, formwork, well compacted granular material as surround and reinforced concrete cradle and including excavation and part backfill	lot	RM 2,879.00
2.2.6	Supply, deliver & install - up to 450mm dia. Precast concrete Culvert type "X" with wing wall at both side, butt joint pipe complete with cast-in -situ concrete joint complete with reinforcement, formwork, well compacted granular material as surround and reinforced concrete cradle and including excavation and part backfill	lot	RM 2,303.00
2.2.7	Supply, deliver & install c/w all necessary excavation and part backfill including jointing to pipe culvert of the following sizes related material - brick sump 1mtr x 1mtr	m	RM 461.00
2.3	PIPING WORKS		
2.3.1	Excavate trenches and lay PVC piping 4" diameter Class O and backfilled with same material	m	RM 26.00
2.3.2	Excavate trenches and lay PVC piping 6" diameter Class O and backfilled with same material	m	RM 32.00
2.3.3	Supply, deliver & install c/w removal and disposal of existing unit - PVC flexible conduit	m	RM 8.00
2.3.4	Supply, deliver & install c/w removal and disposal of existing unit - GI pipe 2" Class B	m	RM 52.00
2.3.5	Supply, deliver & install c/w removal and disposal of existing unit - GI pipe 4" Class B	m	RM 58.00
2.3.6	Supply, deliver & install c/w removal and disposal of existing unit - GI pipe 6" Class B	m	RM 78.00
2.3.7	Supply, deliver & install c/w removal and disposal of existing unit - GI pipe 2" Class C	m	RM 55.00
2.3.8	Supply, deliver & install c/w removal and disposal of existing unit - GI pipe 4" Class C	m	RM 61.00
2.3.9	Supply, deliver & install c/w removal and disposal of existing unit - GI pipe 6" Class C	m	RM 81.00
2.3.10	Supply, deliver & install c/w removal and disposal of existing unit - GI pipe 2" Class O	m	RM 81.00
2.3.11	Supply, deliver & install c/w removal and disposal of existing unit - GI pipe 4" Class O	m	RM 104.00
2.3.12	Supply, deliver & install c/w removal and disposal of existing unit - GI pipe 6" Class O	m	RM 138.00
2.4	DRAINAGE WORKS		
2.4.1	Trench excavation for drainage works	m3	RM 28.00
2.4.2	Surface Drain- construction for Roadside earth drain, Type 2 (for rain water discharge not exceeding 300mm width)	m	RM 12.00
2.4.3	Provide service & material for installation of 6" PVC pipe embebbed approx.300mm in earth to drain out rain water from BTS compound/soak away pit to the nearest drain	m	RM 106.00
2.4.4	450mm x 450mm x 75mm Thick precast reinforced concrete (Grade 25) 'monsoon drain' finished fair on exposed surfaces and bedding as specified including all necessary excavation.	m	RM 177.00
2.4.5	Road side drain: 300mm x 300mm Precast reinforced concrete semi elliptical channel 75mm thick including all necessary excavation.	m	RM 40.00
2.4.6	Supply, deliver and handle of 100mm.dia class 200 single way HDPE pipe for subsoil drainage pipe	m	RM 33.00
2.5	MAIN GATE & FENCING WORKS		
2.5.1	Supply and installation of coil type stainless steel Razor Barbwire (450mm) c/w stainless steel clips	m	RM 41.00
2.5.2	To remove existing defect fencing and install 8.5 ft hght GI or PVC coated chain link c/w wire strand and embeded in concrete dwarf beam	m	RM 35.00
2.5.3	To supply & deliver new fence for 8.5 ft height 3mm.thk GI or PVC coated chain linked fencing. 2'x2'x3/16' angle bar. Concrete foundation for angle steel.	m	RM 207.00
2.5.4	To repair /mending ANY/ALL holes/opening on existing fencing using 3.3/2.8mm.thk PVC coated galvanised mesh link fencing wire	m2	RM 35.00
2.5.5	Supply labour, equipment and material for main gate repair work/alignment/make good and painting	m2	RM 207.00
2.5.6	Fabricate, supply and install 2600mm (H) x 4000mm (W) 50 x 50 SWG 10 galvanised mild steel chain link fencing gate in two leaf complete, including 2 bolts with PVC pocket sleeves, stainless steel h/duty padlocks, hinges, concrete foundation, 500mm high barb wire and ets including all other related items.	nos	RM 2,303.00
2.6	FALL ARREST SYSTEM		
2.6.1	Supply and install complete set of stainless steel fall arrest system for 45m Tower- Cablock system with insurance	lot	RM 5,758.00
2.6.2	Supply and install complete set of stainless steel fall arrest system for 250ft Tower -Cablock system with insurance	lot	RM 7,486.00

Schedule of Rates (SOR) for Civil, Mechanical & Electrical (CME) Corrective Maintenance (CM) at SMART Project

ITEM	TYPE OF DEFECTS	UNIT	SARAWAK
2.6.3	Supply and install complete set of stainless steel fall arrest system for 300ft tower - Cablock system with insurance	lot	RM 10,365.00
2.6.4	Supply and install complete set of stainless steel wire rope (33.30KN Breaking load) for 30 meter structure - Cablock system with Insurance	lot	RM 2,419.00
2.7	SLOPE PROTECTION WORKS		
2.7.1	Supply and lay 3.0m x 1.0m x 1.0m PVC coated wire mesh gabion complete with rock filled.	nos	RM 931.00
2.7.2	Supply and lay 2.0m x 1.0m x 1.0m PVC coated wire mesh gabion complete with rock filled.	nos	RM 621.00
2.7.3	Supply and lay 1.0m x 1.0m x 1.0m PVC coated wire mesh gabion complete with rock filled.	nos	RM 336.00
2.7.4	Supply and lay 0.5m x 1.0m x 1.0m PVC coated wire mesh gabion complete with rock filled	nos	RM 225.00
2.8	MISCELLANEOUS		
2.8.1	Supply and perform painting for both paint and aluminium rust protection coating at it original type&color c/w removal rust for Equipment Caging	lot	RM 207.00
2.8.2	Supply and perform painting for both paint and under coating at it original type & color c/w scrapping where necessary for all surface area (wood/ metal/ concrete)	m2	RM 35.00
2.8.3	Supply high performance sealant Hilastic 44 and seal the leakage area	m	RM 41.00
2.8.4	Supply, deliver and construct 100mm.thk concrete slab c/w A 7 mesh	m2	RM 161.00
2.8.5	Cast 3"x2" concrete c/w concrete hacking along copper tape route (Reinstatement work)	m	RM 31.00
2.8.6	Supply and Install Concrete cover of 300 x 300 x 30mm.thk for inspection pit opening	nos	RM 58.00
2.8.7	Fabricate, supply and install precast concrete cover for electrical pit (530mm x 530m x 50 mm thkss)	nos	RM 323.00
2.8.8	Supply and install M16 x 60 8.8/s Galvanised Bolt & Nuts	nos	RM 35.00
2.8.9	To resurface slab on tower platform and plinth with suitable cement screed thickness	m2	RM 51.00
2.8.10	Supply and installation of 25mm.thk x (40x50)mm gap. hotdip grating/ wire mesh completed with GI clips and other accessories for tower working platform.	m2	RM 161.00
2.8.11	Supply and install 4000mm x 50mm.dia vertical GI Pipe (at cat ladder) infill with concrete at intermediate and end post inclusive of support and concrete footing	lot	RM 1,658.00
2.8.12	Provide welding service - for all metal structure	lot	RM 541.00
3.0	ELECTRICAL/EARTHING WORKS		
3.1	Missing/damaged Compound Lighting including accessories and cabling works		
3.1.1	Supply and installation of 2 units each of 250-Watt SON floodlight lamp mounted on 6 m high perimeter lighting G.I. pole and complete all associated wiring, electrical component and accessories (Complete set)	set	RM 3,052.00
3.1.2	Supply and installation c/w concrete footing of 6m high perimeter Lighting GI pole and mounting accessories	nos	RM 1,382.00
3.1.3	Supply and installation of 250-Watt SON floodlight lamp mounted on 6 m high perimeter lighting G.I. pole and complete all associated wiring, electrical component and accessories	nos	RM 1,728.00
3.2	Aviation Light		
3.2.1	Supply and install Solar LED Aircraft Warning Light (AVIALITE - medium intensity Type B complete system)	set	RM 10,455.00
3.2.2	Supply and install Solar LED Aircraft Warning Light (AVIALITE - low intensity Type B complete system)	set	RM 2,350.00
3.3	Missing/damaged busbar, grounding and any earthing elements on tower compound		
3.3.1	Supply and install 50mm Steel Wire (Vertical)	m	RM 114.00
3.3.2	Supply and install Cadweld	nos	RM 92.00
3.3.3	Supply and install Copper Rod	nos	RM 90.00
3.3.4	Supply, deliver & install Copper tape 1" X 1/8" FURSE brand	m	RM 82.00
3.3.5	Supply and install 100mm dia GI Pipe (Vertical)	m	RM 23.00
3.3.6	Supply and install Aluminium Conductor- 100mm2	m	RM 36.00
3.3.7	Supply and install Aluminium Conductor- 50mm2	m	RM 31.00
3.4	Miscellaneous		
3.4.1	Stainless steel MGB (300 x 100 x 6mm) 12 hole C/W bolt & nuts and porcelain insulator	nos	RM 299.00
3.4.2	Supply and install 300mm x 300mm Heavy Duty Precast Concrete Earth Chamber	nos	RM 213.00
3.4.3	Inspection Pit - 450mm x 450mm c/w retractable lifting handle with hinges (below tower)	nos	RM 207.00
3.4.4	Electrical Pit - 450mm x 450mm c/w retractable lifting handle with hinges incl necessary 100mm diameter PVC duct	nos	RM 749.00
3.4.5	Lightning arrester (1.5m galv.boom + 1.5m copper rod) c/w saddle/clamp on tower (200 to 400ft).	nos	RM 1,382.00
3.4.6	Supply, deliver & install Copper rod/ lightning arrester - (Franklin Brand)	nos	RM 288.00
4.0	TOWER STRUCTURE WORKS		
4.1	Painting work due to peeling, blistering, fading and etc	lot	RM 663.00
5.0	OTHERS		
5.1	Removal of bee hives/ Snake / bird nest or any reptiles on towers/ cabin and surrounding	lot	RM 691.00
5.2	Supply of SUS 304 Stainless Steel High Security Padlock Heavy Duty with Masterkey (4 sets of Key)	nos	RM 207.00

**Related materials shall be Cu in accordance with the British standard.*

Acceptance of the Schedule of Rates (SOR) for Civil, Mechanical & Electrical (CME) Corrective Maintenance (CM) at SMART Project

COMPANY NAME:
COMPANY STAMP:
SIGNATURE:
NAME:
DESIGNATION: