

Our Ref : NSK/SACMC/070322/2

Date : 7/3/2022

CADANGAN TAMBAHAN DAN PINDAAN KEPADA SEBUAH GEREJA DUA TINGKAT SEDIA ADA DAN SATU UNIT TEMPAT PEMBUANGAN SAMPAH			
DI NO. 7, PERSIARAN ANGERIK VANILLA, SEKSYEN 31, 40460 SHAH ALAM, SELANGOR DARUL EHSAN			
Progress Claim No.2			
Code	Description	Contract Sum (RM)	Total Workdone (RM)
	Volume I of II		
	Bill No. 1 - Preliminaries	125,522.50	41,772.50
	Bill No. 2 - Specification and Preambles	-	
	Bill No. 3 - Temporary Work	33,660.00	33,660.00
	Bill No. 4 - Main Building Works	997,843.50	51,700.00
	Bill No. 5 - Temporary Toilet	36,081.50	32,081.50
	Bill No. 6 - External Works	114,492.50	-
	Bill No. 7 - Provisional Sum	150,000.00	
	Bill No. 8 - Daywork Bill	-	
	Volume II of II		
	Mechanical & Electrical Work	222,400.00	-
		1,680,000.00	159,214.00
	Less: Retention (5%)		7,960.70
	Less: Previous Progress Payment Certificate		113,754.64
	This Claim Amount		37,498.66

Thank you.

Yours faithfully,

NSK CONSTRUCTION & ENGINEERING SDN BHD

(DIRECTOR)



SHAH ALAM CHINESE METHODIST CHURCH-RENOVATION WORKS
BILL NO. 1 - PRELIMINARIES

Item	Description	Contract Amount (RM)	Workdone(%)			Amount (RM)
			Previous	Current	To Date	
1/8	<u>THE SITE</u> Access to And Egress from The Site	8,000.00	12.50	12.50	25.00	2,000.00
1/21	<u>CONTRACT MANAGEMENT</u> Setting Out of the Works	3,000.00	-	100.00	-	-
1/22	Pre-Construction Survey / Dilapidation Survey	3,000.00	-	100.00	100.00	3,000.00
1/27	Site Agent	40,000.00	12.50	12.50	100.00	3,000.00
1/28	Drawings	4,000.00	-	-	25.00	10,000.00
1/38	<u>RESTRICTION AND REGULATIONS</u> Use of Public Road for Transport of Spoil	6,000.00	12.50	12.50	-	-
1/41	<u>TEMPORARY WORKS AND SERVICES</u> Site Security	10,000.00	12.50	12.50	25.00	1,500.00
1/41	Lighting and Power For The Works	4,000.00	12.50	12.50	-	-
1/41	Water For The Works	4,000.00	12.50	12.50	25.00	2,500.00
1/42	Temporary Warning Signs, Lamp and Guardrails	1,000.00	12.50	12.50	25.00	1,000.00
1/42	Safety Helmets	2,000.00	100.00	-	25.00	250.00
1/42	Wellington Boots, Safety Boots & Harness	2,000.00	100.00	-	100.00	2,000.00
1/43	Temporary Scaffolding For All Trades	10,000.00	100.00	-	100.00	2,000.00
1/45	Temporary Conveniences	4,000.00	12.50	12.50	-	-
1/46	Constructional Plant	8,000.00	12.50	12.50	25.00	1,000.00
1/47	<u>MAINTENANCE AND PROTECTION</u> Protection of the Property of Existing Building	-	-	-	25.00	2,000.00
1/47	Cleanliness Of The Site	8,000.00	12.50	12.50	-	-
1/65	<u>FORM OF CONTRACT</u> Contractor's All Risks Insurance	3,647.92	100.00	-	25.00	2,000.00
1/67	Employer's Liability and Workmen's Compensation Insurance	900.40	100.00	-	-	-
1/73	Performance Bond	1,874.18	100.00	-	100.00	3,647.92
1/74	Supplementary Clause - Construction Industry Development Board Malaysia (CIDB)	2,100.00	100.00	-	100.00	900.40
	TOTAL SUM	125,522.50				41,772.50

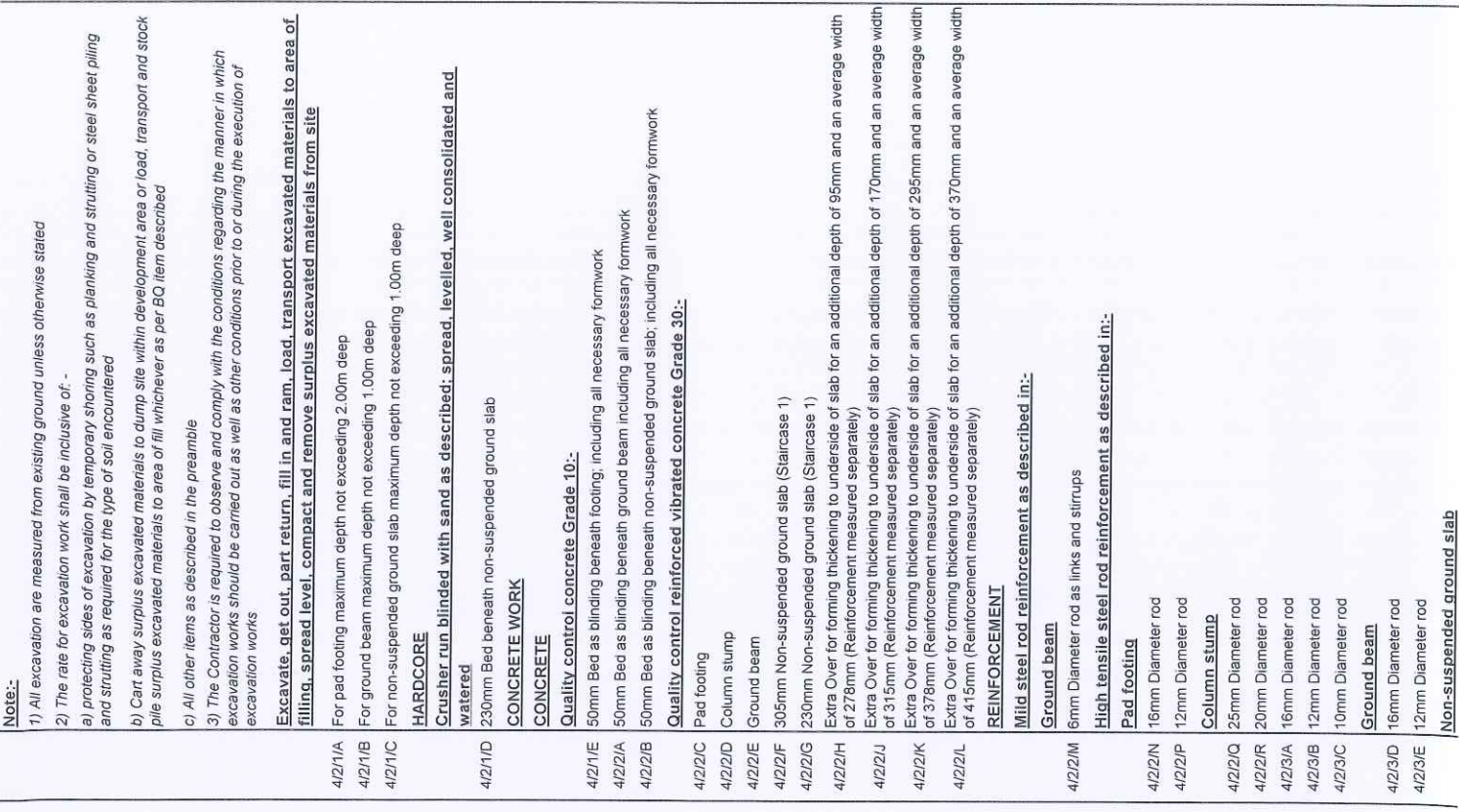


SHAH ALAM CHINESE METHODIST CHURCH-RENOVATION WORKS
BILL NO. 3 - TEMPORARY WORK

Item	Description	Unit	Qty	Rate (RM)	Contract Amount (RM)	Workdone(%) Previous	Current	To Date	Amount (RM)
ELEMENT NO. 1 - TEMPORARY WORKS									
(ALL PROVISIONAL)									
Specification And General Labour Clauses:-									
<i>For Description and Materials, Workmanship and General Labour Clauses applicable to this bill, see "Bill No. 2 - Specification & Preambles"</i>									
Note:-									
1) The Contractor shall be deemed to have visited the site to determine the extent of works involved and shall take all necessary precaution while carrying out the works. No claim for extra payment in this respect will be entertained.									
2) The Contractor is to refer Architect / Engineer's drawings for the extent of the works, design and material specifications									
3) The Contractor shall allow for all costs including payment of all fees, charges for approval, permits and licenses from the relevant Authorities, if necessary									
4) The temporary work shall be constructed to the satisfaction of the Architect and Engineer and in compliance with the Authorities' requirements. In this regard, the Contractor shall not have any claim for extension of time for completion due to stoppage of work caused by Local Authorities concerned or the Engineer for contravention of regulations and/or By-Laws by the Contractor									
5) Unless otherwise stated, the measurement of the temporary works (i.e. project signboard, entrance gate, wash trough, interlocking entrance pavement, silt trap, sediment fence, earth drain, etc.) shall be as shown on the Architect / Engineer's drawings. Any additional required for his purpose of the works by the Contractor shall be carried out by the Contractor's own cost and not included in the measurement.									
6) The Contractor's pricing for this section of temporary works shall be for the construction only. All the maintenance, relocation, modification, making good throughout the construction period, demolishing and cert away from Site upon completion shall be priced separately under Bill No. 1 - Preliminaries.									
NEW TEMPORARY PROJECT SIGNBOARD									
3/2/A	Project signboard overall size 3260mm wide x 5400mm high constructed of 2 No. of 150mm x 150mm hardwood stud cast into and including concrete footing, 50mm x 75mm hardwood framing, 100mm x 50mm hardwood support, G1 sheet all round on hardwood framing with project information, Majlis Perbandaran and Consultants details including white colour background, artwork and black colour letterings, all painting, cast into and including 450mm x 450mm x 750mm depth concrete footing, including all painting works, excavation, cart away debris off site, fixing accessories, etc.; complete system all as per Architect Drawing No. Hoarding-02	NO.	1	5,000.00	5,000.00	100.00		100.00	5,000.00
NEW HOARDING AND ENTRANCE GATE									
3/2/B	Supply and install 3600mm high temporary hoarding constructed of 0.38mm thick metal decking, 125mm x 125mm hardwood post at 2500mm spacing cast into and including concrete footing, 4 rows 100mm x 50mm hardwood nogging, 50mm x 50mm hardwood support at 2500mm spacing, including additional 125mm x 125mm thick hardwood support and 50mm x 50mm hardwood strut to both end of entrance gate and footing, painting works, excavation, cart away debris off site, fixing accessories, etc.; complete system all as per Architect Drawing No. Hoarding-02	M	81	180.00	14,580.00	100.00		100.00	14,580.00
3/2/C	Entrance gate overall size 6100mm x 3600mm high in 2 equal panel complete with 1.0mm thick metal deck supported on hardwood frame and printed on both sides, hardwood strut planted into concrete footing at 2400mm spacing, mild steel framing, 100mm x 50mm hardwood support and bracing, including all painting works, excavation, cart away debris off site, fixing accessories, etc.; complete system all as per Architect Drawing No. Hoarding-04	NO.	1	5,000.00	5,000.00	100.00		100.00	5,000.00
3/2/D	PLYWOOD PARTITION Plywood approximately 4500mm high as partition between site working area and non-working area including all necessary support and fixing accessories, etc complete system (Community Hall 1) as indicated in Architect's Drawing No. Hoarding-01	M	9	120.00	1,080.00	100.00		100.00	1,080.00
3/3/A	SITE CABIN Supply and install overall size 6000mm x 3050mm x 3275mm high temporary site cabin complete with concrete base, 50mm x 74mm hardwood timber at 400mm internal overlay with WBP heavy duty plywood finish with high grade linoleum, natural anodised aluminium frame adjustable glass louvers window, timber frame plywood flush door, etc complete system all as per Architect Drawing No. Hoarding-03	NO.	1	8,000.00	8,000.00	100.00		100.00	8,000.00
					33,660.00				33,660.00
ELEMENT NO. 1 - TEMPORARY WORKS									



[illegible]

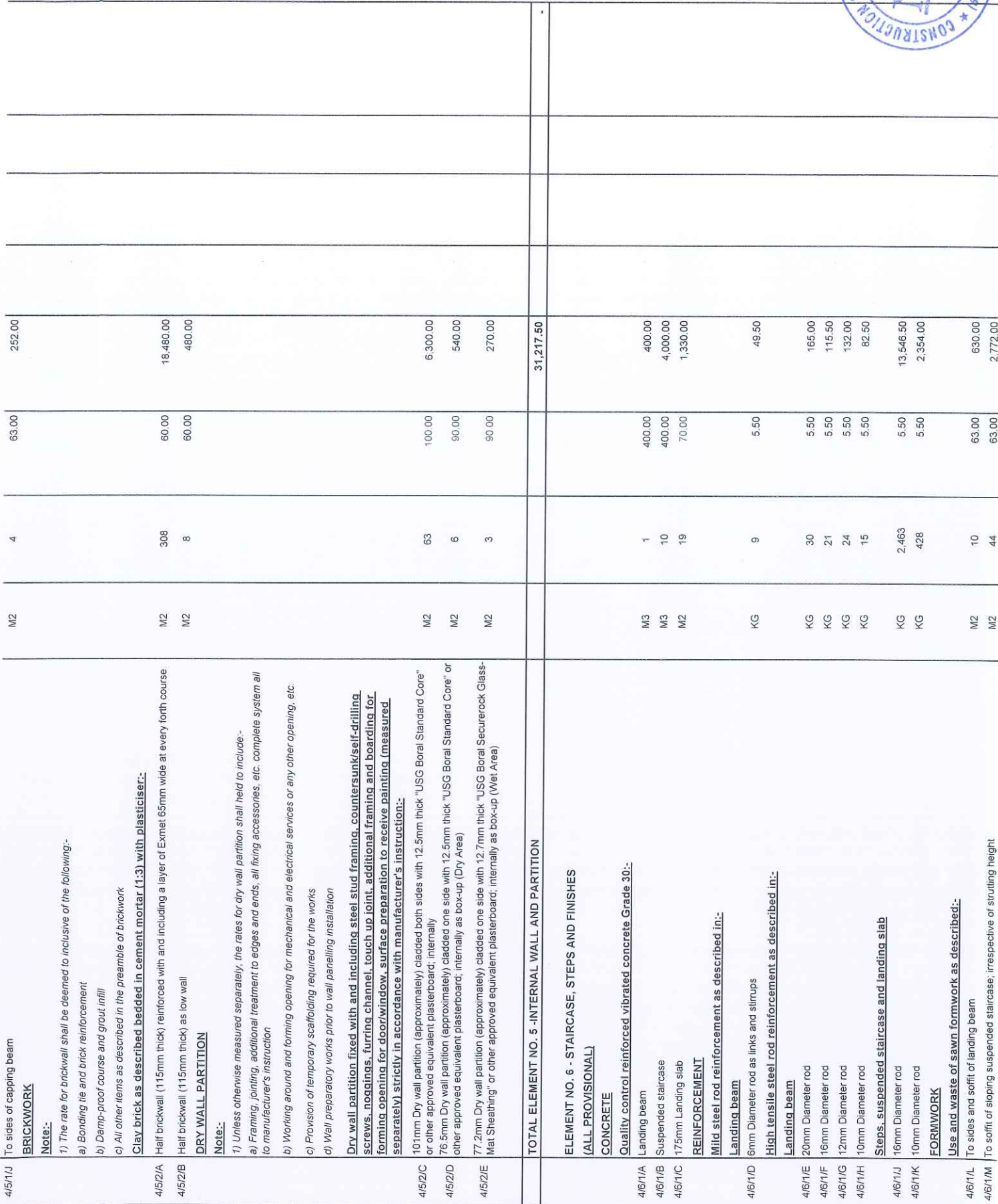




4/3/1/M	20mm Diameter rod	378	5.50	2,079.00			
4/3/1/N	16mm Diameter rod	1,008	5.50	5,544.00			
4/3/1/P	12mm Diameter rod	1,908	5.50	10,494.00			
4/3/1/Q	10mm Diameter rod	1,872	5.50	10,296.00			
	FORMWORK						
	Note:-						
	1) The measurement for formwork to sides column shall be in square metres to irrespective of the height of column						
	Use and waste of sawn formwork as described:-						
4/3/1/R	To sides of column	201	63.00	12,663.00			
4/3/1/S	To sides and soffit of beam and upstand beam	562	63.00	35,406.00			
	PLANTING BAR						
	To provide labour, tools and material to drilling holes and to install rebar with Hilti RE500 V3 epoxy for the following:-						
4/3/2/A	16mm Diameter reinforcement bar (measured separately) embedded approximately 150mm length into existing concrete structure	4	50.00	200.00			
4/3/2/B	12mm Diameter reinforcement bar (measured separately) embedded approximately 150mm length into existing concrete structure	20	50.00	1,000.00			
	TOTAL ELEMENT NO. 3 - FRAME			122,993.00			
	ELEMENT NO. 4 - EXTERNAL WALL (ALL PROVISIONAL)						
	CONCRETE WORK						
	PRECAST CONCRETE						
	Reinforced vibrated precast concrete Grade 25 including all moulds, hoisting and settings in cement mortar (1:3)						
4/4/1/A	Lintel overall size 125mm wide x 200mm deep reinforced with and including 4 nos. of 10mm diameter high tensile rod as top and bottom bars and 6mm diameter mild steel rod as links and stirrups at 100mm centres as per Engineer's Drawing no. TDC/H/7463/GN/01/REV.0	11	100.00	1,100.00			
	CONCRETE						
	Quality control reinforced vibrated concrete Grade 30:-						
4/4/1/B	200mm Fin wall	65	80.00	5,200.00			
4/4/1/C	Stiffener	1	400.00	400.00			
4/4/1/D	Coping and lintel	3	400.00	1,200.00			
	REINFORCEMENT						
	Mild steel rod reinforcement as described in:-						
	Stiffener						
4/4/1/E	6mm Diameter rod as links and stirrups	24	5.50	132.00			
	Coping and lintel						
4/4/1/F	6mm Diameter rod as links and stirrups	114	5.50	627.00			
	High tensile steel rod reinforcement as described in:-						
	Fin wall						
4/4/1/G	12mm Diameter rod	212	5.50	1,166.00			
4/4/1/H	10mm Diameter rod	604	5.50	3,322.00			
	Stiffener						
4/4/1/J	10mm Diameter rod	77	5.50	423.50			
	Coping and lintel						
4/4/1/K	16mm Diameter rod	24	5.50	132.00			
4/4/1/L	12mm Diameter rod	79	5.50	434.50			
4/4/1/M	10mm Diameter rod	150	5.50	825.00			
	Mesh fabric reinforcement cut to size:-						
	Fin Wall						
4/4/1/N	B.R.C. No. A9 (4.99Kg/m2) mesh fabric reinforcement laid in position with side and end laps (measured net - no allowance made for laps)	147	40.00	5,880.00			
	FORMWORK						
	Use and waste of sawn formwork as described:-						
4/4/2/A	To sides of fin wall	107	63.00	6,741.00			



4/4/2/B	To sides of fin wall; sloping over 15 degree from horizontal	M2	25	63.00	1,575.00			
4/4/2/C	To sides of stiffener	M2	2	63.00	126.00			
4/4/2/D	To sides of coping and lintel	M2	41	63.00	2,583.00			
	BRICKWORK							
	Note:- 1) The rate for brickwall shall be deemed to inclusive of the following:- a) Bonding tie and brick reinforcement b) Damp-proof course and grout infill c) All other items as described in the preamble of brickwork							
4/4/2/E	Clay brick as described bedded in cement mortar (1:3) with plasticiser:- Half brickwall (115mm thick) reinforced with and including a layer of Exmet 65mm wide at every fourth course	M2	203	60.00	12,180.00			
	FACADE SIGNAGE							
	Note:- 1) The rate for signage shall be deemed to inclusive of the following:- a) All necessary fixing accessories b) All necessary protection c) Necessary scaffolding / sky lift required for the Work 2) The Contractor is to submit the following items for the Architect's approval prior to the commencement of any of the Work:- a) Shop drawings b) Colour and material samples 3) The Contractor is required to refer to the drawings to determine the exact extend of the work. In this respect, the Contractor is not entitled to claim for extra cost or time whatsoever Supply, deliver and install cross signage constructed of powder coated mild steel metal plate, powder coated mild steel plate support, mild steel C-channel, LED strip light, LED strip lighting driver, etc all as per Architect's Drawing No. SD/DEI-01 Facade cross signage overall size 2400mm wide x 4300mm high; fixed to brickwall							
4/4/3/A		No.	1	13,000.00	13,000.00			
	TOTAL ELEMENT NO. 4 - EXTERNAL WALL				57,047.00			
	ELEMENT NO. 5 - INTERNAL WALL AND PARTITION (ALL PROVISIONAL)							
	CONCRETE WORK							
	PRECAST CONCRETE							
	Reinforced vibrated precast concrete Grade 25 including all moulds, hoisting and settings in cement mortar (1:3) Lintel overall size 125mm wide x 200mm deep reinforced with and including 4 nos. of 10mm diameter high tensile rod as top and bottom bars and 6mm diameter mild steel rod as links and stirrups at 100mm centres as per Engineer's Drawing no. TDC/H/7463/GN/01/REV.0	M	32	100.00	3,200.00			
4/5/1/A								
	CONCRETE							
	Quality control reinforced vibrated concrete Grade 30:-							
4/5/1/B	Stiffener	M3	1	400.00	400.00			
4/5/1/C	Capping beam	M3	1	400.00	400.00			
	REINFORCEMENT							
	Mild steel rod reinforcement as described in:-							
4/5/1/D	Stiffener 6mm Diameter rod as links and stirrups	KG	21	5.50	115.50			
4/5/1/E	Capping beam 6mm Diameter rod as links and stirrups	KG	6	5.50	33.00			
	High tensile steel rod reinforcement as described in:-							
4/5/1/F	Stiffener 10mm Diameter rod	KG	66	5.50	363.00			
4/5/1/G	Capping beam 10mm Diameter rod	KG	24	5.50	132.00			
	FORMWORK							
4/5/1/H	Use and waste of sawn formwork as described:- To sides of stiffener	M2	4	63.00	252.00			





4/6/1/N	To soffit of landing slab	M2	17	63.00	1,071.00
4/6/1/P	To edge of suspended staircase with 300mm tread, exceeding 100mm but not exceeding 200mm riser and 150mm waist including cutting to profile of tread and riser	M	53	20.00	1,060.00
4/6/1/Q	To undercut riser exceeding 100mm but not exceeding 200mm high	M	128	20.00	2,560.00
4/6/1/R	To edge of concrete not exceeding 250mm high	M	17	20.00	340.00
PLANTING BAR					
To provide labour, tools and material to drilling holes and to install rebar with Hilti RE500 V3 epoxy for the following:-					
4/6/2/A	10mm Diameter reinforcement bar (measured separately) embedded approximately 150mm length into existing concrete structure	NO.	24	50.00	1,200.00
STAIRCASE FINISHES					
PAVING					
Cement and sand (1:3) finished with a steel/ wood trowel to smooth/ semi-smooth/ wet polished finish; including falls and crossfalls:-					
4/6/2/B	25mm (min) Paving; including to fall and crossfall (Staircase 1)	M2	9	40.00	360.00
4/6/2/C	25mm (min) Finish to 300mm wide tread	M	53	40.00	2,120.00
4/6/2/D	Extra over to form nosing groove all as per Architect's Drawing No. ST1(DE)-04	M	58	40.00	2,320.00
4/6/2/E	13mm (min) Finish to undercut riser exceeding 100mm and not exceeding 200mm high	M	58	40.00	2,320.00
PLASTERWORK					
Note:-					
1) The rate for plasterworks shall be inclusive of PVC angle beads for all corners					
Approved ready-mixed cement based plaster skim coat applied internally including all surface preparation work all in accordance with manufacturer's instruction:-					
4/6/2/F	10mm (min) Plaster to concrete sides and soffit, externally	M2	5	40.00	200.00
4/6/2/G	10mm (min) Plaster to sloping concrete soffit; externally	M2	19	40.00	760.00
4/6/2/H	10mm (min) Plaster to edge of concrete including working to profile of tread and riser overall width exceeding 300mm and not exceeding 400mm high	M	21	20.00	420.00
4/6/2/J	3mm (min) Plaster to concrete sides and soffit	M2	9	15.00	135.00
4/6/2/K	3mm (min) Plaster to sloping concrete soffit	M2	17	15.00	255.00
4/6/2/L	3mm (min) Plaster to edge of concrete including working to profile of tread and riser overall width exceeding 300mm and not exceeding 400mm high	M	14	10.00	140.00
STAIRCASE TILES					
Note:-					
1) The Contractor shall breakdown his prices in the boxes provided					
2) Adjustment will be made to the rate accordingly based on the actual cost except the Adhesive and grout (Item c). Screed (Item d) and Labour & Other Cost All Inclusive (Item e) should other tile be used					
3) The Contractor is required to submit tiles setting out shop drawing for approval prior commencement of works					
4) The rate for floor tile shall inclusive of:-					
a) Screeded bed to concrete floor and steps					
b) Laying tile to fall and crossfall					
c) Tile spacer for forming gap between tile					
d) Tile edge to be chamfered					
e) Working around electrical & telephone junction box, floor trap & pipe inlet / outlet including cutting, fitting in and lay matching tiles					
Supply and lay various floor tile finishes; in types, quality, colours, patterns; selection by the Architect					
600mm x 600mm "MML Belluci SM8K4D" or other approved equivalent porcelain homogeneous tiles, bedded in tile adhesive, jointed and pointed in matching colour tile grout including cement and sand (1:3) screeded bed all in accordance to the Manufacturer's instruction and Architect's drawings and approval					
4/6/4/A	Paving to landing slab (Staircase 2 and Staircase 3)	M2	9	170.00	1,530.00
4/6/4/B	Finish to 300mm wide tread	M	64	60.00	3,840.00
4/6/4/C	Extra over for 75mm wide non-slip nosing tiles with ribbed surface and rounded front edge all to the Architect's approval	M	70	30.00	2,100.00
4/6/4/D	Finish to undercut riser exceeding 100mm but not exceeding 200mm high	M	70	45.00	3,150.00
4/6/4/E	Finish to skirting 100mm high	M	34	30.00	1,020.00
METALWORK					
Note:-					
1) The Contractor is to submit shop drawing on mild steel works for approval prior commencement of works					

2) Unless otherwise measured separately, the rates of metal works shall include the cost for all necessary stiffener and connection plates, bolt and nuts, welded joints etc.

Mild steel works including all framing, bracket, support, fixing accessories, all cut, welded and framed together and fixing in position including all shop and site connection and filling smooth welded junction and painted metal surfaces with one coat of approved primer, etc.; complete system all as per Manufacturer's instruction.

Mild steel perforated railing constructed of 50mm x 25mm rectangular hollow section as handrail and bottom rail. 50mm x 25mm rectangular hollow section as balustrade complete with mild steel perforated sheet, 120mm x 120mm x 5mm thick base plate, etc. including all fixing accessories as per Architect's Drawing No. ST11(DE)-03-04

To Staircase 1; overall 1050mm high

Mild steel railing constructed of 50mm x 25mm rectangular hollow section as handrail and bottom rail. 50mm x 25mm rectangular hollow section as baluster and balustrade, 120mm x 120mm x 5mm thick base plate, etc. including all fixing accessories as per Architect's Drawing No. ST2(DE)-03

To Staircase 2 and Staircase 3; overall 1050mm high

TOTAL ELEMENT NO. 6 - STAIRCASE, STEPS AND FINISHES

ELEMENT NO. 7 - UPPER FLOOR CONSTRUCTION (ALL PROVISIONAL)

CONCRETE WORK CONCRETE

Quality control reinforced vibrated concrete Grade 30:-

230mm Suspended slab

175mm Suspended slab

125mm Suspended slab

50mm Ramp slab

125mm wide x 150mm high concrete kerb including all necessary formwork as per Engineer's Drawing No. TDC/H/7463/2B/02/REV.0 and TDC/H/7463/2B/02/REV.0 (Reinforcement measured separately)

REINFORCEMENT

Mild steel rod reinforcement as described in:-

Suspended slab

6mm Diameter rod as links and stirrups

Kerb

6mm Diameter rod as links and stirrups

High tensile steel rod reinforcement as described in:-

Suspended slab

12mm Diameter rod

10mm Diameter rod

Kerb

10mm Diameter rod

Mesh fabric reinforcement cut to size:-

Suspended slab

B.R.C. No. A9 (4.99Kg/m2) mesh fabric reinforcement laid in position with side and end laps (measured nett - no allowance made for laps)

B.R.C. No. A8 (3.95Kg/m2), ditto

B.R.C. No. A7 (3.02Kg/m2), do.

FORMWORK

Use and waste of sawn formwork as described:-

To soffit of suspended slab

To soffit of suspended slab; exceeding 3.50m high but not exceeding 5.00m high

To edge of concrete not exceeding 250mm high

TOTAL ELEMENT NO. 7 - UPPER FLOOR CONSTRUCTION





ELEMENT NO. 8 - ROOF (ALL PROVISIONAL) STRUCTURAL WORKS					
Note: - 1) Unless otherwise measured separately, the rates of structural steel items shall include the cost for all necessary stiffener and connection plates, bolt and nuts, welded joints etc. 2) Shop drawing is required to be submitted for approval prior commencement of works including PE endorsement as specified The following structural steel works all fabricated, cutting, framed together, welding, bolting, drilling, hoisting, shop and site connection, filling smooth welding junction including shop primed with an approved primer, all fixing accessories and etc.; complete system fixed to concrete beam all as per Manufacturer's instruction and Engineer's drawings and approval:- The following in Purlin 127mm x 51mm x 1.6mm Thick x 3.2kg/m C-section (RHS) as purlin (In No. 12)					
4/8/1/A	M	168	65.00	10,920.00	
ROOFING					
Note:- 1) All the roof works shall carried a ten (10) years Contractor and roof fabricator joint warranty throughout the warranty period 2) The warranty shall also cover the following:- a) 25 years against perforation by corrosion b) 15 years against flake and peel c) 10 years against excessive colour fading d) 5 years against discoloration by dirt staining 3) Shop drawing is required to be submitted for approval prior commencement of works including PE endorsement as specified "SANKO GRIP DECK 3 PAN" 0.42mm BST (0.47mm TCT) in clean colorbond XRW steel (AZ150) metal roof covering or other approved equivalent including AS 3566 Class 3 fastener, all fixing accessories, etc.; complete system (measured separately) and laid strictly as per Manufacturer's instruction and Architect's approval and drawings					
4/8/2/A	M2	131	80.00	10,480.00	
4/8/2/B	M2	14	80.00	1,120.00	
4/8/2/C	M	22	80.00	1,760.00	
4/8/2/D	M	42	40.00	1,680.00	
4/8/2/E	M	7	70.00	490.00	
INSULATION					
4/8/2/F	M2	145	10.00	1,450.00	
4/8/2/G	M2	145	20.00	2,900.00	
GUTTER					
Approved galvanised iron gutter complete with bracket, joint, end stopper, outlet piece, all fixing accessories and etc.; complete system fixed to concrete beam (measured separately) all as per Manufacturer's instruction and Architect's approval					
4/8/2/H	M	22	200.00	4,400.00	
PLUMBING					
Approved Unplasticized Polyvinyl Chloride (uPVC) rainwater downpipes, fittings and accessories including all sleeves, bends, junction, joints, holder bats, brackets, jointing to outlets and etc.; complete system fixed strictly in accordance with Manufacturer's instruction and Architect's approval					
4/8/2/J	M	37	60.00	2,220.00	
4/8/2/K	M	5	100.00	500.00	
SUNDRIES					
4/8/3/A	NO.	3	30.00	90.00	
Approved uPVC dome outlet to suit 100mm diameter rainwater downpipes (measured separately)					
TOTAL ELEMENT NO. 8 - ROOF				38,010.00	
ELEMENT NO. 9 - ALUMINIUM AND GLAZING WORKS (ALL PROVISIONAL)					



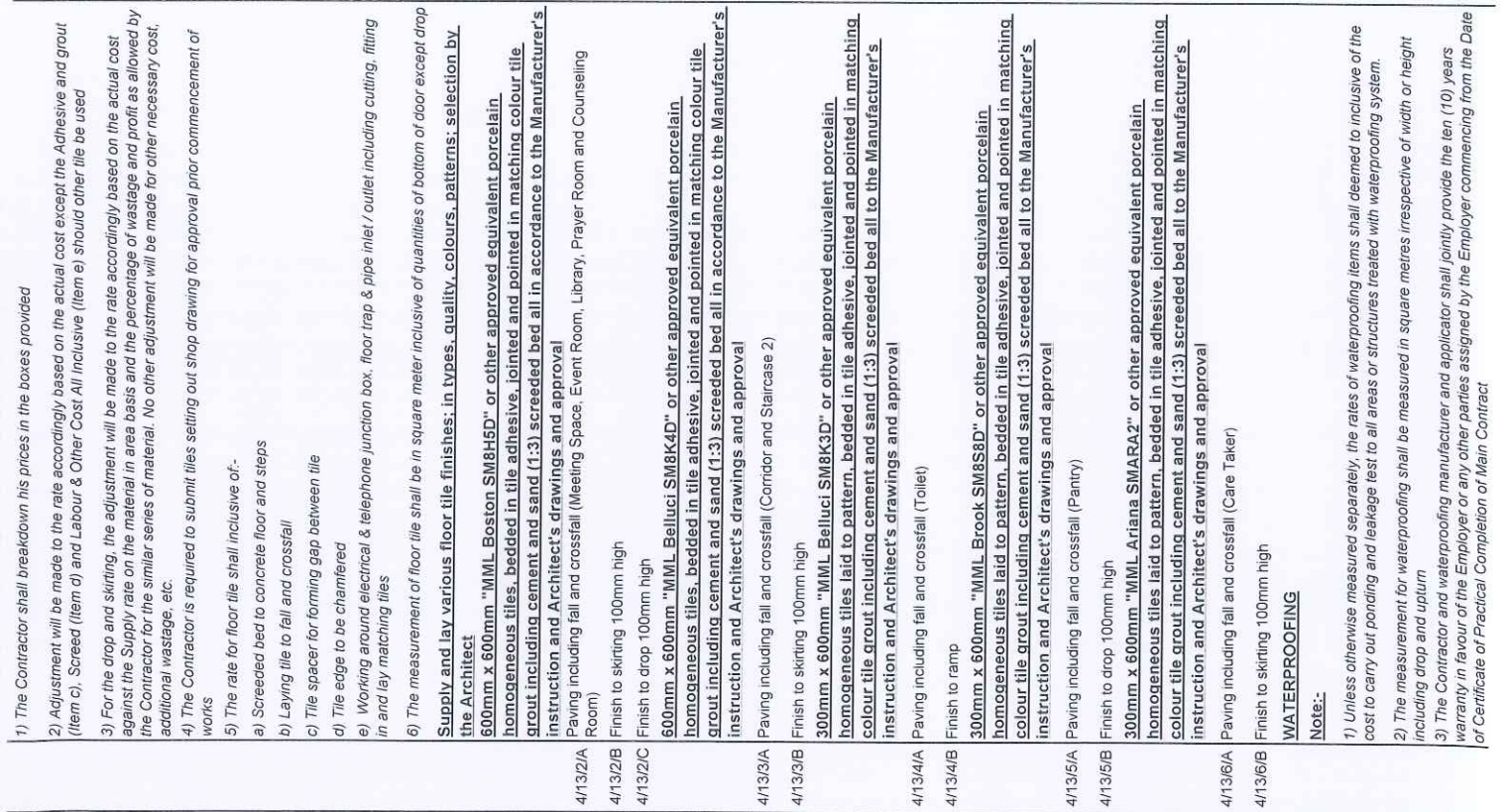
Note:- 1) The Contractor shall price and submit breakdown prices for each item as described in the Bills of Quantities 2) The prices for the aluminium and glazing works shall include the establishment charges and overheads, import duty and taxes, profit and any other expenses and everything else necessary for the proper completion of the works and conforming to the foregoing preliminaries and performance specification 3) The Contractor is to submit shop drawing, engineering data and structural calculation endorsed by Professional Engineer on aluminium and glazing works for approval prior commencement of works 4) The Contractor and Aluminium and glazing work sub-contractor shall jointly provide the following warranty in favour of the Employer or any other parties assigned by the Employer commencing from the Date of Certificate of Practical Completion of Main Contract a) Against colour fading in aluminium for ten (10) years b) Structural design for ten (10) years c) Workmanship for ten (10) years d) Gasket / Weather strip for ten (10) years e) Silicone for ten (10) years f) Friction stay for five (5) years g) Accessories as per Defect Liability Period					
ALUMINIUM FRAMED CASEMENT WINDOW AND FIXED PANEL Design, supply and install the following powder coated aluminium framed casement window and fixed glass panel complete with sub-frame, outer frame, transoms, mullions, inner frames, glass, ironmongeries system, glazing bead, gasket, weather strip, sealant, silicone including all fixing accessories, etc.; complete system, pointing with mastic and fixed complete in position all as per Architect's approval and Manufacturer's instruction					
4/9/2/A	W3 - Fixed glass panel overall size 1500mm wide x 2400mm high as per Architect's Drawing No. WS(SCH)-01	NO.	2	1,540.00	3,080.00
4/9/2/B	W4a - Fixed glass panel overall size 1200mm wide x 900mm high as per Architect's Drawing No. WS(SCH)-01	NO.	1	410.00	410.00
4/9/3/A	W6 - Fixed glass panel overall size 850mm wide x 3300mm high as per Architect's Drawing No. WS(SCH)-02 (End of the following in fixed glass panel)	NO.	1	1,200.00	1,200.00
The following in top hung window					
4/9/4/A	W4 - Top hung window overall size 1200mm wide x 900mm high as per Architect's Drawing No. WS(SCH)-01	NO.	2	480.00	960.00
4/9/5/A	W5 - Top hung window overall size 850mm wide x 600mm high as per Architect's Drawing No. WS(SCH)-02	NO.	1	240.00	240.00
4/9/6/A	W7 - Top hung window overall size 5475mm wide x 600mm high as per Architect's Drawing No. WS(SCH)-02	NO.	1	1,450.00	1,450.00
4/9/7/A	W8 - Top hung window overall size 3550mm wide x 600mm high as per Architect's Drawing No. WS(SCH)-03	NO.	1	960.00	960.00
4/9/8/A	W9 - Top hung window overall size 2250mm wide x 600mm high as per Architect's Drawing No. WS(SCH)-03	NO.	1	600.00	600.00
4/9/9/A	W10 - Top hung window overall size 5250mm wide x 600mm high as per Architect's Drawing No. WS(SCH)-03	NO.	1	1,450.00	1,450.00
4/9/10/A	W11 - Top hung window overall size 3175mm wide x 600mm high as per Architect's Drawing No. WS(SCH)-04 (End of the following in top hung window)	NO.	1	840.00	840.00
The following in casement window and fixed glass panel					
4/9/11/A	W1 - Casement window and fixed glass panel overall size 1200mm wide x 2200mm high as per Architect's Drawing No. WS(SCH)-01	NO.	7	1,000.00	7,000.00
4/9/12/A	W2 - Casement window and fixed glass panel overall size 1200mm wide x 2200mm high as per Architect's Drawing No. WS(SCH)-01 (End of the following in casement window and fixed glass panel)	NO.	7	1,120.00	7,840.00
ALUMINIUM FRAMED SWING DOOR Design, supply and install the following powder coated aluminium framed swing glass door complete with sub-frame, outer frame, transoms, mullions, inner frames, glass, ironmongeries system, glazing bead, gasket, weather strip, sealant, silicone including all fixing accessories, etc.; complete system, pointing with mastic and fixed complete in position all as per Architect's approval and Manufacturer's instruction					
4/9/13/A	D4 - Single leaf aluminium framed swing glass door overall size 1000mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-01 ALUMINIUM FRAME GLASS LOUVERS	NO.	1	2,100.00	2,100.00



4/9/14/A	Design, supply and install the following powder coated aluminium framed glass louvers window complete with sub-frame, outer frame, transoms, mullions, inner frames, glass, ironmongeries system, glazing bead, gasket, weather strip, sealant, silicone including all fixing accessories, etc.; complete system with anti-vermin netting, pointing with mastic and fixed complete in position all as per Architect's approval and Manufacturer's instruction W12 - Aluminium glass louvers window overall size 3000mm wide x 500mm high as per Architect's Drawing No. WS(SCH)-04 (Community Hall 1) ALUMINIUM LOUVERS SWING DOOR Design, supply and install the following powder coated aluminium louvre complete with support framing, sub-framing, bracket, aluminium capping, ironmongeries system including all fixing accessories, etc.; complete system, fixed complete in position all as per Architect's approval and Manufacturer's instruction D7 - Double leaf aluminium louvers swing door overall size 1500mm wide x 1425mm high as per Architect's Drawing No. DR(SCH)-02 (Pump Room)	NO.	2	720.00	1,440.00				
4/9/14/B		NO.	1	1,050.00	1,050.00				
	TOTAL ELEMENT NO. 9 - ALUMINIUM AND GLAZING WORKS				30,620.00				
	ELEMENT NO. 10 - DOORS (ALL PROVISIONAL) CARPENTRY AND JOINERY								
	Note: 1) The Contractor is to submit shop drawing on joinery works for approval prior commencement of works								
	Approved 40mm thick hollow core timber flush door complete with 4.6mm thick plywood on both sides complete with edging with timber lipping all around all as per Manufacturer's instruction and Architect's Drawing No. TYP(DE)-01. :- (Butt hinges measured separately):-								
4/10/1/A	D1 - Double leaves door overall size 1800mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-01 (Meeting Space)	NO.	2	450.00	900.00				
4/10/1/B	D2 - Single leaf door overall size 1000mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-01 (Pantry, Care Taker, Event Room, Library, Prayer Room and Counseling Room)	NO.	10	235.00	2,350.00				
4/10/1/C	D6 - Single leaf door overall size 1200mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-02 (Corridor)	NO.	1	250.00	250.00				
	Approved 40mm thick hollow core timber flush door complete with 4.6mm thick plywood on one side and 4.6mm thick WBP plywood on another side complete with edging with timber lipping all around all as per Manufacturer's instruction and Architect's Drawing No. TYP(DE)-01:- (Butt hinges measured separately):-								
4/10/1/D	D3 - Single leaf door overall size 800mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-01 (Toilet 1 and Toilet 2)	NO.	4	240.00	960.00				
4/10/1/E	D5 - Single leaf door overall size 1000mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-02 (Disabled Toilet, Female Toilet and Male Toilet)	NO.	3	240.00	720.00				
	FIRE-RATED DOOR								
	Note:- 1) The fire rated door with the following:- a) Valid certificate of approval from Jabatan Bomba complete with attachment of ironmongery details tested with fire resistant doorset b) Comply with the requirements of the JBPM, MS 1073 and SS 332 and any additional requirements of other statutory authorities having jurisdiction over the works c) Product certification licence from Sirm QAS and summary test report from the Fire Engineering Test Section, Sirm QAS International Bhd, catalogue of all ironmongeries that are tested with the fire resistant doorset d) Installed by the accredited and approved installer from the fire resistant doorset manufacturer 2) The Contractor shall ensure that the product warranty for a period of two (2) years for ironmongeries shall be issued by the product manufacturer directly to the Employer. Approved fire rated metal frame solid core timber door including ironmongeries, etc., complete system all as per manufacturer's instruction, Jabatan Bomba and authorities' requirement								
4/10/2/A	FD1 - Single leaf one hour fire rated door overall size 1000mm wide x 2400mm high; fixed to 100mm brickwall as per Architect's Drawing No. DR(SCH)-02 (Staircase 1 and Staircase 2)	NO.	6	1,200.00	7,200.00				
4/10/2/B	Extra over for master key system	NO.	6	100.00	600.00				
	FRAME AND FINISHINGS								
4/10/2/C	Approved sawn pressure treated Grade "B" timber:- 130mm x 12mm as packing piece as per Architect's Drawing No. TYP(DE)-01	M	117	30.00	3,510.00				
	Approved wrot pressure treated Grade "B" timber:-								

[illegible]

Note:-





"SIKA" or other approved equivalent waterproofing system including preparing surfaces, priming and laying, working around floor trap outlet, pipe inlet/outlet, pipe penetration, etc.; complete system all as per Manufacturer's specification and instruction and Architect's approval Apply 2 coats "Sika Top Seal 107 RED" 2-part polymer modified cementitious waterproofing and protective coating system at 1.0kg/m²/coat directly onto well prepared and cleaned surfaces and apply "Sikalastic 110" polyurethane liquid applied seamless waterproofing coating system to all floor trap:- To floor, wall, upturn and drop including working around floor traps outlet, pipe inlet/outlet, pipe penetration, etc. (All Toilet) 25mm x 25mm cement and sand angle fillet all around vertical and horizontal joints	M2 79 50.00 3,950.00 M 82 15.00 1,230.00																																																																																																																																																																																							
4/13/7/A																																																																																																																																																																																								
4/13/7/B																																																																																																																																																																																								



Note:-									
1) The Contractor shall breakdown his prices in the boxes provided									
2) The rate of sanitary wares and fittings shall be inclusive of all fixing accessories, joints, connection to supply, waste and overflow pipe									
3) Adjustment will be made to the rate accordingly based on the actual cost except the Fixing & Other Cost All inclusive (i.e. item b)									
Supply and fix the following sanitary wares, fittings and accessories including moving, handling, and storing within site									
4/15/1/A	"Orin SMART One Piece Suite Dynawash Flush WC" water closet complete with internal fittings 36L dual flush, "PP" soft close ultra thin seat and cover, fixing bolt and caps, straight outlet connector and 250mm S-trap including "Orin" 12" stainless steel flexible hose, "Orin AV101SS" stainless steel angle valve with flange, etc complete system or other approved equivalent (Female Toilet, Male Toilet, Toilet 1 and Toilet 2)	NO.	8	860.00	6,880.00				
4/15/2/A	"Orin BERLIN close-coupled suite DynaWash WC" water closet complete with internal fittings 36L dual flush, premium "UF" soft close seat and cover, fixing bolt and caps, straight outlet connector and 250mm S-trap including "Orin" 12" stainless steel flexible hose, "Orin AV101SS" stainless steel angle valve with flange, etc complete system or other approved equivalent (Disabled Toilet)	NO.	1	1,030.00	1,030.00				
4/15/2/B	"Orin VARNA" 505mm x 440mm x 150mm high wall hung basin complete with fixing bolts including "Orin" stainless steel pop-up waste with overflow "Orin" 32mm PVC bottle trap or other approved equivalent (Toilet 1 and Toilet 2)	NO.	2	580.00	1,160.00				
4/15/3/A	"Orin PRAGO" 415mm x 415mm x 150mm high semi-recessed basin complete with fixing bolts including "Orin" stainless steel pop-up waste with overflow "Orin" 32mm PVC bottle trap or other approved equivalent (Disabled Toilet)	NO.	1	520.00	520.00				
4/15/3/B	"Orin ONLL-1103217" other other approved equivalent brass chromed wall mounted basin cold tap with quarter turn (Female Toilet and Male Toilet)	NO.	7	110.00	770.00				
4/15/3/C	"Orin SK9922" other other approved equivalent brass chromed single lever basin cold tap (Toilet 1 and Toilet 2)	NO.	2	220.00	440.00				
4/15/4/A	"Orin ON 12000F27" other other approved equivalent brass chromed basin tap with 7" elongated handle (Disabled Toilet)	NO.	1	130.00	130.00				
4/15/4/B	"Orin 9A-6010" ABS chromed shower head complete with stainless steel shower arm and "ORIN 12017C11Q1" brass chromed concealed stopcock or other approved equivalent (Toilet 2)	NO.	1	66.00	66.00				
4/15/4/C	"Orin ONHB-B5222S" brass nozzle bidet spray complete with flexible hose, holder and "ORIN ON202CT1" brass chromed angle valve or other approved equivalent (Disabled Toilet, Female Toilet, Male Toilet, Toilet 1 and Toilet 2)	NO.	9	66.00	594.00				
4/15/5/A	"Orin VA PHA 01" or other approved equivalent stainless steel toilet roll holder (Toilet)	NO.	9	66.00	594.00				
4/15/5/B	"ABG BU4843" 483mm x 430mm x 230mm SUS304 stainless steel under mount one piece craft kitchen sink complete with sink waste, "Orin" 40mm PVC bottle trap or other approved equivalent including support bar or bracket (Pantry)	NO.	2	350.00	700.00				
4/15/5/C	"Orin SS35PST-M" or other approved equivalent matt finish stainless steel single lever kitchen sink mixer (Pantry)	NO.	2	360.00	720.00				
4/15/6/A	"Orin Denver" 375mm x 320mm x 680mm wall hung unral top inlet complete with ceramic waste, bracket and fixing bolts and "Orin OR-AC508" exposed unral flush valve complete with straight pipe and metal spud or other approved equivalent (Male Toilet)	NO.	3	370.00	1,110.00				
4/15/6/B	"Orin ONGB807-600" or other approved equivalent 600mm x 32mm diameter stainless steel straight grab bar (Disabled Toilet)	NO.	1	140.00	140.00				
4/15/6/C	"Orin ON 803" or other approved equivalent 165mm x 750mm x 32mm diameter stainless steel 304 lift up grab bar (Disabled Toilet)	NO.	1	250.00	250.00				
4/15/7/A	"Orin TPE9111" or other approved equivalent size 130mm x 130mm SUS304 & ABS floor trap with anti-insect tile insert	NO.	11	55.00	605.00				
4/15/7/B	"Orin" or other approved equivalent 32mm PVC bottle trap	NO.	3	15.00	45.00				
VANITY COUNTER TOP									
300mm x 600mm "NIRO GRANITE 30x60 GMA25 BLANC 1ST MARMO POLISHED" or other approved equivalent porcelain homogeneous tiles finish vanity counter top including reinforced concrete structure, forming opening for basin or sink, surface preparation, adhesive, etc. complete system as per Architect's Drawing									
4/15/7/C	Overall size (2650-3025-5475)mm C-shape girth for x (600/550/600)mm wide x 100mm high and chamfer all edge as per Architect's Drawing No. GA(A)-02 (Pantry)	NO.	1	6,000.00	6,000.00				
4/15/7/D	Overall size 3290mm long x 600mm wide x 100mm high and chamfer all edge as per Architect's Drawing No. DT(DE)-01-03 (Disabled Toilet)	NO.	1	2,000.00	2,000.00				
4/15/7/E	Overall size 5250mm long x 500mm wide x 230mm high and chamfer all edge as per Architect's Drawing No. FT(DE)-01-05 (Female Toilet)	NO.	1	3,000.00	3,000.00				
4/15/7/A	Overall size 2600mm long x 500mm wide x 230mm high and chamfer all edge as per Architect's Drawing No. MT(DE)-01-05 (Male Toilet)	NO.	1	1,500.00	1,500.00				
URINAL PANEL									
Supply and install approved urinal panel including all fixing accessories fixed to wall as per Architect's drawings									
4/15/7/B	"Orin UD2" or other approved equivalent 360mm x 800mm ceramic urinal division	NO.	2	300.00	600.00				
TOTAL ELEMENT NO. 15 - SANITARY WARES AND FITTINGS					28,854.00				

ELEMENT NO. 16 - PAINTING AND DECORATION

(ALL PROVISIONAL)

Note:-

- 1) The Contractor and paint manufacturer and applicator shall jointly provide a seven (7) years warranty for exterior paint in favour of the Employer or any other parties assigned by the Employer commencing from the Date of Certificate of Practical Completion of Main Contract
- 2) Colour scheme shall be submitted for Architect's approval.
- 3) The measurement of painting to wall shall be square metres to irrespective of the height of wall

WALL AND CEILING

Prepare and apply paint "Nippon Paint" system comprising of one coat of "Nippon Vinilex 5100 Wall Sealer" styrene acrylic water-based primer and two finishing coats of "Nippon Weatherbond", pure acrylic weather resistant paint or other approved equivalent all in accordance to Architect's approval and to the manufacturer's instruction, externally:-

4/16/1/A	Surfaces of plastered wall and column	M2	76	20.00	1,520.00
4/16/1/B	Surfaces of plastered concrete sides and soffit	M2	24	20.00	480.00
4/16/1/C	Surfaces of plastered sloping concrete soffit	M2	19	20.00	380.00
4/16/1/D	Surface of plastered edge of concrete including working to profile of tread and riser overall width exceeding 300mm and not exceeding 400mm high	M	21	10.00	210.00

Prepare and apply paint "Nippon Paint" system comprising of one coat of "Nippon Vinilex 5300 Basecoat", acrylic copolymer water-based base coat and two finishing coats of "Nippon Matex Pro", acrylic copolymer emulsion paint or other approved equivalent all in accordance to Architect's approval and to the manufacturer's instruction, internally:-

4/16/1/E	Surfaces of plastered wall and column	M2	738	8.00	5,904.00
4/16/1/F	Surfaces of dry wall	M2	107	8.00	856.00
4/16/1/G	Surfaces of skim coated concrete soffit	M2	22	8.00	176.00
4/16/1/H	Surfaces of skim coated sloping concrete soffit	M2	17	8.00	136.00
4/16/1/I	Surface of skim coated edge of concrete including working to profile of tread and riser overall width exceeding 300mm and not exceeding 400mm high	M	14	4.00	56.00
4/16/1/K	Surfaces of fibrous plasterboard ceiling	M2	310	8.00	2,480.00
4/16/2/A	Surfaces of fibrous plasterboard ceiling (Measured irrespective of height over Staircase 2)	M2	12	8.00	96.00
4/16/2/B	Surfaces of fibrous plasterboard ceiling, exceeding 3.50m but not exceeding 5.00m high	M2	6	8.00	48.00
4/16/2/C	Surfaces of moisture resistance fibrous plasterboard ceiling	M2	58	8.00	464.00

Prepare and apply "Sika" or other approved equivalent system comprising of two coat of "SikaGuard-700 MY", 1-part water repellent impregnation and colourless protective surface treatment absorbent exposed materials all in accordance to S.O.'s approval and to the manufacturer's instruction, externally:-

4/16/2/D	Surfaces of brick veneer	M2	505	40.00	20,200.00
----------	--------------------------	----	-----	-------	-----------

METAL WORKS

Prepare and apply paint "Nippon Paint" system comprising of one coat primer (shop primed by others), one coat of "Nippon Economy Undercoat" quick dry oil-modified alkylid based and two finishing coats of "Nippon 9000 Gloss Finish" fungus resistant oil-modified alkylid enamel paint or other approved equivalent all in accordance to Architect's approval and to the manufacturer's instruction:-

4/16/2/E	Surfaces of door frame exceeding 150mm and not exceeding 300mm girth	M	35	10.00	350.00
4/16/2/F	Surfaces of mild steel perforated staircase railing as per Architect's Drawing No. ST1(DE)-03-04	M	35	30.00	1,050.00
4/16/2/G	Surfaces of mild steel staircase railing as per Architect's Drawing No. ST2(DE)-03	M	24	30.00	720.00

WOODWORK

Prepare and apply paint "Nippon Paint" system comprising of one coat primer (shop primed by others), one coat of "Nippon Economy Undercoat" quick dry oil-modified alkylid based and two finishing coats of "Nippon 9000 Gloss Finish" fungus resistant oil-modified alkylid enamel paint or other approved equivalent all in accordance to Architect's approval and to the manufacturer's instruction:-

4/16/3/A	Surfaces of door frame exceeding 150mm and not exceeding 300mm girth	M	117	10.00	1,170.00
4/16/3/B	Surfaces of architrave not exceeding 150mm girth	M	234	10.00	2,340.00
4/16/3/C	General surfaces of door leaves	M2	136	30.00	4,080.00



Item	Description	Unit	Qty	Rate (RM)	Contract Amount (RM)	Workdone(%)		Amount (RM)	
						Previous	Current		To Date
	ELEMENT NO. 1 - WORK BELOW LOWEST FLOOR LEVEL (ALL PROVISIONAL) Specification And General Labour Clauses:- <i>For Description and Materials, Workmanship and General Labour Clauses applicable to this bill, see "Bill No. 2 - Specification & Preambles".</i> EXCAVATION WORK Note:- 1) All excavation are measured from existing ground unless otherwise stated 2) The rate for excavation work shall be inclusive of: - a) protecting sides of excavation by temporary shoring such as planking and strutting or steel sheet piling and strutting as required for the type of soil encountered b) Cart away surplus excavated materials to dump site within development area or load, transport and stock pile surplus excavated materials to area of fill whichever as per BQ item described c) All other items as described in the preamble 3) The Contractor is required to observe and comply with the conditions regarding the manner in which excavation works should be carried out as well as other conditions prior to or during the execution of excavation works Excavate, get out, part return, fill in and ram, load, transport excavated materials to area of filling, spread level, compact and remove surplus excavated materials from site For non-suspended ground slab maximum depth not exceeding 1.00m deep HARDCORE Crusher run blinded with sand as described; spread, levelled, well consolidated and watered 150mm Bed beneath non-suspended ground slab CONCRETE WORK CONCRETE Quality control concrete Grade 10:- 50mm Bed as blinding beneath non-suspended ground slab; including all necessary formwork Quality control reinforced vibrated concrete Grade 30:- 175mm Non-suspended ground slab 150mm Non-suspended ground slab 75mm Ramp slab Extra Over for forming thickening to underside of slab for an additional depth of 425mm and an average width of 663mm (Reinforcement measured separately) 100mm wide x 125mm high concrete kerb including all necessary formwork as per Engineer's Drawing No. TDC/H/7463/TEM/01/REV.0 (Reinforcement measured separately) 100mm wide x 100mm high concrete kerb including all necessary formwork as per Engineer's Drawing No. TDC/H/7463/TEM/01/REV.0 (Reinforcement measured separately) REINFORCEMENT Mild steel rod reinforcement as described in:- Kerb 6mm Diameter rod as links and stirrups High tensile steel rod reinforcement as described in:- Non-suspended ground slab 16mm Diameter rod 10mm Diameter rod Kerb 10mm Diameter rod	M3	12	80.00	960.00	100.00		100.00	960.00
5/1/1/A		M2	17	40.00	680.00	100.00		100.00	680.00
5/1/1/C		M2	17	30.00	510.00	100.00		100.00	510.00
5/1/2/A		M2	6	70.00	420.00	100.00		100.00	420.00
5/1/2/B		M2	11	60.00	660.00	100.00		100.00	660.00
5/1/2/C		M2	1	30.00	30.00	100.00		100.00	30.00
5/1/2/D		M3	4	400.00	1,600.00	100.00		100.00	1,600.00
5/1/2/E		M	9	50.00	450.00	100.00		100.00	450.00
5/1/2/F		M	3	50.00	150.00	100.00		100.00	150.00
5/1/2/G		KG	11	5.50	60.50	100.00		100.00	60.50
5/1/2/H		KG	234	5.50	1,287.00	100.00		100.00	1,287.00
5/1/2/J		KG	186	5.50	1,023.00	100.00		100.00	1,023.00
5/1/2/K		KG	11	5.50	60.50	100.00		100.00	60.50



5/1/2/L	Mesh fabric reinforcement cut to size:- Non-suspended ground slab B.R.C. No. A10 (6.16Kg/m ²) mesh fabric reinforcement laid in position with side and end laps (measured nett - no allowance made for laps) FORMWORK <u>Use and waste of sawn formwork as described:-</u> To edge of concrete not exceeding 250mm high To edge of concrete exceeding 500mm high but not exceeding 1000mm high	M2	26	50.00	1,300.00	100.00	100.00	1,300.00	100.00	1,300.00
5/1/2/M		M	3	20.00	60.00	100.00	100.00	60.00	100.00	60.00
5/1/2/N		M	17	50.00	850.00	100.00	100.00	850.00	100.00	850.00
	TOTAL ELEMENT NO. 1 - WORK BELOW LOWEST FLOOR LEVEL				10,101.00			10,101.00		10,101.00
5/2/1/A	ELEMENT NO. 2 - FRAME (ALL PROVISIONAL) CONCRETE WORK CONCRETE <u>Quality control reinforced vibrated concrete Grade 30:-</u> Column REINFORCEMENT <u>High tensile steel rod reinforcement as described in:-</u> Column 12mm Diameter rod 10mm Diameter rod FORMWORK Note:- 1) The measurement for formwork to sides column shall be in square metres to /respective of the height of column <u>Use and waste of sawn formwork as described:-</u> To sides of column	M3	1	400.00	400.00	100.00	100.00	400.00	100.00	400.00
5/2/1/B		KG	135	5.50	742.50	100.00	100.00	742.50	100.00	742.50
5/2/1/C		KG	94	5.50	517.00	100.00	100.00	517.00	100.00	517.00
5/2/1/D		M2	14	63.00	882.00	100.00	100.00	882.00	100.00	882.00
	TOTAL ELEMENT NO. 2 - FRAME				2,541.50			2,541.50		2,541.50
5/3/1/A	ELEMENT NO. 3 - EXTERNAL WALL (ALL PROVISIONAL) BRICKWORK Note:- 1) The rate for brickwall shall be deemed to inclusive of the following - a) Bonding tie and brick reinforcement b) Damp-proof course and grout infill c) All other items as described in the preamble of brickwork <u>Cement and sand brick as described bedded in cement mortar (1:3) with plasticiser:-</u> Half brickwall (115mm thick) reinforced with and including a layer of Exmet 65mm wide at every forth course	M2	29	50.00	1,450.00	100.00	100.00	1,450.00	100.00	1,450.00
	TOTAL ELEMENT NO. 3 - EXTERNAL WALL				1,450.00			1,450.00		1,450.00
5/4/1/A	ELEMENT NO. 4 - INTERNAL WALL AND PARTITION (ALL PROVISIONAL) CONCRETE WORK CONCRETE <u>Quality control reinforced vibrated concrete Grade 30:-</u> Stiffener REINFORCEMENT <u>Mild steel rod reinforcement as described in:-</u>	M3	1	400.00	400.00	100.00	100.00	400.00	100.00	400.00



5/4/1/B	Stiffener 6mm Diameter rod as links and stirrups High tensile steel rod reinforcement as described in:- Stiffener	KG	3	5.50	16.50	100.00	100.00	16.50
5/4/1/C	FORMWORK 10mm Diameter rod Use and waste of sawn formwork as described:- To sides of stiffener	KG	9	5.50	49.50	100.00	100.00	49.50
5/4/1/D	BRICKWORK Note:- 1) The rate for brickwall shall be deemed to inclusive of the following:- a) Bonding tie and brick reinforcement b) Damp-proof course and grout infill c) All other items as described in the preamble of brickwork Cement and sand brick as described bedded in cement mortar (1:3) with plasticiser:- Half brickwall (115mm thick) reinforced with and including a layer of Exmet 65mm wide at every forth course DRY WALL PARTITION Note:- 1) Unless otherwise measured separately, the rates for dry wall partition shall held to include:- a) Framing, jointing, additional treatment to edges and ends, all fixing accessories, etc. complete system all to manufacturer's instruction b) Working around and forming opening for mechanical and electrical services or any other opening, etc. c) Provision of temporary scaffolding required for the works d) Wall preparatory works prior to wall panelling installation Dry wall partition fixed with and including steel stud framing, countersunk/self-drilling screws, nogginos, furring channel, touch up joint, additional framing and boarding for forming opening for door/window, surface preparation to receive painting (measured separately) strictly in accordance with manufacturer's instruction:- 101mm Dry wall partition (approximately) cladded both side with 12.7mm thick "USG Boral Fiberock Aqua-Tough" or other approved equivalent plasterboard; internally	M2	1	63.00	63.00	100.00	100.00	63.00
5/4/1/E		M2	8	50.00	400.00	100.00	100.00	400.00
5/4/2/A		M2	14	100.00	1,400.00	100.00	100.00	1,400.00
	TOTAL ELEMENT NO. 4 - INTERNAL WALL AND PARTITION				2,329.00			2,329.00
5/5/1/A	ELEMENT NO. 5 - ROOF (ALL PROVISIONAL) Note:- 1) Shop drawing is required to be submitted for approval prior commencement of works DESIGN, MODIFY AND REUSE EXISTING METAL DECK ROOFING SYSTEM Design and install metal deck roofing system (approximately 23m2) laid to fall to 5 degree pitch by modifying existing metal deck roofing system including roof truss, purlin, etc. dismantled from existing building complete with all fixing accessories, all cut, frame together and fixed in position as per Engineer's approval (Dismantling of existing roof truss and metal deck measured separately)	Item			3,000.00	100.00	100.00	3,000.00
	TOTAL ELEMENT NO. 5 - ROOF				3,000.00			3,000.00
5/6/1/A	ELEMENT NO. 6 - DOOR (ALL PROVISIONAL) REUSE EXISTING DOOR To install existing door dismantled from existing building:- Timber door overall size 1000mm wide x 2400mm high	NO.	2	100.00	200.00	100.00	100.00	200.00
5/6/1/B	PVC door overall size 750mm wide x 2100mm high	NO.	5	100.00	500.00	100.00	100.00	500.00





METAL DOOR FRAME Approved metal door frame (minimum 1mm thick) complete with stainless steel SUS304 hinges in position, column or wall ties, striker plate, spreader bar, etc.; complete system fill in frame with cement and sand (1:3) mortar fixed strictly as per Manufacturer's instructions and Architect's approval:-									
5/6/1/C	Frame to suit single leaf timber door overall size 1000mm wide x 2400mm high; fixed to 150mm thick brickwall	NO.	2	130.00	260.00	100.00	100.00	100.00	260.00
5/6/1/D	Frame to suit single leaf PVC door overall size 750mm wide x 2100mm high; fixed to 100mm thick dry wall	NO.	5	100.00	500.00	100.00	100.00	100.00	500.00
	TOTAL ELEMENT NO. 6 - DOOR				1,460.00				1,460.00
ELEMENT NO. 7 - IRONMONGERIES (ALL PROVISIONAL) Note:- 1) The Contractor shall breakdown his prices in the boxes provided 2) The rate of ironmongery shall be inclusive of all fixing accessories 3) Adjustment will be made to the rate accordingly based on the actual cost except the fixing cost (i.e. Item b) IRONMONGERY "ISO 825235359" or other approved equivalent privacy cylindrical lock									
5/7/1/A		NO.	7	70.00	490.00	100.00			490.00
	TOTAL ELEMENT NO. 7 - IRONMONGERIES				490.00				490.00
ELEMENT NO. 8 - WALL FINISHES (ALL PROVISIONAL) PLASTERWORK Note:- 1) The rate for plasterwork shall inclusive of:- a) PVC angle beads for all corners (i.e. window, door and wall corner) b) uPVC throating / water drip c) Fibreglass mesh tape / exmet or any other approved treatment for the joint between cement and sand plaster and skim coat finishing d) Plaster to fall at external edge of window Cement and sand (1:3) with an approved plasticiser externally finished with a wood float:- 20mm (min) Plainface to wall and column Cement and sand (1:3) with an approved plasticiser internally finished with a steel trowel:- 20mm (min) Plainface to wall and column									
5/8/1/A		M2	37	50.00	1,850.00	100.00			1,850.00
5/8/1/B		M2	51	50.00	2,550.00	100.00			2,550.00
	TOTAL ELEMENT NO. 8 - WALL FINISHES				4,400.00				4,400.00
ELEMENT NO. 9 - FLOOR FINISHES (ALL PROVISIONAL) PAVING Note:- 1) The rate shall inclusive one layer wire mesh for cement and sand screed thickness 50mm and above Cement and sand (1:3) finished with a steel/ wood trowel to smooth/ semi-smooth/ wet polished finish; including falls and crossfalls:- 25mm (min) Paving, including to fall and crossfall 13mm (min) Finish to drop 50mm high 13mm (min) Finish to drop 25mm high WATERPROOFING Note:-									
5/9/1/A		M2	15	40.00	600.00	100.00			600.00
5/9/1/B		M	2	5.00	10.00	100.00			10.00
5/9/1/C		M	4	5.00	20.00	100.00			20.00



5/9/2/A	M2	25	50.00	1,250.00	100.00	100.00	1,250.00	100.00	1,250.00
5/9/2/B	M	38	15.00	570.00	100.00	100.00	570.00	100.00	570.00
TOTAL ELEMENT NO. 9 - FLOOR FINISHES									
ELEMENT NO. 10 SANITARY WARES AND FITTINGS (ALL PROVISIONAL) REUSE EXISTING SANITARY WARES Note:- 1) The rate of installing existing sanitary wares and fittings shall be inclusive of all fixing accessories, joints, connection to supply, waste and overflow pipe To install existing sanitary wares dismantled from existing building including all fixing accessories, connection to supply, etc.:- Water closet Urinal bowl Hand bidet Toilet roll holder Basin tap SANITARY WARES AND FITTINGS Note:- 1) The Contractor shall breakdown his prices in the boxes provided 2) The rate of sanitary wares and fittings shall be inclusive of all fixing accessories, joints, connection to supply, waste and overflow pipe 3) Adjustment will be made to the rate accordingly based on the actual cost except the Fixing & Other Cost All Inclusive (i.e. item b) Supply and fix the following sanitary wares, fittings and accessories including moving, handling, and storing within site "Orin SMART 500" 500mm x 388mm x 175mm high wall hung basin complete with fixing bolts including "Orin" 32mm PVC bottle trap and waste or other approved equivalent "Orin VA-SG-1010" or other approved equivalent size 150mm x 150mm stainless steel floor trap									
5/10/1/A	NO.	5	100.00	500.00	100.00	100.00	500.00	100.00	500.00
5/10/1/B	NO.	2	80.00	160.00	100.00	100.00	160.00	100.00	160.00
5/10/1/C	NO.	5	20.00	100.00	100.00	100.00	100.00	100.00	100.00
5/10/1/D	NO.	5	20.00	100.00	100.00	100.00	100.00	100.00	100.00
5/10/1/E	NO.	3	20.00	60.00	100.00	100.00	60.00	100.00	60.00
5/10/1/F	NO.	3	310.00	930.00	100.00	100.00	930.00	100.00	930.00
5/10/2/A	NO.	6	45.00	270.00	100.00	100.00	270.00	100.00	270.00
TOTAL ELEMENT NO. 10 SANITARY WARES AND FITTINGS									
ELEMENT NO. 11 - PAINTING AND DECORATION (ALL PROVISIONAL) Note:- 1) The Contractor and paint manufacturer and applicator shall jointly provide a seven (7) years warranty for exterior paint in favour of the Employer or any other parties assigned by the Employer commencing from the Date of Certificate of Practical Completion of Main Contract 2) Colour scheme shall be submitted for Architect's approval. 3) The measurement of painting to wall shall be square metres to irrespective of the height of wall									
TOTAL ELEMENT NO. 11 - PAINTING AND DECORATION									





WALL AND CEILING									
5/11/1/A	Prepare and apply paint "Nippon Paint" system comprising of one coat of "Nippon Vinilex 5100 Wall Sealer" styrene acrylic water-based primer and two finishing coats of "Nippon Weatherbond", pure acrylic weather resistant paint or other approved equivalent all in accordance to Architect's approval and to the manufacturer's instruction, externally:-								
	Surfaces of plastered wall and column	37	20.00	740.00	100.00	100.00	100.00	740.00	
	Prepare and apply paint "Nippon Paint" system comprising of one coat of "Nippon Vinilex 5300 Basecoat", acrylic copolymer water-based base coat and two finishing coats of "Nippon Matex Pro", acrylic copolymer emulsion paint or other approved equivalent all in accordance to Architect's approval and to the manufacturer's instruction, internally:-								
5/11/1/B	Surfaces of plastered wall and column	51	8.00	408.00	100.00	100.00	100.00	408.00	
	Surfaces of dry wall	29	8.00	232.00	100.00	100.00	100.00	232.00	
METAL WORKS									
5/11/1/D	Prepare and apply paint "Nippon Paint" system comprising of one coat primer (shop primed by others), one coat of "Nippon Economy Undercoat" quick dry oil-modified alkyd based and two finishing coats of "Nippon 9000 Gloss Finish" fungus resistant oil-modified alkyd enamel paint or other approved equivalent all in accordance to Architect's approval and to the manufacturer's instruction:-								
	Surfaces of door frame exceeding 150mm and not exceeding 300mm girth	36	10.00	360.00	100.00	100.00	100.00	360.00	
	TOTAL ELEMENT NO. 11 - PAINTING AND DECORATION			1,740.00				1,740.00	
ELEMENT NO. 12 - DEMOLITION WORKS (ALL PROVISIONAL)									
Note:-									
a) The rate / price for demolition and hacking works shall be inclusive of the following -									
i) Removal of debris to Contractor's own dump site									
ii) All precaution and protection works									
iii) All safety measures and temporary support									
b) Contractor to provide clear marking on site of all items required for demolition as indicated in the drawings for confirmation by S.O. prior to commencement of demolition works									
c) All dimensions provided in the drawings and bills of quantities are indicative only. Contractor is required to visit the Site to determine the exact extend of the work. In this respect, Contractor is not entitled to claim for extra cost or time whatsoever									
DEMOLITION WORK									
5/12/1/A	To hack and demolish existing temporary toilet and making good to match existing upon completion of works								
5/12/1/B 5/12/1/C 5/12/1/D	Any Other Works								
	Any other items of works not specifically mentioned above but is shown on drawings or specification, or are required to be carried out for completion of the Works to the approval of the Architect and the authorities (Please specify):-								
									
TOTAL ELEMENT NO. 12 - DEMOLITION WORKS									
				4,000.00				4,000.00	
TOTAL ELEMENT NO. 1 - WORK BELOW LOWEST FLOOR LEVEL									
				10,101.00	-			10,101.00	
				2,541.50	-			2,541.50	
				1,450.00	-			1,450.00	
				2,329.00	-			2,329.00	
				3,000.00	-			3,000.00	
				1,460.00	-			1,460.00	
				490.00	-			490.00	
				4,400.00	-			4,400.00	

TOTAL ELEMENT NO. 9 - FLOOR FINISHES					2,450.00	-			2,450.00
TOTAL ELEMENT NO. 10 SANITARY WARES AND FITTINGS					2,120.00	-			2,120.00
TOTAL ELEMENT NO. 11 - PAINTING AND DECORATION					1,740.00	-			1,740.00
TOTAL ELEMENT NO. 12 - DEMOLITION WORKS					4,000.00	-			-
TOTAL BILL NO. 5 - TEMPORARY TOILET					36,081.50	-			32,081.50



Item	Description	Unit	Qty	NSKCE		TLA		Remarks
				Final Tender Submission		QS Proposal		
				Rate	Amount	Rate	Amount	
ELEMENT NO. 1 - DEMOLITION WORKS (ALL PROVISIONAL) Specification And General Labour Clauses:- <i>For Description and Materials, Workmanship and General Labour Clauses applicable to this bill, see "Bill No. 2 - Specification & Preambles".</i> Note:- a) The rate / price for demolition and hacking works shall be inclusive of the following:- i) Removal of debris to Contractor's own dump site ii) All precaution and protection works iii) All safety measures and temporary support b) Contractor to provide clear marking on site of all items required for demolition as indicated in the drawings for confirmation by S.O. prior to commencement of demolition works c) All dimensions provided in the drawings and bills of quantities are indicative only. Contractor is required to visit the Site to determine the exact extend of the work. In this respect, Contractor is not entitled to claim for extra cost or time whatsoever								
DEMOLITION WORK								
6/11/A	To hack and demolish existing kerb along perimeter fencing (approximately 33m)	Item			400.00		400.00	
6/11/B	To break up existing macadam premix road (approximately 6m2)	Item			300.00		300.00	
6/11/C	To hack and demolish existing brick fencing (approximately 6m) at the location of new entrance gate	Item			500.00		500.00	
6/11/D	To remove tree stump next to existing pump house including backfilling soil to required level (1 No.)	Item			300.00		300.00	
6/11/E	To remove trees at spot turfing area along perimeter fencing including backfilling soil to required level (5 No.)	Item			2,000.00		2,000.00	
6/11/F	To remove trees at the location of new entrance gate outside of building including backfilling soil to required level (2 No.)	Item			1,500.00		1,500.00	
6/11/G	To remove existing road marking all as per Architect's Drawing No. GA(A)-02	Item			1,000.00		1,000.00	
6/11/H	RELOCATION To relocate existing flag pole including dismantling and reinstalling to required location including all necessary excavation, footing, base, additional fixing accessories, etc. complete system	Item			1,200.00		1,200.00	
6/12/A	ROUTING DRAIN To hack and demolish existing 230mm wide half round precast drain including filling to required level (approximately 9m)	Item			1,000.00		1,000.00	
6/12/B	To construct new 230mm wide half round precast drain including drain cover, connection to existing drain, etc. complete system as indicated in Engineer's Drawing No. TDC/H/7463/RD/01/REV.0 (approximately 9m)	M	9	300.00	2,700.00	300.00	2,700.00	
6/12/C	TEMPORARY RELOCATION Allow for temporary diversion of existing services and reinstate to original conditions whenever necessary all to the Architect's approval	Item			8,000.00		8,000.00	
6/12/D	MAKING GOOD EXISTING To make good existing internal premix road as indicated in Engineer's Drawing No. TDC/H/7463/RD/01/REV.0	Item			5,000.00		5,000.00	
6/12/E	To reinstate existing damaged drain whenever necessary	Item			2,000.00		2,000.00	
6/12/F	To make good existing apron slab (approximately 185m2)	Item			4,000.00		4,000.00	
6/12/G	To make good existing kerb along turfing area (approximately 20m)	Item			800.00		800.00	
6/12/H	To make good existing manhole as indicated in Engineer's Drawing No. TDC/H/7463/RD/01/REV.0 (1 No.)	Item			800.00		800.00	
Any Other Works Any other items of works not specifically mentioned above but is shown on drawings or specification, or are required to be carried out for completion of the Works to the approval of the Architect and the authorities (Please specify):-								
6/12/J								
6/12/K								
6/12/L								
TOTAL ELEMENT NO. 1 - DEMOLITION WORKS					31,500.00		31,500.00	
ELEMENT NO. 2 - HOSE REEL TANK PLINTH (ALL PROVISIONAL) EXCAVATION WORK								





1) All excavation are measured from existing ground level unless otherwise stated
1) The rate for excavation work shall be inclusive of -
a) Cart away surplus excavated materials to dump site within development area or load, transport and stock pile surplus excavated materials to area of fill whichever as per BQ item described
b) All other items as described in the preamble
3) The Contractor shall allow loss of fill material into sub-grade during compaction. The thickness stated are finished thickness and no allowance is made for loss of material into sub-grade
4) The Contractor is to study the Engineer's drawings and visit the site to determine the extent of work involved, apply for all necessary permit, allow for all charges, refundable and non-refundable deposit, inspection fee where applicable required by Authorities and complying all their requirements and restriction, and take all necessary precaution while carrying out the Work. The application time for permit shall be included in the contract period, as such, no extension time will be granted if the Contractor failed to obtain the permit.

ROADS

6/4/1/A To excavate through existing turf area to existing road level (approximately 25m2)
6/4/1/B Excavate to road formation level not exceeding 1.00m deep, get out, load, spread level, compact and remove surplus excavate material from site
6/4/1/C Grade over surface of excavation and filling to gradient, crossfall and rolled as described
6/4/1/D 100mm (Consolidated thickness) sand base, spread, levelled and rolled as described
6/4/1/E 300mm (Consolidated thickness) bed of crusher run, spread, levelled in layers, blinded with sand and rolled to gradient and crossfall as described
6/4/1/F 65mm (Finished thickness) layer of asphaltic concrete as binder course (ACBC25), spread, levelled and rolled to fall and chatters including prime coat to road base as described
6/4/1/G 40mm (Finished thickness) layer of asphaltic concrete as wearing course (ACWC20), spread, levelled and rolled to fall and chatters including applying bituminous tack-coat as described
6/4/2/A **Resurfacing of existing road**

The following to external road

6/4/2/B 40mm (Finished thickness) layer of asphaltic concrete as wearing course (ACWC20), spread, levelled and rolled to fall and chatters including applying bituminous tack-coat as described
6/4/2/C Extra over for milling of existing premix pavement including cart away milled materials to the Contractor's own dump site

ROAD MARKING

Prepare and paint with marine epoxy paint in white / light blue colour all as per Architect Drawing No. CP(DE)-02 & 03:-

On finished concrete surfaces

6/4/2/D 100mm Wide full line to form parking lot
6/4/2/E To form motorcycle numbering up to 1 digit
6/4/2/F To form motorcycle numbering up to 2 digit
6/4/2/G To form carpark numbering up to 1 digit
6/4/2/H To form carpark numbering up to 2 digits

On finished premix surfaces

6/4/2/J 100mm Wide broken centre line (measured over gaps)
6/4/2/K 100mm Wide full line to form parking lot
6/4/2/L To form single straight direction arrow
6/4/2/M To form single curved direction arrow
6/4/2/N To form U-turn direction arrow
6/4/2/P To form double curved direction arrow
6/4/2/Q To form carpark numbering up to 1 digit
6/4/2/R To form carpark numbering up to 2 digits
6/4/2/S To form motorcycle numbering up to 1 digit
6/4/2/T To form motorcycle numbering up to 2 digits
6/4/2/U To form handicap logo including background all to the Architect's approval

WHEEL STOPPER

Precast reinforced concrete wheel stopper overall size 595mm x 145mm x 95mm with chamfered edge including all fixing accessories, etc. complete system all to the Authorities' requirement and Architect's approval

6/4/3/A Fixed to apron slab

6/4/3/B Fixed to premix road

TOTAL ELEMENT NO. 4 - ROAD WORKS

ELEMENT NO. 5 - TURFING

(ALL PROVISIONAL)

TURFING

6/4/1/A	M3	48	110.00	1,500.00	1,500.00
6/4/1/B	M2	94	20.00	5,280.00	3,840.00
6/4/1/C	M2	94	20.00	1,880.00	940.00
6/4/1/D	M2	94	40.00	1,880.00	1,880.00
6/4/1/E	M2	94	40.00	3,760.00	3,760.00
6/4/1/F	M2	94	40.00	3,760.00	2,820.00
6/4/2/A	M2	94	40.00	3,760.00	1,974.00
Rate inconsistent with item 6/4/2/B					
6/4/2/B	M2	1,306	21.00	27,426.00	27,426.00
6/4/2/C	M2	1,306	6.00	7,836.00	7,836.00
6/4/2/D	M	110	10.00	1,100.00	1,100.00
6/4/2/E	NO.	2	5.00	10.00	10.00
6/4/2/F	NO.	3	10.00	30.00	30.00
6/4/2/G	NO.	3	5.00	15.00	15.00
6/4/2/H	NO.	1	10.00	10.00	10.00
6/4/2/J	M	53	10.00	530.00	530.00
6/4/2/K	M	255	10.00	2,550.00	2,550.00
6/4/2/L	NO.	5	120.00	600.00	600.00
6/4/2/M	NO.	1	120.00	120.00	120.00
6/4/2/N	NO.	1	120.00	120.00	120.00
6/4/2/P	NO.	1	150.00	150.00	150.00
6/4/2/Q	NO.	6	30.00	30.00	30.00
6/4/2/R	NO.	17	10.00	170.00	170.00
6/4/2/S	NO.	7	5.00	35.00	35.00
6/4/2/T	NO.	17	10.00	170.00	170.00
6/4/2/U	NO.	1	250.00	250.00	250.00
6/4/3/A	NO.	9	40.00	360.00	360.00
6/4/3/B	NO.	17	40.00	680.00	680.00
				54,012.00	58,906.00





6/5/1/A	Note: 1) The rate for turfing shall be inclusive of maintenance for 3 months after Practical Completion Turves as described including trim, level and grades surfaces, 50mm black vegetable soil and watering, attending until firmly establish and replacing badly grown areas as directed by the Architect:- Spot turfing	M2	24	40.00	960.00	40.00	960.00	
	TOTAL ELEMENT NO. 5 - TURFING				960.00		960.00	
6/6/1/A	Note:- 1) The Contractor and paint manufacturer and applicator shall jointly provide a seven (7) years warranty for exterior paint in favour of the Employer or any other parties assigned by the Employer commencing from the Date of Certificate of Practical Completion of Main Contract 2) Colour scheme shall be submitted for Architect's approval. 3) The measurement of painting to wall shall be square metres to irrespective of the height of wall REPAINTING TO EXISTING Prepare and apply paint "Nippon Paint" system comprising of one coat of "Nippon Vinilex 5100 Wall Sealer" styrene acrylic water-based primer and two finishing coats of "Nippon Weatherbond" pure acrylic weather resistant paint or other approved equivalent including all necessary surface preparation for repainting to existing, all in accordance to Architect's approval and to the manufacturer's instruction, externally:- Surfaces of existing perimeter brick fence wall Surfaces of external wall of existing pump house	Item			4,000.00		4,000.00	
6/6/1/B		Item			300.00		300.00	
	TOTAL ELEMENT NO. 6 - PAINTING AND DECORATION				4,300.00		4,300.00	
	ELEMENT NO. 1 - DEMOLITION WORKS				31,500.00		31,500.00	
	ELEMENT NO. 2 - HOSE REEL TANK PLINTH				4,320.00		4,320.00	
	ELEMENT NO. 3 - MILD STEEL FOLDING GATE				15,000.00		15,000.00	
	ELEMENT NO. 4 - ROAD WORKS				64,012.00		64,012.00	
	ELEMENT NO. 5 - TURFING				960.00		960.00	
	ELEMENT NO. 6 - PAINTING AND DECORATION				4,300.00		4,300.00	
	TOTAL BILL NO. 6 - EXTERNAL WORKS				120,092.00		120,092.00	114,492.50

Item	Description	Unit	Qty	Rate	Amount
	PROVISIONAL SUM				
	(ALL PROVISIONAL)				
	Contingencies Sum (Ringgit Malaysia: One Hundred Fifty Thousand Only)	sum	1	150,000.00	150,000.00



CONTRACT DOCUMENTATION - RATE RATIONALIZATION

Item	Description	Unit	Qty	NSKCE		TLA		Difference	Remarks
				Final Tender Submission		QS Proposal			
				Rate	Amount	Rate	Amount	Amount	
BILL NO. 1 - PRELIMINARIES									
1/65	Contractor's All Risks Insurance				3,000.00		3,647.92	647.92	As per receipt submitted
1/67	Employer's Liability and Workmens' Compensation Insurance				-		900.40	900.40	As per receipt submitted
1/73	Performance Bond				2,000.00		1,874.18	(125.82)	Pending for receipt
1/74	Supplementary Clause - Construction Industry Development Board Malaysia (CIDB)				2,000.00		2,100.00	100.00	As per receipt submitted
	TOTAL BILL NO. 1 - PRELIMINARIES				7,000.00		8,522.50	1,522.50	
BILL NO. 4 - MAIN BUILDING WORKS									
ELEMENT NO. 2 - WORK BELOW LOWEST FLOOR LEVEL									
HARDCORE									
<u>Crusher run blinded with sand as described; spread, levelled, well consolidated and watered</u>									
4/2/1/D	230mm Bed beneath non-suspended ground slab	M2	17	60.00	1,020.00	50.00	850.00	(170.00)	Rate is too high as compared to other tenderers
CONCRETE WORK									
CONCRETE									
<u>Quality control concrete Grade 10:-</u>									
4/2/1/E	50mm Bed as blinding beneath footing; including all necessary formwork	M2	32	60.00	1,920.00	30.00	960.00	(960.00)	Rate is too high as compared to other tenderers
4/2/2/A	50mm Bed as blinding beneath ground beam including all necessary formwork	M2	1	60.00	60.00	30.00	30.00	(30.00)	Rate is too high as compared to other tenderers
4/2/2/B	50mm Bed as blinding beneath non-suspended ground slab; including all necessary formwork	M2	17	60.00	1,020.00	30.00	510.00	(510.00)	Rate is too high as compared to other tenderers
<u>Quality control reinforced vibrated concrete Grade 30:-</u>									
4/2/2/F	305mm Non-suspended ground slab (Staircase 1)	M2	5	130.00	650.00	122.00	610.00	(40.00)	Propose all G30 concrete to be consistent at RM400/M3
4/2/2/G	230mm Non-suspended ground slab (Staircase 1)	M2	13	100.00	1,300.00	92.00	1,196.00	(104.00)	Propose all G30 concrete to be consistent at RM400/M3
	TOTAL ELEMENT NO. 2 - WORK BELOW LOWEST FLOOR LEVEL				5,970.00		4,156.00	(1,814.00)	
ELEMENT NO. 3 - FRAME									
PLANTING BAR									
<u>To provide labour, tools and material to drilling holes and to install rebar with Hiiti RE500 V3 epoxy for the following:-</u>									
4/3/2/A	16mm Diameter reinforcement bar (measured separately) embedded approximately 150mm length into existing concrete structure	NO.	4	60.00	240.00	50.00	200.00	(40.00)	Propose rate to be consistent with item 4/3/2/B due to the very small difference in material cost
4/3/2/B	12mm Diameter reinforcement bar (measured separately) embedded approximately 150mm length into existing concrete structure	NO.	20	50.00	1,000.00	50.00	1,000.00	-	
	TOTAL ELEMENT NO. 3 - FRAME				1,240.00		1,200.00	(40.00)	
ELEMENT NO. 4 - EXTERNAL WALL									
CONCRETE WORK									
CONCRETE									
<u>Quality control reinforced vibrated concrete Grade 30:-</u>									
4/4/1/B	200mm Fin wall	M2	65	100.00	6,500.00	80.00	5,200.00	(1,300.00)	Propose all G30 concrete to be consistent at RM400/M3
	TOTAL ELEMENT NO. 4 - EXTERNAL WALL				6,500.00		5,200.00	(1,300.00)	



CONTRACT DOCUMENTATION - RATE RATIONALIZATION

Item	Description	Unit	Qty	NSKCE		TLA		Difference	Remarks
				Final Tender Submission		QS Proposal			
				Rate	Amount	Rate	Amount		
	ELEMENT NO. 5 - INTERNAL WALL AND PARTITION								
	DRY WALL PARTITION								
	Dry wall partition fixed with and including steel stud framing, countersunk/self-drilling screws, noggin, furring channel, touch up joint, additional framing and boarding for forming opening for door/window, surface preparation to receive painting (measured separately) strictly in accordance with manufacturer's instruction:-								
4/5/2/C	101mm Dry wall partition (approximately) clad both sides with 12.5mm thick "USG Boral Standard Core" or other approved equivalent plasterboard; internally	M2	63	10.00	630.00	100.00	6,300.00	5,670.00	RM10/m2 is insufficient to cover for material cost
4/5/2/D	76.5mm Dry wall partition (approximately) clad one side with 12.5mm thick "USG Boral Standard Core" or other approved equivalent plasterboard; internally as box-up (Dry Area)	M2	6	9.00	54.00	90.00	540.00	486.00	RM9/m2 is insufficient to cover for material cost
4/5/2/E	77.2mm Dry wall partition (approximately) clad one side with 12.7mm thick "USG Boral Securerock Glass-Mat Sheathing" or other approved equivalent plasterboard; internally as box-up (Wet Area)	M2	3	9.00	27.00	90.00	270.00	243.00	RM9/m2 is insufficient to cover for material cost
	TOTAL ELEMENT NO. 5 - INTERNAL WALL AND PARTITION				711.00		7,110.00	6,399.00	
	ELEMENT NO. 6 - STAIRCASE, STEPS AND FINISHES								
	CONCRETE								
	Quality control reinforced vibrated concrete Grade 30:-								
4/6/1/C	175mm Landing slab	M2	19	80.00	1,520.00	70.00	1,330.00	(190.00)	Propose all G30 concrete to be consistent at RM400/M3
	STAIRCASE FINISHES								
	PAVING								
	Cement and sand (1:3) finished with a steel/ wood trowel to smooth/ semi-smooth/ wet polished finish; including falls and crossfalls:-								
4/6/2/B	25mm (min) Paving; including to fall and crossfall (Staircase 1)	M2	9	50.00	450.00	40.00	360.00	(90.00)	Rate inconsistent with item 4/13/1/A
	TOTAL ELEMENT NO. 6 - STAIRCASE, STEPS AND FINISHES				1,970.00		1,690.00	(280.00)	



CONTRACT DOCUMENTATION - RATE RATIONALIZATION

Item	Description	Unit	Qty	NSKCE		TLA		Difference	Remarks
				Final Tender Submission		QS Proposal			
				Rate	Amount	Rate	Amount	Amount	
	ELEMENT NO. 7 - UPPER FLOOR CONSTRUCTION								
	CONCRETE WORK								
	CONCRETE								
	Quality control reinforced vibrated concrete Grade 30:-								
4/7/1/A	230mm Suspended slab	M2	45	95.00	4,275.00	92.00	4,140.00	(135.00)	Propose all G30 concrete to be consistent at RM400/M3
4/7/1/D	50mm Ramp slab	M2	1	50.00	50.00	20.00	20.00	(30.00)	Propose all G30 concrete to be consistent at RM400/M3
4/7/1/E	125mm wide x 150mm high concrete kerb including all necessary formwork as per Engineer's Drawing No. TDC/H/7463/2B/02/REV.0 and TDC/H/7463/RB/02/REV.0 (Reinforcement measured separately)	M	63	40.00	2,520.00	50.00	3,150.00	630.00	Rate inconsistent with item 5/1/2/E & F
	TOTAL ELEMENT NO. 7 - UPPER FLOOR CONSTRUCTION				6,845.00		7,310.00	465.00	
	ELEMENT NO. 10 - DOORS								
	CARPENTRY AND JOINERY								
	Approved 40mm thick hollow core timber flush door complete with 4.6mm thick plywood on both sides complete with edging with timber lipping all around all as per Manufacturer's instruction and Architect's Drawing No. TYPE-01. :- (Butt hinges measured separately):-								
4/10/1/A	D1 - Double leaves door overall size 1800mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-01 (Meeting Space)	NO.	2	200.00	400.00	450.00	900.00	500.00	Rate is too low, our supply rate of RM250/No. is higher than your all in rate
4/10/1/B	D2 - Single leaf door overall size 1000mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-01 (Pantry, Care Taker, Event Room, Library, Prayer Room and Counseling Room)	NO.	10	120.00	1,200.00	235.00	2,350.00	1,150.00	Rate is too low, our supply rate of RM142/No. is higher than your all in rate
4/10/1/C	D6 - Single leaf door overall size 1200mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-02 (Corridor)	NO.	1	130.00	130.00	250.00	250.00	120.00	Rate is too low, our supply rate of RM152/No. is higher than your all in rate
	Approved 40mm thick hollow core timber flush door complete with 4.6mm thick plywood on one side and 4.6mm thick WBP plywood on another side complete with edging with timber lipping all around all as per Manufacturer's instruction and Architect's Drawing No. TYPE-01:- (Butt hinges measured separately):-								
4/10/1/D	D3 - Single leaf door overall size 800mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-01 (Toilet 1 and Toilet 2)	NO.	4	160.00	640.00	240.00	960.00	320.00	Rate is too low, our supply rate of RM145/No. is higher than your all in rate
4/10/1/E	D5 - Single leaf door overall size 1000mm wide x 2400mm high as per Architect's Drawing No. DR(SCH)-02 (Disabled Toilet, Female Toilet and Male Toilet)	NO.	3	160.00	480.00	240.00	720.00	240.00	Rate is too low, our supply rate of RM145/No. is higher than your all in rate
	TOTAL ELEMENT NO. 10 - DOORS				2,850.00		5,180.00	2,330.00	
	ELEMENT NO. 11 - IRONMONGERIES								
	IRONMONGERY								
4/11/1/A	"ISEO 200N602S Euro Profile" 60mm mortise entrance lock complete with "ISEO 81695359 High Security F6" 70mm single thumb turn cylinder with nickel finish and "EUROMASTER Plaza EM7822/SQSS" tube lever handle or other approved equivalent (Meeting Space, Pantry, Care Taker, Event Room, Library, Prayer Room, Counseling Room and Corridor)	NO.	13	154.00	2,002.00	250.00	3,250.00	1,248.00	Rate is too low as compared to other tenderers
4/11/2/A	"EUROMASTER EMH53/SS" door hinge overall size 127mm x 76mm x 3mm with 4 ball bearing or other approved equivalent (All Toilet, Meeting Space, Pantry, Care Taker, Event Room, Library, Prayer Room, Counseling Room and Corridor)	NO.	88	66.00	5,808.00	50.00	4,400.00	(1,408.00)	Rate is too high, supply rate for hinges is RM66/No.
	TOTAL ELEMENT NO. 11 - IRONMONGERIES				7,810.00		7,650.00	(160.00)	



CONTRACT DOCUMENTATION - RATE RATIONALIZATION

Item	Description	Unit	Qty	NSKCE		TLA		Difference Amount	Remarks
				Final Tender Submission Rate	Amount	Rate	QS Proposal Amount		
4/12/4/A	ELEMENT NO. 12 - WALL FINISHES BRICK VENEER Supply and install "SUZUKA BL-6101" or other approved equivalent brick veneer laid to pattern, bedded in tile adhesive, jointed and pointed in "SUZUKA GJM-16" or other approved equivalent grouting including cement and sand (1:3) screeded backing all to the Manufacturer's instruction and Architect's drawings and approval Finish to wall, slab, soffit of slab and coping, externally	M2	505	350.00	176,750.00	340.00	171,700.00	(5,050.00)	
	TOTAL ELEMENT NO. 12 - WALL FINISHES				176,750.00		171,700.00	(5,050.00)	
4/13/7/B	WATERPROOFING "SIKA" or other approved equivalent waterproofing system including preparing surfaces, priming and laving, working around floor trap outlet, pipe inlet/outlet, pipe penetration, etc., complete system all as per Manufacturer's specification and instruction and Architect's approval Apply 2 coats "Sika Top Seal 107 RED" 2-part polymer modified cementitious waterproofing and protective coating system at 1.0kg/m2/coat directly onto well prepared and cleaned surfaces and apply "Sikalastic 110" polyurethane liquid applied seamless waterproofing coating system to all floor trap:- 25mm x 25mm cement and sand angle fillet all around vertical and horizontal joints	M	82	20.00	1,640.00	15.00	1,230.00	(410.00)	Rate inconsistent with item 5/9/2/B
	TOTAL ELEMENT NO. 13 - FLOOR FINISHES				1,640.00		1,230.00	(410.00)	
4/14/1/B	ELEMENT NO. 14 - CEILING PLASTERWORK Approved ready-mixed cement based plaster / skim coat applied all in accordance with manufacturer's instruction:- 3mm (min) Plaster to concrete sides and soffit, internally	M2	14	10.00	140.00	15.00	210.00	70.00	Rate inconsistent with item 4/6/2/J
	TOTAL ELEMENT NO. 14 - CEILING				140.00		210.00	70.00	
	TOTAL BILL NO. 4 - MAIN BUILDING WORKS				212,426.00		212,636.00	210.00	



CONTRACT DOCUMENTATION - RATE RATIONALIZATION

Item	Description	Unit	Qty	NSKCE		TLA		Difference	Remarks
				Final Tender Submission Rate	Amount	Rate	Amount		
BILL NO. 5 - TEMPORARY TOILET									
ELEMENT NO. 1 - WORK BELOW LOWEST FLOOR LEVEL									
HARDCORE									
Crusher run blinded with sand as described; spread, levelled, well consolidated and watered									
5/1/1/B	150mm Bed beneath non-suspended ground slab	M2	17	80.00	1,360.00	40.00	680.00	(680.00)	Rate is too high as compared to other tenderers
CONCRETE WORK									
CONCRETE									
5/1/1/C	Quality control concrete Grade 10:- 50mm Bed as blinding beneath non-suspended ground slab; including all necessary formwork	M2	17	50.00	850.00	30.00	510.00	(340.00)	Rate is too high as compared to other tenderers
5/1/2/C	Quality control reinforced vibrated concrete Grade 30:- 75mm Ramp slab	M2	1	50.00	50.00	30.00	30.00	(20.00)	Propose all G30 concrete to be consistent at RM400/M3
5/1/2/D	Extra Over for forming thickening to underside of slab for an additional depth of 425mm and an average width of 663mm (Reinforcement measured separately)	M3	4	400.00	2,000.00	400.00	1,600.00	(400.00)	Amend arithmetical error
FORMWORK									
5/1/2/N	Use and waste of sawn formwork as described:- To edge of concrete exceeding 500mm high but not exceeding 1000mm high	M	17	55.00	935.00	50.00	850.00	(85.00)	Rate inconsistent with item 4/2/3/N
TOTAL ELEMENT NO. 1 - WORK BELOW LOWEST FLOOR LEVEL					5,195.00		3,670.00	(1,525.00)	
ELEMENT NO. 3 - EXTERNAL WALL									
BRICKWORK									
5/3/1/A	Cement and sand brick as described bedded in cement mortar (1:3) with plasticiser:- Half brickwall (115mm thick) reinforced with and including a layer of Exmet 65mm wide at every forth course	M2	29	60.00	1,740.00	50.00	1,450.00	(290.00)	Rate for cement and sand brick should be cheaper than clay brick (BQ Item 4/4/2/E)
TOTAL ELEMENT NO. 3 - EXTERNAL WALL					1,740.00		1,450.00	(290.00)	
ELEMENT NO. 4 - INTERNAL WALL AND PARTITION									
BRICKWORK									
5/4/1/E	Cement and sand brick as described bedded in cement mortar (1:3) with plasticiser:- Half brickwall (115mm thick) reinforced with and including a layer of Exmet 65mm wide at every forth course	M2	8	60.00	480.00	50.00	400.00	(80.00)	Rate for cement and sand brick should be cheaper than clay brick (BQ Item 4/4/2/E)
DRY WALL PARTITION									
5/4/2/A	Dry wall partition fixed with and including steel stud framing, countersunk/self-drilling screws, nogginos, furring channel, touch up joint, additional framing and boarding for forming opening for door/window, surface preparation to receive painting (measured separately) strictly in accordance with manufacturer's instruction:- 101mm Dry wall partition (approximately) clad both side with 12.7mm thick "USG Boral Fiberock Aqua-Tough" or other approved equivalent plasterboard; internally	M2	14	10.00	140.00	100.00	1,400.00	1,260.00	RM10/m2 is insufficient to cover for material cost
TOTAL ELEMENT NO. 4 - INTERNAL WALL AND PARTITION					620.00		1,800.00	1,180.00	



CONTRACT DOCUMENTATION - RATE RATIONALIZATION

Item	Description	Unit	Qty	NSKCE		TLA		Difference	Remarks
				Final Tender Submission Rate	Amount	Rate	Amount		
5/11/1/D	ELEMENT NO. 11 - PAINTING AND DECORATION METAL WORKS Prepare and apply paint "Nippon Paint" system comprising of one coat primer (shop primed by others), one coat of "Nippon Economy Undercoat" quick dry oil-modified alkyd based and two finishing coats of "Nippon 9000 Gloss Finish" fungus resistant oil-modified alkyd enamel paint or other approved equivalent all in accordance to Architect's approval and to the manufacturer's instruction:- Surfaces of door frame exceeding 150mm and not exceeding 300mm grith	M	36	20.00	720.00	10.00	360.00	(360.00)	Rate inconsistent with item 4/16/3/A
	TOTAL ELEMENT NO. 11 - PAINTING AND DECORATION				720.00		360.00	(360.00)	
	TOTAL BILL NO. 5 - TEMPORARY TOILET				8,275.00		7,280.00	(995.00)	
	BILL NO. 6 - EXTERNAL WORKS								
	ELEMENT NO. 2 - HOSE REEL TANK PLINTH								
6/2/1/B	HARDCORE Crusher run blinded with sand as described; spread, levelled, well consolidated and watered 150mm Bed beneath non-suspended ground slab	M2	5	80.00	400.00	40.00	200.00	(200.00)	Rate is too high as compared to other tenderers
6/2/1/C	CONCRETE WORK CONCRETE Quality control reinforced vibrated concrete Grade 30:- 300mm Plinth slab	M2	5	150.00	750.00	120.00	600.00	(150.00)	Propose all G30 concrete to be consistent at RM400/M3
6/2/1/E	REINFORCEMENT High tensile steel rod reinforcement as described in:- Plinth slab 12mm Diameter rod	KG	44	6.00	264.00	5.50	242.00	(22.00)	Rate inconsistent with item 4/2/3/B
6/2/2/A	Plinth 12mm Diameter rod	KG	102	6.00	612.00	5.50	561.00	(51.00)	Rate inconsistent with item 4/2/3/B
6/2/2/B	10mm Diameter rod	KG	29	6.00	174.00	5.50	159.50	(14.50)	Rate inconsistent with item 4/2/3/C
6/2/2/D	FORMWORK Use and waste of sawn formwork as described:- To sides of plinth	M2	8	70.00	560.00	63.00	504.00	(56.00)	Rate inconsistent with item 4/2/3/J
	TOTAL ELEMENT NO. 2 - HOSE REEL TANK PLINTH				2,760.00		2,266.50	(493.50)	



CONTRACT DOCUMENTATION - RATE RATIONALIZATION

Item	Description	Unit	Qty	NSKCE		TLA		Difference	Remarks
				Final Tender Submission Rate	Amount	Rate	Amount	Amount	
ELEMENT NO. 4 - ROAD WORKS	ROADS								
	Excavate to road formation level not exceeding 1.00m deep, get out, load, spread level, compact and remove surplus excavate material from site	M3	48	110.00	5,280.00	80.00	3,840.00	(1,440.00)	Rate inconsistent with item 6/2/1/A
	Grade over surface of excavation and filling to gradient, crossfall and rolled as described	M2	94	20.00	1,880.00	10.00	940.00	(940.00)	Rate is too high as compared to other tenders
	65mm (Finished thickness) layer of asphaltic concrete as binder course (ACBC28), spread, levelled and rolled to fall and chamfers including prime coat to road base as described	M2	94	40.00	3,760.00	30.00	2,820.00	(940.00)	Rate is too high as compared to item 6/4/2/B
6/4/2/A	40mm (Finished thickness) layer of asphaltic concrete as wearing course (ACWC20), spread, levelled and rolled to falls and chamfers including applying bituminous tack-coat as described	M2	94	40.00	3,760.00	21.00	1,974.00	(1,786.00)	Rate inconsistent with item 6/4/2/B
	Resurfacing of existing road								
	The following to external road								
6/4/2/B	40mm (Finished thickness) layer of asphaltic concrete as wearing course (ACWC20), spread, levelled and rolled to falls and chamfers including applying bituminous tack-coat as described	M2	1,305	21.00	27,426.00	21.00	27,426.00	-	
	TOTAL ELEMENT NO. 4 - ROAD WORKS				42,106.00		37,000.00	(5,106.00)	
	TOTAL BILL NO. 6 - EXTERNAL WORKS				44,866.00		39,266.50	(5,599.50)	

