

Project: Biomass Factory

Project Address: Erf 2226, Portion 27, Ellerton Farm, Ixopo, 3276

Tender Document – Harry Gwala Development Agency

Containing:

Section 1 - Preliminary and General

Preliminary and General Summery

Section 2 - Builder's Work

- Bill no 1 Foundations
- Bill no 2 Precast Concrete
- Bill no 3 Concrete, Form Work and Reinforcement
- Bill no 4 Brickwork
- Bill no 5 Waterproofing
- Bill no 6 Doors and Frames
- Bill no 7 Carpentry and Joinery
- Bill no 8 Ceilings
- Bill no 9 Ironmongery
- Bill no 10 Plastering
- Bill no 11 Tilling and Roof
- Bill no 12 Plumbing and Drainage
- Bill no 13 Electrical Work
- Bill no 14 Fittings and Fixtures

Section 3 - Site Works

Section 4 – Day Works

Summary

SECTION 1: - PRELIMINARIES AND GENERAL

R.....

Fixed - Charges Items						
Contractual requirements	Sum	1	R		R	
Site establishments on Site	Sum	1	R		R	
Facilities for the Engineer (SABS 1200 AB)						
Furnished Site Office	Sum	1	R		R	
Name Board as shown on Drawings	Sum	1	R		R	
Provision of a bakkie with a 2 litre engine capacity for the use by the ER for the duration of the project	Months	3	R		R	
Extra over item A1.3.4 for provision of fuel and maintenance cost at 2000km per month	Months	3	R		R	
Facilities for the Contractor						
Offices, storage sheds, workshops, living accommodation, ablution and latrine facilities, tools and equipment, water supplies, electric power, communications, access and plant	Sum	1	R		R	
Dealing with water	Sum	1	R		R	
Generally on site	Sum	1	R		R	
Other fixed change obligations	Sum	1	R		R	
Remove Engineer's and Contractor's site establishment on completion	Sum	1	R		R	
Preparation of risk assessments, safe works procedures, the project H&S File, the H&S plan, provision of protective clothing and other H&S matters that the contractor deems necessary.	Sum	1	R		R	
Completing, updating and checking the Project H&S File and handing over to the Client on completion of the works	Sum	1	R		R	
Comply with Environmental Specification	Sum	1	R		R	
Time Related Items						
Contractual requirements	Sum	1	R		R	
Operate and maintain facilities on the site for the duration of the construction	Sum	1	R		R	
Provisional Sums						
Electrical connection to local authority (ESKOM)	Sum	1	R	30 000,00	R	30 000,00
Equipping of borehole, testing water quality and connection	Sum	1	R	80 000,00	R	80 000,00
12000 m ² site clearance (clear grass, vegetation and trees)	Sum	1	R	30 000,00	R	30 000,00
Kitchen cupboards with granite, Build-in cupboards, furniture and shelves	Sum	2	R	30 000,00	R	60 000,00

Security system (16 Channel 16 Camera Security Recording System With Internet and 3G Phone Viewing), including Industrial steel garage door treated (3.30mx270cm) plus Automation and remote controls for garage door.	No	1	R	60 000,00	R	60 000,00
Stove with oven, standard fridge plus freezer, washing machine, dish washer (x 2 each).	Sum	1	R	40 000,00	R	40 000,00
Air-conditioning system	No	2	R	6 000,00	R	12 000,00

TOTAL PRELIMINARIES AND GENERAL CARRIED TO SUMMARY

R.....

SECTION 2 – BUILDER’S WORK

BILL NO 1

1: FOUNDATIONS

R.....

1/1	Clear the project site	m ²	12000	R	R
1/2	Remove 375mm of existing gravel	m ²	1500	R	R
1/3	Foundation floor to hold 20 tons weight (per designer drawings - Annexure A)	Sum	1	R	R
1/4	Mass excavations in ground not exceeding 2m deep (Allow for bulking)	m ²	1500	R	R
1/5	Excavate in earth for trenches and holes not exceeding 2m deep trenches and compact	m ²	1500	R	R
1/6	Extra over (E.o.) excavation in mass, strip, plumbing, electric, etc. in ground for excavation in soft rock and remove	m ²	1500	R	R
1/7	E. o. excavation in mass, strip, water supply, drainage in ground excavation in hard rock and remove	m ²	1500	R	R
1/8	E.o. excavations for carting away excavated material to a suitable located by the contractor	m ²	1500	R	R
1/9	Filling from excavation, compacted in layers not exceeding 150 under solid floors	m ²	1500	R	R
1/10	Spread and level excavated material over site	m ²	1500	R	R
1/11	Ant proofing under surface bed.	m ²	1500	R	R
1/12	15 Mpa/19 stone mass concrete in strip footings 600x200	m ²	1500	R	R
1/14	15 Mpa mass concrete in surface beds	m ²	1500	R	R
1/15	Type 193 fabric reinforcement in surface beds including extra for reinforced concrete	m ²	1500	R	R

BILL NO 2

2: PRECAST CONCRETE

R.....

2/1	Coping on top of wall	m ²	800	R	R
2/2	Rainwater spouts (galvanized steel square downpipe 110mm x 75mm x 2.7m premier)	No	20	R	R

BILL NO 3**3: CONCRETE, FORMWORK AND REINFORCEMENT****R.....**

3/1	Concrete slab 255mm compl. Incl 18Kg/m2 reinforcement, including isolation of concrete from brick.	m ²	800	R	R
3/2	Concrete beam 210 x 510mm Incl reinf 80 kg/m3.	m	10	R	R
3/3	Concrete column	No	50	R	R

BILL NO 4**4: BRICKWORK****R.....**

4/1	Half brick wall Incl brick force	m ²	102	R	R
4/2	One brick wall including brick force	m ²	482	R	R
a	Building sand per 5.5m3 load in brickwork	m ³	69	R	R
b	Cement per 50Kg bag	Bag	414	R	R
c	Stock bricks	1000	69	R	R
d	Labour	1000	69	R	R
e	75 mm Brick force 20m	Roll	21,04	R	R
f	150 mm Brick force 20m	Roll	116,5	R	R
4/3	E/O for chimney	No	2	R	R
4/4	E/O for brick on edge sills	m	43	R	R
4/5	Building in bath	No	2	R	R
4/6	Concrete lintels	m	214	R	R

BILL NO 5**5: WATERPROOFING****R.....**

5/1	375 Micron embossed black polyethylene damp proof coarse stepped in walls, under sills, ridges, hips, etc.	m	150	R	R
5/2	250 Micron USB Green water proofing under and against surface bed.	m ²	250	R	R
5/3	Vertical water proofing.	m ²	250	R	R
5/4	Cemseal waterproofing to cills, on shower walls and floors.	m	150	R	R
5/5	Derbigum torch-on waterproofing on concrete slab and up stands under ten year guarantee.	m ²	250	R	R
5/6	U.V Barrier (paint) on waterproofing.	m ²	250	R	R
5/7	Acrylic emulsion and polyester membrane waterproofing on top of exposed walls.	m	150	R	R

BILL NO 6**6: DOORS AND FRAMES****R.....**

6/1	Horizontal Timber Door (813 x 2032mm): 45mm Thick semi-solid core flush doors faced both sides with 3mm thick mahogany veneer for polishing including hardwood lipping to edges all round to BS 459 as approved by the project manager (colour to be approved by the Project Manager) plus single rebated and galvanised pressed steel door frames with fitted hinges.	No	64	R	R
6/2	Burglar bars matching doors and frames.	No	10	R	R
6/3	Door meranti 8 panel full	No	64	R	R

BILL NO 7**7: CARPENTRY AND JOINERY****R.....**

7/1	Service shaft fibre cement cover fixed to wall	No	10	R	R
7/2	Skirting labour and rough material	m	100	R	R

BILL NO 8**8: WALLS AND CEILING****R.....**

8/1	Paint wall & ceiling white 20l duram	No	20	R	R
8/2	Fascia and barge board 3mt nutec 10mmx225	No	20	R	R
8/3	Board rhino 6.4 x 1200 x 4200	No	105	R	R
8/4	Prime coat and two coats Wall & All on plastered walls (Internal and External).	m ²	800	R	R
8/5	Industrial Triple Track Sand Gray Aluminum Double Tempered Glass Sliding Window	No	6	R	R
8/6	Ditto in window sill and plaster bands	m	240	R	R
8/7	Prime coat and two coats Polvin on underside of slabs and ceiling.	Sum	1	R	R
8/8	Ditto on cornice in adjacent colour exceeding 150mm and not exceeding 300mm	Sum	1	R	R
8/9	Three coats varnish on timber doors and frames.	Sum	1	R	R
8/10	Extra over for prime coat and two coats Velvoglo.	Sum	1	R	R
8/11	Universal undercoat and two coats enamel on steel frames, fascia.	Sum	1	R	R

8/12	Three coats varnish on skirting, dado rails and sills exceeding 150 and not exceeding 300mm	Sum	1	R	R
8/13	Extra over for prime coat and two coats Velvoglo.	Sum	1	R	R

BILL NO 9

9: IRONMONGERY

R.....

9/1	Three lever lock	No	64	R	R
9/3	Hinge butt bright steel 75mm	No	130	R	R
9/4	Cabin hook and eye	No	30	R	R
9/5	Door stop	No	64	R	R
9/6	Dividing strips between different floor coverings - angle iron	m	50	R	R

BILL NO 10

10: PLASTERING

R.....

10/1	16mm cement plaster on brick walls finished smooth with a suitable trowel (Internal, under slabs and External)	m ²	800	R	R
10/2	Plaster band on wall plus extra over for window sills	m	150	R	R
10/3	Block cement m150 3.5mpa yard	No	200	R	R
10/4	Screed to floors to falls average 50mm thick	m ²	206	R	R

BILL NO 11

11: TILING AND ROOF

R.....

11/1	Ceramic floor tile labour, mortar, glue and silicon	m ²	800	R	R
11/2	Ceramic wall tiles labour mortar, glue and silicon	m ²	800	R	R
11/3	Mosaic shower tiles labour, mortar, glue and silicon	m ²	800	R	R
11/4	Tile floor harmony beige gloss 2m2/box	No	800	R	R
11/5	Tiled skirting labour mortar and glue	m ²	800	R	R
11/6	Carefully remove old roof sheeting and set aside for carting away.	Sum	1	R	R
11/7	Remove rotten, broken and bent purlins and make good to damaged wall including provision of wire ties	Sum	1	R	R
11/8	Remove broken and bent roof trusses and make good to damaged wall including provision of wire ties	No	50	R	R

11/9	Roof construction over structure, rectangular shaped on plan overall size 12,10m x 30,80m long on plan and 1,65m high with 0.90m overhanging eaves on one side, including all wall plates, trusses, girders, jack rafters, permanent bracing, loose connectors, galvanised steel shoes, hangers, bolts and 50 x 76mm purlins at 1000mm centres and 50 x 114mm purlins over eaves.	Sum	1	R	R
	0,8mm Thick IBR galvanised steel roof sheeting with Chromate finish on one side and protective primer coating on reverse side fixed to timber purlins or rails at 1000mm centres:			R	R
11/10	a) Roof covering with 17degrees pitch, in transportable lengths not exceeding 20m.	m ²	1500	R	R
	b) Ridge Capping 462mm girth with roll top and bent down edges along girth.	m	100	R	R
	c) Ridge closer or broad flute closer to suit profile.	m	250	R	R
	d) Eaves closer or narrow flute closer to suit profile.	m	250	R	R
11/11	Double sided FR 430 Fire retardant industrial grade reinforced aluminium foil insulation bounded together with low density polyethene: Insulation sheeting laid taut over timber purlins and fixed concurrent with roof covering including white PVC coated straining wires at 383mm centres.	m ²	1000	R	R
11/12	Primer plus two coats Red superior acrylic acerbated emulsion, roof paint	m ²	1000	R	R
11/13	6 x whilybird: windmaster 610mm tornado	No	6	R	R

BILL NO 12

12: PLUMBING AND DRAINAGE

					R.....
12/1	Pipe sv 50mm 3.0	No	2	R	R
12/2	Sink mixer	No	2	R	R
12/3	Hand basin	No	6	R	R
12/4	Urban basin + ped 51cm white	No	6	R	R
12/5	Trap bath & overflow black 40mmx40mm	No	2	R	R
12/6	Bath tamarin 1700x700 with handles	No	2	R	R

12/7	Shower corner chrome	No	6	R	R
12/8	Extra over for brass trap	No	4	R	R
12/9	Sink drop in 1200x480	No	2	R	R
12/10	Copper pipe 15mm/0.3m	No	2	R	R
12/11	Extra over for combination trap	No	2	R	R
12/12	Prep bowl	No	1	R	R
12/13	Wash trough concrete double with stands	No	4	R	R
12/14	Wash/dishw	No	2	R	R
12/15	Gutter 4.5mt vynadeep x125mm sv	No	30	R	R
12/16	Extra over for trap	No	2	R	R
12/17	Final fix to plumbing points (geyser excluded)	No	21	R	R
12/18	Underground water: 110x50m pn16 hdpe pressure pipe sabs 4427 pe100 - sabs iso 4427 - 1996; design stress - 6.3mpa class 16	m	100	R	R
12/19	Master flow 400 kpa in valve box	No	1	R	R
12/20	Copper supply (balanced pressure)	m	20	R	R
12/21	Hot and cold water supplies: corrugated stainless steel piping systems - compliance with sans 10252-1 and sans 10254	m	100	R	R
12/22	250l geyser compl. with safety valve, drain cock, vacuum breaker, gate valve, 1350 x 650mm tray and pressure regulating valve.	No	4	R	R
12/23	Sewer and storm water pipes - 110mm	m	70	R	R
12/24	Rodding eye cover	No	7	R	R
12/25	Gulley trap complete	No	1	R	R
12/26	2000l septic tank including excavation, fill and carting away.	No	3	R	R
12/27	Grease trap	No	1	R	R
12/28	Double shaft	No	7	R	R
12/29	110 pvc open ventilation pipe, single storey	No	1	R	R

12/30	110 one way ventilation valve	No	3	R	R
12/31	Vent flashing galvanized steel including waterproofing	No	1	R	R
12/32	Full bores 75/100mm	No	8	R	R
12/33	Down pipe in column 75/110mm diameter pvc including fittings	m	54	R	R
12/34	Basic mirror 4mm polished 600mm x 400mm and beveled edges drilled for and fixed with chromium plated dome capped mirror screws with rubber gaskets to plugs in brickwork	No	15	R	R

BILL NO 13

13: ELECTRICAL WORKS

R.....

13/1	Ecc 25.00mm ² x4 cu pvc pvc swa ecc pvc fr blk 600/1000v	m	65	R	R
13/2	Ccg gland bw cap cone br ni + l/n no 3-m32 050303 arm	No	1	R	R
13/3	Ccg shroud no 3 m32 neoprene short 152103	No	1	R	R
13/4	Distribution board srf 36mod 3x12 mini 3ph side-iso 775x510x150 wht s	No	1	R	R
13/5	Cbi mcb qa1 10a 1p 3ka 13mm curve-3 white handle 240v	No	3	R	R
13/6	Cbi mcb qa1 20a 1p 3ka 13mm curve-3 white handle 240v	No	3	R	R
13/7	Cbi earth leakage qa17c 63a sp+n 3ka 26mm 240vav mini no o/l qa17c63	No	2	R	R
13/8	Cbi isolator qa-s-3 63a 3ka 3p 13mm dual qal30063	No	2	R	R
13/9	Upat wall plug nylon + screw 6 x 40mm	No	800	R	R
13/10	Mesmerize atlas flood 100w 9000lm 6500k 2kv surge-pro ml-at-100w-6k	No	22	R	R
13/11	Mesmerize atlas flood 200w 18000lm 6500k 2kv surge- pro ml-at-200w-6k	No	10	R	R
13/12	Matelec daylight switch 20c +led indicator fsw-50001- pl	No	8	R	R
13/13	Crabtree classic socket ind 119x83 double 16a stl white 7392/001p	No	12	R	R
13/14	Crabtree classic switch ind 75x75 2lev 1way 20a steel white 7372p	No	1	R	R
13/15	Bosal conduit 20mm galv stl p/end 4mtr len (60mtr bundle)	m	24	R	R
13/16	Bosal adaptor male 20mm galv stl 76-201-317 threaded	No	20	R	R

13/17	Locknut hex 20mm galv stl	No	20	R	R
13/18	Gland pvc push-in no 0 white	No	120	R	R
13/19	Surfix 1.50mm2 x2+e blk cu pvc 300/500v	No	150	R	R
13/20	Surfix 2.50mm2 x2+e blk cu pvc 300/500v	No	150	R	R
13/21	Cbt cab-clip bc814 sg	No	200	R	R
13/22	Conduit box round 20mm 2w side entry pvc whi	No	60	R	R
13/23	Conduit box round 20mm 3w side entry pvc whi	No	63	R	R
13/24	ILd junction box round 50mm pvc whi	No	123	R	R
13/25	5 x 20mm steel c/h mach screw pkt20	No	14	R	R
13/26	Connector scrut porcelain white midget import	No	380	R	R
13/27	Connector scrut porcelain white normal import	No	380	R	R
13/28	Nitto tape electrical 21 insulation 18mm 20m black	No	1	R	R
13/29	Nitto tape electrical 21 insulation 18mm 20m green	No	1	R	R
13/30	Nitto tape electrical 21 insulation 18mm 20m red	No	0	R	R
13/31	Nitto tape electrical 21 insulation 18mm 20m white	No	1	R	R
13/32	Waco bowl 160mm screw neck glass opal	No	16	R	R
13/33	Wwaco gallery fibreglass 160mm / 6inch +porcelain b22 lamp holder	No	16	R	R
13/34	Swan dist board surf 12mod din populated elu+mcb pvc db-12ps-kit	No	3	R	R
13/35	Crabtree classic switch ind 75x75 3lev 1way 20a steel white 7375p	No	2	R	R
13/36	Crabtree classic switch ind 75x75 1lev 1way 20a steel white 7370p	No	2	R	R
13/37	Airdac 16.00mm2 x1 sne +solid comm cu xlpe 600/1000v	No	127	R	R
13/38	Ccg gland a2 comp br ni + l/n + gasket no 3-m32 053503 unarm	No	3	R	R
13/39	Ccg shroud no 3 m32 neoprene short 152103	No	3	R	R
13/40	Conduit 20mm sabs pvc	No	100	R	R

13/41	Bend solid 20mm pvc whi	No	30	R	R
13/42	Coupling 20mm pvc	No	50	R	R
13/43	Adaptor male 20mm pvc whi	No	50	R	R
13/44	Fat twin 1.50mm2 x2+e whi cu pvc 300/500v	No	1210	R	R
13/45	Fat twin 2.50mm2 x2+e whi cu pvc 300/500v	No	450	R	R
13/46	Polysaddle 20.0mm pvc white round	No	2	R	R
13/47	Mesmerize fitt channel 4ft wired for led wide body fuse ml-oc-4ft-ip2	No	4	R	R
13/48	Ledvance tube led st8e-1.2m 18w 865 6500k 1800lm 4058075429529	No	8	R	R
13/49	Cbi switch +cover 100x50 2lev 1way pvc white l122-p	No	4	R	R
13/50	Cbt exe-mk2 double duct + covers 3m gry	No	4	R	R
13/51	Cbt exe-mk2 double end cap gry	No	2	R	R
13/52	Cbt ct 6896hd-c 16a dedicated sso red sans 164-4	No	11	R	R
13/53	Cbi sso +cov 100x100 duo 16a pvc white ps675r-p	No	41	R	R
13/54	Inlight downlight 64mm straight white body only ds64w-notail	No	80	R	R
13/55	Voltex lamp led 5w gu10 6500k 400lm 120deg 20000hr	No	80	R	R
13/56	Mesmerize lamp holder gu10 with earth sans60598 ml- gu10-h	No	80	R	R
13/57	Cbi switch +cover 100x50 1lev 1way pvc white l120-p	No	30	R	R
13/58	Swan dist board flush 18mod din populated elu+mcb steel db-18sf-kit	No	2	R	R
13/59	Mesmerize atlas flood 30w 2700lm 6500k 2kv surge- pro ml-at-30w-6k	No	3	R	R
13/60	Polysaddles 10.5mm pvc white flat per/100	No	25	R	R
13/61	Bosal conduit 25mm galv stl p/end 4mtr len (44mtr bundle)	m	4	R	R
13/62	Ecc 16.00mm2 x4 cu pvc pvc swa ecc pvc fr blk 600/1000v	m	55	R	R
13/63	Extension box 130x86x41mm pvc whi with knock outs	No	17	R	R
13/64	Extension box 130x130x41mm pvc whi with knock outs	No	15	R	R

13/65	Cbt yt/2 25 x 16mm trunking + lid 3m whi	No	86	R	R
13/66	Swan dist board surf 8mod din populated elu+mcb pvc db-8ps+kit	No	1	R	R
13/67	Airdac 4.00mm2 x1 cne cu xlpe 600/1000v	m	40	R	R
13/68	Swan dist board surf 18mod din populated elu+mcb pvc db-18ps-kit	No	1	R	R
13/69	Mesmerize fitt channel 5ft wired for led wide body fuse ml-oc-5ft-ip2	No	14	R	R
13/70	Ledvance tube led st8e-1.5m 20w 865 6500k 2000lm 4058075437364	No	28	R	R
13/71	Airdac 10.00mm2 x1 sne +solid comm cu xlpe 600/1000v	m	20	R	R
13/72	Ccg gland a2 comp br ni + l/n + gasket no 2-m25 053502 unarm	No	1	R	R
13/73	Ccg shroud no 2 m25 neoprene short 152102	No	1	R	R
13/74	Rml rondo bulkhead slim led 16w polyprop white ip65 rsb/16wled/fo/w	No	4	R	R
13/75	Waco polysaddles 8.5mm pvc white flat per/100	No	25	R	R
13/76	Cbi switch +cover 100x50 3lev 1way pvc white l124-p	No	1	R	R
13/77	Cbi isolator complete 100x100 60a dp pvc white i129-p	No	1	R	R
13/78	Waco bowl 200mm screw neck glass opal	No	2	R	R
13/79	Gallery fibreglass 200mm / 8inch +porcelain b22 lampholder	No	2	R	R
13/80	Mesmerize atlas flood 50w 4500lm 6500k 2kv surge-pro ml-at-50w-6k	No	6	R	R
13/81	33kva @ 230/400v 50hz 1500rpm, dimensions (lxwxh): 2200mm x 950mm x 1050mm, four-cylinder water cooled 4dw92-39d diesel engine, dry weight: 817kg	No	1	R	R
13/82	100W LED Motion Sensor Floodlight	No	20	R	R
13/83	LED Downlights	No	60	R	R

BILL NO 14

14: FITTING / FIXTURES

R.....

14/1	Towel rail (dble 700), towel ring, toilet roll holder and soap dish labour	No	8	R	R
14/2	Fire place/braai compl incl chimney, flue, fittings and cowl labour	No	3	R	R
14/3	Toilet flush front beta	No	6	R	R

14/4	Masonite brown 3.2mm 2440x1220	No	21	R	R	
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TOTAL BUILDER'S WORK CARRIED TO SUMMARY					R.....	
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SECTION 3: - SITE WORKS**R.....**

3/1	12000 m ² Property Fencing - Factory Powder Coated 3D Curved Welded Mesh Fence Panel (2.4m): aperture 50 x 50mm, wire diameter 3.15mm, fully galvanized and must comply with sans requirements. Mesh shall be stretched against the fence and properly tied to the fencing wire. Weld mesh shall be secured by means of soft binding wire at 1.0m centers along all the fencing wires.	Sum	1	R	R
3/2	Renovation of natural grass thatching 20mx20m (synthetic fiber thatch)	No	3	R	R

TOTAL SITE WORKS CARRIED TO SUMMARY**|| R..... ||**

SECTION 4 - DAY WORKS**R.....****LABOUR**

1	Project manager	Hours	480	R	R
2	Foreman	Hours	480	R	R
3	Store man	Hours	480	R	R
4	Night watch	Hours	480	R	R
5	General labour	Hours	480	R	R

PLANT

6	TLB (Wet rate)	Hours	160	R	R
7	Generator (6.5KVA)	Hours	480	R	R

MATERIALS

8	19mm stone	m ³	100	R	R
9	River sand	m ³	100	R	R
10	Standard bricks	m ³	100	R	R
11	Materials	m ³	100	R	R
12	Building sand	m ³	100	R	R

TOTAL DAY WORKS CARRIED TO SUMMARY**|| R..... ||**

SUMMARY

SECTION 1

R

PRELIMINARIES AND GENERAL

R

SECTION 2

R

Bill No. 1	FOUNDATIONS
Bill No. 2	PRECAST CONCRETE
Bill No. 3	CONCRETE, FORMWORK AND REINFORCEMENT
Bill No. 4	BRICKWORK
Bill No. 5	WATERPROOFING
Bill No. 6	DOORS AND FRAMES
Bill No. 7	CARPENTRY AND JOINERY
Bill No. 8	CEILING
Bill No. 9	IRONMONGERY
Bill No. 10	PLASTERING
Bill No. 11	TILING AND ROOF
Bill No. 12	PLUMBING AND DRAINAGE
Bill No. 13	ELECTRICAL WORK
Bill No. 14	FITTINGS / FIXTURES

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SECTION 3

R

SITE WORKS

R

SECTION 4

R

DAY WORKS

R

TOTAL AMOUNT BEFORE VAT

R

VALUE ADDED TAX @ 15%

R

TOTAL AMOUNT AFTER VAT

R