

**APPOINTMENT OF A TURNKEY/DESIGN AND BUILD FOR
CONSTRUCTION OF A 8.50 KM BLOCK PAVED TOWNSHIP
ROAD NETWORK AND STORMWATER COLLECTION AND
DISPOSAL FACILITIES FOR THE FATENG TSE NTSO
EXTENSION 5, 743 SITES, IN PAUL ROUX, DIHLABENG LOCAL
MUNICIPALITY**



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BILL OF QUANTITIES

Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount
	SANS 1200 A	SECTION 1 : PRELIMINARY AND GENERAL				
A1		Fixed-charge items				
A1.1	8.3.1	.01 Contractual Requirements	Sum	1		
A1.2	8.3.2	Establishment of Facilities on Site				
A1.2.1	8.3.2.1	Facilities for the Engineer				
		.01 Furnished offices and conference room	Sum	1		
		.02 2 No Project Name Boards	Sum	1		
		.03 Survey equipment	Sum	1		
A1.2.2	8.3.2.2	Facilities for Contractor:				
		.01 Offices, storage sheds, workshops, living	Sum	1		
	8.3.2.2	.02 Dealing with water				
		a) Generally on site	Sum	1		
		b) Channel and river crossings	Sum	1		
A1.3	8.3.3	.03 Other Fixed Charge Obligations	Sum	1		
A1.4		.04 Accommodation of traffic	Sum	1		
A1.5	8.3.4	.05 Removal of site establishment	Sum	1		
A1.6	SPEC AO	Health and safety:				
A1.6.1	8.2.1	.01 General safety obligations	Sum	1		
A1.6.2	8.2.3	.02 Health and safety plan	Sum	1		
A1.6.3	8.2.4	.03 Construction Safety Officer and other	Sum	1		
				Total Carried Forward		

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				Total Brought Forward		
A1.5		Environmental Compliance				
		.01 Preparation and establishment of all procedures required to achieve and ensure compliance with the requirements of the Environmental Management Programme, RoD and all relevant environmental legislations	Sum	1		
A1.6		HIV/AIDS Awareness				
		.01 Compliance with SANS 1921 Part 6 HIV/ AIDS awareness and regulations	Sum	1		
A1.7		COVID 19 Awareness				
		.02 Compliance with COVID 19 national awareness campaigns and the relevant national regulations and laws	Sum	1		
	SANS					
A2	1200 A	Time-Related Items				
	PSA					
A2.1	8.4.1	.01 Contractual Requirements	Sum	1		
A2.2	8.4.2	Operation and Maintenance of facilities on site for duration of construction				
A2.2.1	8.4.2.1	Facilities for the Engineer				
		.01 Furnished offices and conference room	Sum	1		
		.02 2 No Project Name Boards	Sum	1		
		.03 Use of survey equipment	Sum	1		
A2.2.2	8.4.2.2	Facilities for Contractor:				
		.01 Offices, storage sheds, workshops, living accommodation, ablution and toilet facilities, tools and equipment, water supplies, laboratories, electric power, communications, access and plant	Sum	1		
		.02 Dealing with water				
		a) Generally on site	Sum	1		
		b) Channel and river crossings	Sum	1		
			Total Carried Forward			

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				Total Brought Forward		
A2.3	8.4.3	Supervision for duration of contract	Sum	1		
A2.4	8.4.4	.01 Company and head office overhead costs for the duration of the contract	Sum	1		
A2.5	8.4.5	Other Time-Related Obligations	Sum	1		
A2.6		Dealing with Traffic	Sum	1		
A2.7	SPEC AO	Health and safety:				
A2.7.1	8.2.1	.01 General safety obligations	Sum	1		
A2.7.2	8.2.3	.02 Health and safety plan	Sum	1		
A2.7.3	8.2.4	.03 Construction Safety Officer and other appointments	Sum	1		
A2.100		Administration and supervision of mandatory subcontract work including supervision of SMMEs. Payment will be on progress of the SMME work proportional to the contract participation goal	Sum	1		
A.2.200		Professional Fees for the delivery of the following milestones:	Sum	1		
		.01 Stage 1: Inception Report in accordance with ECSA Scope of Services Guidelines, Clause 3.2.1	Sum	1		
		.02 Stage 2: Preliminary Design Report in accordance with ECSA Scope of Services Guidelines, Clause 3.2.2	Sum	1		
		.03 Stage 3: Detailed Design Report in accordance with ECSA Scope of Services Guidelines, Clause 3.2.3	Sum	1		
		.04 Stage 5: Contract administration and Inspection in accordance with ECSA Scope of Services Guidelines, Clause 3.2.5	Sum	1		
		.05 Stage 6: Close-out Report in accordance with ECSA Scope of Services Guidelines, Clause 3.2.6	Sum	1		
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				Total Brought Forward		
A2.8		Environmental				
A2.8.1		.01 Preparation and establishment of all procedures required to achieve and ensure compliance with the requirements of the Environmental Management Programme, EA and all relevant environmental legislations	Sum	1		
A2.8.2		.02 Provisional sum for Final environmental rehabilitation by specialised contractor	Prov	1		
		.03 Contractors' mark up on Item A2.82	%			
A2.9		HIV/AIDS Awareness				
		.01 Compliance with SANS 1921 Part 6 HIV/ AIDS awareness and regulations	Sum	1		
A2.10		COVID 19 Awareness				
		.02 Compliance with COVID 19 national awareness campaigns and the relevant national regulations and laws	Sum	1		
A3		Sums stated provisionally				
	8.5 SDA8-4					
A3.1		.01 Alterations to existing services by authorities	Sum	1	R30,000.00	R 30,000.00
	SDA8-9					
A3.2		.02 Contractor's overheads, charges and profit on Item A3.1 (State % and extend as an amount)	%			
A3.3		Engineer's Disbursements				
A3.3.1		Allow For Engineer's Representative site travel @1,000 km/month For 12 months	Km	12000	R5.00	R 60,000.00
A3.3.2		Other Disbursements				
		.01 Other disbursements like Engineer's travels, accommodation, office prints, cell phone usage (air time/data), lap top, etc for 12 month period	Sum	1	R800,000.00	R 800,000.00
A3.3.3		Contractor's Mark up on Items A3.3.1 and A3.3.2 (state % and extend as amount)	%			
				Total Carried Forward		

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A3.4.1		Renumeration for the Community Liaison Officer for the 12 month period	Sum	1	120,000.00	
A3.4.2		PSC stipend over the 12 month project period	Sum	1	R120,000.00	
A3.4.3		Contractor's Markup on Items A3.4.1 and A3.4.2	%			
A4		Prime Cost items				
	8.6 PDA8-5					
A4.1		.01 Additional test required by the engineer	-	1	R40,000.00	R 40,000.00
A4.2		.02 Contractor's overheads, charges and profit on Item A4.1 (State % and extend as an amount)	%			
A4.3		.03 Accommodation for the Engineer's Representative (Prime Cost)	Prov	1	R120,000.00	R 120,000.00
A4.4		.04 Contractor's overheads, charges and profit on Item A4.3 (State % and extend as an amount)	%			
A4.5		.05 Engineer's telephone and other communication costs including cell phone costs @R450/week (Prime cost)	Prov	1	R15,000.00	R 15,000.00
A4.6		.06 Contractor's overheads, charges and profit on Item A4.5 (State % and extend as an amount)	%			
A4.7		.07 Provision of accredited on site skills training as outlined in the specification. Including supervision, salaries and other validated costs	Prov	1	R130,000.00	R 130,000.00
A4.8		.08 Contractor's overheads, charges and profit on Item A4.7 (State % and extend as an amount)	%			
A6		Daywork (Provisional)				
A6.1	8.7 PDA8-6	.01 Labour				
A6.1.1		.01 Skilled labour	h	40		
A6.1.2		.02 Semi-skilled labour	h	40		
A6.1.3		.03 Unskilled labour	h	40		
				Total Carried Forward		

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				Total Brought Forward		
A6.2		.02 Materials				
A6.2.1		.01 Allow for net cost of goods or materials actually used	80%	PC sum		
A6.2.2		.02 Contractors" mark up on Item A6.2.1	%	5%		
A6.3		.03 Contractor's own plant on Site				
A6.3.1		.01 Allow for all-inclusive cost of using Contractor's own plant on site	-	PC sum		
A6.3.2		.02 Charge required by contractor on the above subitem	%			
A6.4		.04 Plant hired by the contractor				
A6.4.1		.01 Allow for net cost of hire plant Contractor	-	PC sum		
A6.4.2		.02 Charge required by contractor on item A6.4.1	%			
				Total Carried Forward		

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A6.4.3		Allow provisional sum for survey by surveyor appointed by the Engineer	Prov			
A6.4.4		Contractor's overheads, charges and profit on Item A6.4.3 (State % and extend as an amount)	%			
A6.4.5		Two survey assistants for duration of contract	Sum			
A8		Existing services				
	8.8.4					
A8.1		.01 Location:				
A8.1.1		.01 Locating, protection, alteration and relocation of existing services carried out by authorities	Prov	1	R45,000.00	R 45,000.00
A8.1.2		.02 Percentage adjustment on Item A8.1.1 for Contractor's overheads and profit (state % and extend as an amount)	%			
A8.1.3		.03 Excavation by hand in soft to expose services	m ³	120		
A9		Survey beacons/pegs				
	8.8.5					
A9.1		.01 Search for, record, reference and protect survey stations, bench marks, erf boundary pegs and other reference pegs and expose on completion of Works	Sum	1		
	SDA8-4					
A9.2		.02 Re-establish erf boundary pegs by a Registered Land Surveyor when pegs have been ordered to be removed for the execution of the Works	Prov	1	R50,000.00	R 50,000.00
A9.3		.03 Percentage adjustment on Item A9.2 for Contractor's overheads and profit (State % and extend as an amount)	%			
TOTAL SECTION 1: CARRIED TO SUMMARY						

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Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
DB 1	SANS 1200 DB	SECTION 2 : EARTHWORKS TRENCH EXCAVATION				
DB 1.1	8.3.2	Excavation Excavate in all materials for trenches, backfill, compact and dispose of surplus material for: .01 Stormwater pipes over 400 mm dia and up to 650 mm dia for depths: Over and Up to & including .01 0,0 m 1,0 m .02 1,0 m 2,0 m .03 2,0 m 3,0 m Stormwater pipes over 650 mm dia and up to 1200 mm dia for depths: Over and Up to & including .01 0,0 m 1,0 m .02 1,0 m 2,0 m .03 2,0 m 3,0 m .04 3,0 m 4,0 m .05 4,0 m 4,5 m	m	1890		
DB 1.2	8.3.2	.01 0,0 m 1,0 m .02 1,0 m 2,0 m .03 2,0 m 3,0 m .04 3,0 m 4,0 m .05 4,0 m 4,5 m	m	170		
DB 1.3	8.3.2	Extra over Items DB1: .01 Intermediate excavation .02 Hard rock excavation .03 Hand excavation where ordered by the engineer .01 Soft Material .02 Intermediate Material	m ³	5400		
DB 1.4	8.3.2	Excavate and dispose of unsuitable material from trench bottom (Provisional)	m ³	350		
Total Carried Forward						

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Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
				Total Brought Forward		
DB 2		Excavation ancillaries				
DB 2.1	8.3.3.1	Make up deficiency in backfill material:				
		0.1 From other necessary excavations on Site	m ³	100		
		0.2 By importation from designated borrow pits	m ³	150		
		0.3 By importation from commercial or off-site sources selected by Contractor and approved by Engineer	m ³	5400		
DB 2.2	8.3.3.3	Compaction in road reserves	m ³	2400		
DB 2.3	8.3.4	Particular items:				
		0.1 Shore trench opposite structure or service	m	500		
DB 2.4	8.3.5	Existing services that intersect or adjoin a trench				
		0.1 Services that intersect a trench:				
		.01 Watermains up to 200 mm dia	No	50		
		0.2 Stormwater pipes 300 mm to 600 mm dia	No	2		
		0.3 Cables	No	10		
		Services that adjoin a trench:				
		0.1 Watermains up to 200 mm dia	m	6500		
		0.2 Sewers up to 200 mm dia	m	6500		
		0.3 Overhead telephone	m	50		
		0.4 Overhead electricity	m	20		
				Total Carried Forward		

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Item No	Payment Clause	Short Description	Unit	Quantity	Rate	Amount R c
				Total Brought Forward		
DB 3	1200 DB	Finishing				
DB 3.1	8.3.6.1	Reinstate road surfaces complete with all courses:				
		0.1 Gravel roads	m ²	25000		
		0.2 60 mm brick paved roads	m ²	50		
DB 3.2		Finishes to trenches				
		.01 Reinstate topsoil from stockpile to minimum depth of 150 mm	m ²	49000		
		.02 Reinstate natural grass along working strips 5 m wide	m ²	35000		
DB 4	SABS 1200 DK	Gabions and Pitching (Provisional)				
		.01 Supply all materials, construct and place gabions and mattresses where ordered:				
DB 4.1	8.2.1 a	.02 Surface preparation - Cavities filled with approved excavated rock or material	m ²	50		
DB 4.2	8.2.2	Gabions (Rate to include costs for complete supply of all materials, filling of the cages and construction of the gabions/mattresses):				
		.04 6 x 1 x 1m galvanised wire boxes	m ³	35		
		.05 170 mm thick galvanised reno mattresses	m ²	15		
		.06 Geotextile where ordered (Kaymat U24 or similar approved)	m ²	35		
		.07 Extra over Item B28.2 for grade 15/19 concrete screed, 50mm thick to top of mattresses where ordered	m ³	5.0		
DB 4.3	8.2.5	Stone Pitching (Provisional)				
		a) 300 mm stone pitching. Minimum size 150 mm	m ²	90		
TOTAL SECTION 2 CARRIED TO SUMMARY						

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ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SABS	SECTION 3: EARTHWORKS (ROADS, SUBGRADE)				
	1200 DM					
B1	8.3.2	Preparation of Site:				
B1.1		Preparation and stripping of site/removal of topsoil to 200 mm depth, stockpiling and maintaining	m ³	11,900		
B2	8.3.3	Treatment of road-bed				
B2.1		a) 200mm thick road-bed preparation and compaction of material to minimum of 93% of modified AASHTO maximum density	m ³	11,900		
B2.2		b) In-place treatment of road-bed in intermediate or hard rock material by:				
B2.2.1		i) Ripping	m ³	1,100		
B2.2.2		ii) Blasting	m ³	450		
B3	8.3.4	Cut to fill, borrow to fill:				
B3.1		a) Compact to 93% of modified AASHTO maximum density	m ³	47,600		
B3.2		b) Rockfill, process, and compact	m ³	11,000		
B4	8.3.5	Selected layer (subgrade) compacted to 93% of modified AASHTO maximum density	m ³	11,900		
				Total Carried Forward		

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B5	8.3.6	Extra over items 8.3.4 and 8.3.5 for excavating and breaking down material in:				
		a) Intermediate excavation	m ³	2,500		
		b) Hard excavation	m ³	1,000		
B6	8.3.7	Cut to spoil or stockpile from:				
		a) Soft excavation	m ³	1,500		
		b) Intermediate excavation	m ³	2,500		
		c) Hard excavation	m ³	1,200		
B7	8.3.8	Removal of oversize material	m ³	1,000		
B8	8.3.9	Overbreak of excavation in:				
		a) Intermediate excavation	m ²	500		
		b) Hard excavation	m ²	500		
B9	8.3.10	Materials bladed to windrow	m ³	2,500		
B10	8.3.11	Extra over items 8.3.2, 8.3.4, or 8.3.5 for temporary stockpiling of material	m ³	75,000		
B11	8.3.12	Overhaul	m ³ .km	300,000		
B12	8.3.13	Surface finishes:				
		(a) Topsoiling	m ²	200		
		b) Grassing or other cover	m ²	250		
B13	8.3.15	Catchwater mounds and channels and mitre banks and channels	m ³	250		
TOTAL SECTION 3 CARRIED TO SUMMARY						

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	SABS	SECTION 4: BEDDING (PIPES)				
	1200 LB					
G1	8.2.1	Provision of bedding from trench excavation:				
		(a) Selected granular material	m ³	150		
		(b) Selected fill material	m ³	200		
G2	8.2.2	Supply only of bedding by importation:				
G3	8.2.2.1	From other necessary excavations (provisional):				
		(a) Selected granular material	m ³	250		
		(b) Selected fill material	m ³	200		
G4	8.2.2.2	From borrow pits (provisional):				
		(a) Selected granular material	m ³	250		
		(b) Selected fill material	m ³	200		
G5	8.2.2.3	From commercial sources				
		(a) Selected granular material	m ³	7,800		
		(b) Selected fill material	m ³	2,200		
G6	8.2.3	Concrete bedding cradle (20 Mpa/19)	m ³	15		
G7	8.2.4	Encasing of pipes in 20 Mpa/19 concrete for	m ³	20		
		a) 450 mm pipe	m ³	15		
		b) 600 mm pipe	m ³	20		
		c) 1200 mm pipe	m ³	25		
G8		Extra over Items G1 to G5 for bedding in water logged trenches				
		a) 100mm agricultural drain pipe	m	1,100		
		b) 19 mm stone	m ³	530		
		c) Geotextile Kaymat Fabric	m ²	2,850		
		TOTAL SECTION 4 CARRIED TO SUMMARY				

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	SABS	SECTION 5: STORMWATER DRAINAGE				
	1200 LE					
A1	8.2.1	Supply and lay concrete pipe culverts, Type SC, Class 100D with spigot and socket joints on class C bedding:				
A1.1		450 mm ND	m	5,900		
A1.2		600 mm ND	m	400		
A1.3		1200 mm ND	m	840		
A2	8.2.8	Supply and install manholes, catchpits and the like:				
A2.1		a) Single splay side inlet manholes complete including cover as per Drawing CIV-FM003 for depths (steel reinforcement is measured elsewhere):				
		Over Up to				
A2.1.1		1.0m 1.5 m	No	80		
A2.1.2		1.5m 2.0m	No	130		
A2.1.3		2.0m 2.5 m	No	50		
A2.1.4		2.5 m 3.0 m	No	1		
A2.1.5		Steel reinforcement (R bars)	t	1.8		
A2.2		b) Precast concrete manholes, excluding inlets, for depths:				
		Over Up to				
A2.2.1		1.0m 1.5 m	No	2		
A2.2.2		1.5m 2.0m	No	3		
A2.2.3		2.0m 2.5 m	No	4		
A2.2.4		2.5 m 3.0 m	No	1		
A3	8.2.8	c) Masonry headwall outlet structure for single pipe as per details on Drawing CIV-FM005 for:				
		a) 450 mm pipe	No	1		
		b) 600 mm pipe	No	1		
		c) 1200 mm pipe	No	2		
TOTAL SECTION 5 CARRIED TO SUMMARY						

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	SABS	SECTION 6: SUBBASE				
	1200 ME					
C1	8.3.3	Construct 200 mm thick gravel subbase and shoulder layer (G5) compacted to 95% of modified AASHTO density with material from commercial sources or designated borrow areas	m ³	11,900		
C2	8.3.5	Process subbase material by stabilisation, as when required, and use in the subbase	m ³	5,950		
C3	8.3.8	Stabilizing agent:				
		a) Portland cement	t	0.5		
		b) Portland blast-furnace cement	t	0.5		
		TOTAL SECTION 6 CARRIED TO SUMMARY				

**APPOINTMENT OF A TURNKEY/DESIGN AND BUILD FOR
CONSTRUCTION OF A 8.50 KM BLOCK PAVED TOWNSHIP ROAD
NETWORK AND STORMWATER COLLECTION AND DISPOSAL
FACILITIES FOR THE FATENG TSE NTSOHO EXTENSION 5, 743
SITES, IN PAUL ROUX, DIHLABENG LOCAL MUNICIPALITY**



human settlements
Department of Human Settlements
FREE STATE PROVINCE

BILL OF QUANTITIES

ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SABS	SECTION 7A: SEGMENTED PAVING				
	1200 MJ					
E1	8.2.1	Provision of edge restraints for 60 mm interlocking brick paved area	m	17,000		
E2	8.2.2	b) Construction of paving complete including supply and lay 60 mm interlocking paving bricks Type S-A, Class 35, including bedding sand, all in compliance with SABS 1058	m ²	59,500		
E3	8.2.3	Cutting units to fill edge restraints:				
		(a) Straight cutting	m	200		
		(b) Raking cutting	m	200		
		(c) Circular cutting	m	200		
	SABS 1200MM	SECTION 7B: ANCILLARY WORKS				
F.1		Allowance for Ancillary Works where ordered, like road markings, road signs, reflectors, guardrails, etc	Sum	1	500,000.00	500,000.00
		TOTAL SECTIONS 7 CARRIED TO SUMMARY				

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ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SABS	SECTION 8: KERBING AND CHANNELLING				
	1200 MK					
D1	8.2.2	Concrete kerbing and channelling combined				
D1.1		Pre cast side road kerbing to SABS	m			
D2	8.2.7	Trimming of excavations for concrete-lined open drains in:				
		a) Soft material	m ²	130		
		b) Intermediate material	m ²	120		
		c) Hard material	m ²	425		
D3	8.2.8	Cast in-situ 25 Mpa concrete lining to open drains				
D3.1		Trapezoidal drain	m ³	110		
D3.2		V-drain	m ³	110		
D4	8.2.9	Formwork to cast in-situ concrete lining of open drains (smooth surface finish):				
		a) To sides with formwork on the internal face only	m ²	150		
		b) To sides with formwork on both internal faces and external faces (each face measured)	m ²	150		
		c) To ends of slabs	m ²	250		
D5	8.2.10	Sealed joints in concrete lining of open drains				
		(a) Flexcell and polysulphide sealants	m	8,400		
D6	8.2.12	Welded steel fabric mesh Ref 395 steel reinforcement	t	0.5		
D7	8.2.13	Sprayed bitumen emulsion primer or Polyethylene sheeting for concrete-lined open drains	m ²	17,000		
		TOTAL SECTION 8 CARRIED TO SUMMARY				

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SUMMARY OF TENDERED AMOUNTS

SECTION	DESCRIPTION	AMOUNT TENDERED
SECTION 1	PRELIMINARY AND GENERAL	
SECTION 2	EARTHWORKS PIPE TRENCHES	
SECTION 3	EARTHWORKS (ROADS , SUBGRADE)	
SECTION 4	STORMWATER PIPE BEDDING	
SECTION 5	STORMWATER DRAINAGE	
SECTION 6	SUBBASE	
SECTION 7	SEGMENTED PAVING AND ANCILLARY WORKS	
SECTION 8	KERBING AND CHANNELLING	
	SUB TOTAL	
	ADD: ALLOWANCE FOR CONTINGENCIES @ 20%	
	SUB TOTAL	
	ADD ALLOWANCE FOR ESCALATION @ 6%	
	SUB TOTAL	
	ADD: VAT @ 15%	
TOTAL TENDERED AMOUNT INCLUDING VAT AND ALLOWANCES FOR ESCALATION AND CONTINGENCIES		