

PORT ELIZABETH:

PO Box 27158 Greenacres • Port Elizabeth 6057 • Block 1, First Floor • Greenacres Office Park • 2nd Avenue •
Newton Park • Port Elizabeth 6045 • Eastern Cape South Africa
Telephone: + 27 (0) 41 363-0598 • Facsimile: + 27 (0) 41 363-7646 • e-mail: mailpe@boschprojects.co.za
www.boschprojects.co.za • REGIONAL OFFICES: JOHANNESBURG • EAST LONDON • DURBAN • CAPE TOWN



BP Ref No.: 8010/006/1050

30 September 2019

Amatola Water
The Divisional Director: Planning and Development
P.O. Box X3
Vincent
5217

Attention: Mr G Sibanyoni

Dear Sir,

PROJECT DESCRIPTION: JAMES KLEYNHANS BULK WATER SUPPLY

RE: PROFESSIONAL FEE CLAIM

We enclose herewith our Original Invoice 40020633 Claim No. 51 for the abovementioned project.

We have included a spreadsheet with our banking details for your convenience.

Account Name	BOSCH PROJECTS	Discipline	CIVIL	Address	1 KINGSMEAD WAY, DURBAN
				Postal Code	4001
Phone N°	041 363 0598	Fax N°	041 363 7646		
Bank	STANDARD BANK	Bank Branch	KINGSMEAD	Branch Code	040026
Account Type	CURRENT ACCOUNT	Account N°	051106949		

We trust the above meets with your approval, should you have any queries please do not hesitate to contact the undersigned.

Yours faithfully
BOSCH PROJECTS (PTY) LTD

GREG CUMMINGS - Pr. Eng
DIRECTOR

1988/001231/07 Bosch Projects (Pty) Ltd

Directors:

• MJ Gibbon (Chairman) Pr Eng, BSc Eng (Mech) • R Ramchuran Pr Eng, BSc Eng (Civil)
• V Singh MSc (Geo) (MBL) (non-executive)



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Amatola Water
The Divisional Director: Planning and Development
Private Bag X3
Vincent
5217

Invoice N° : 40020633
Claim N° : 51
Firm VAT Reg N° : 4140118276
Amatola VAT Reg N° : 4770173302
Date : 30-Sep-2019

Attention : Mr G Sibanyoni

TAX INVOICE

PROJECT NAME : James Kleynhans Bulk Water Supply
BP REF NO : 8010/006
PURCHASE ORDER NO : AHPM00258

SUMMARY OF PROFESSIONAL FEES NOW DUE

Amounts due brought forward from summary sheet of the individual contracts

SECTION	DESCRIPTION	AMOUNT DUE
SECTION A	Report Stage, time basis fees	R -
SECTION B	Percentage basis fees	
	- Inception	R -
	- Concept and Viability	R -
	- Design Development	R -
	- Documentation and Procurement	-R 283,500.00
	- Contract Administration and Inspection	R 137,618.89
	- Close-Out	R 220,190.23
SECTION C	Additional Services	R -
SECTION D	Construction Monitoring Staff & CLO	R -
SECTION E	Reimbursable Expenses	R 74,547.29
	Sub-total	R 148,856.41
	Add VAT @15%	R 22,328.46
	TOTAL AMOUNT NOW DUE	R 171,184.87

Signature on behalf of Firm (Bosch Projects) _____ Date 27 September 2019

Amatola Water
Signature _____ Date _____

Amatola Water
Signature _____ For payment of R 171,184.87 Date _____

Accounts are due on presentation and if not settled within 30 days interest will be charged at the prime overdraft rate plus 2%.

BANKING DETAILS:

Bank: Standard Bank, Branch: Kingsmead, Account Number: 051106949, Branch Code: 040026

1988/001231/07 Bosch Projects (Pty) Ltd

Directors:

• MJ Gibbon (Chairman) Pr Eng, BSc Eng (Mech) • R Ramchuran Pr Eng, BSc Eng (Civil)
• V Singh MSc (Geo) (MBL) (non-executive)





REQUEST FOR PAYMENT

Client:	Amatola Water		
Project Title:	James Kleynhans Bulk Water Supply		
Baan Project No:	OP8000021		
Business Partner:	Bosch Projects (CSTE009)		
Start Date:	12-Sep-17	Contract Period:	10 months
Original Compl. Date:	20-Jul-18	Extensions:	10 months
Updated Compl. Date:	20-Aug-19	% Compl. to Date:	77.0%
Completion Achieved:		End Maint Date:	27-Mar-20

Civil: James Kleynhans Bulk Water Supply - Phase 1

Order No. and Payment Cert.	Date	Amount (Incl. VAT)	Retention Amount (Incl. VAT)	Cumulative Amount (Incl. VAT)	Orders Approved (Incl. VAT)	Cumm Orders Approved (Incl. VAT)
AHRK01526					R 10,103,185.73	
AaPM00258					R 5,465,652.65	R 15,569,038.28
1 Inv. No: 40006675	31-Mar-15	R 239,632.28		R 239,632.28		
2 Inv. No: 40006903	30-Apr-15	R 276,795.36		R 516,427.64		
3 Inv. No: 40007142	31-May-15	R 270,000.01		R 786,427.65		
4 Inv. No: 40007535	30-Jun-15	R 360,859.29		R 1,147,286.94		
5 Inv. No: 40007762	31-Jul-15	R 380,016.31		R 1,527,303.25		
6 Inv. No: 40008082	2-Sep-15	R 310,196.13		R 1,837,499.38		
7 Inv. No: 40008420	18-Oct-15	R 182,052.36		R 2,019,551.74		
8 Inv. No: 40008854	2-Jan-16	R 285,418.36		R 2,304,970.10		
9 Inv. No: 40009161	16-Feb-16	R 67,253.96		R 2,372,224.06		
10 Inv. No: 40010029	17-Mar-16	R 841,901.50		R 3,214,125.56		
11 Inv. No: 40011383	24-Aug-16	R 112,293.37		R 3,326,418.93		
12 Inv. No: 40011455	31-Aug-16	R 89,238.28		R 3,415,657.21		
13 Inv. No: 40011536	31-Aug-16	R 53,646.55		R 3,469,303.76		
14 Inv. No: 40011770	30-Sep-16	R 128,938.83		R 3,598,242.59		
15 Inv. No: 40011771	31-Oct-16	R 454,083.96		R 4,052,326.55		
16 Inv. No: 40011772	30-Nov-16	R 332,875.29		R 4,385,201.84		
17 Inv. No: 40011773	31-Dec-16	R 315,473.53		R 4,700,675.37		
18 Inv. No: 40012507	31-Dec-16	R 61,978.52		R 4,762,653.89		
19 Inv. No: 40012587	31-Jan-17	R 319,364.70		R 5,082,018.59		
20 Inv. No: 40012797	28-Feb-17	R 296,953.65		R 5,378,972.24		
21 Inv. No: 40012813	1-Mar-17	R 1,471,809.54		R 6,850,781.78		
22 Inv. No: 40013116	31-Mar-17	R 374,371.85		R 7,225,153.63		
23 Inv. No: 40013282	30-Apr-17	R 221,177.77		R 7,446,331.40		
24 Inv. No: 40013283	31-May-17	R 199,750.39		R 7,646,081.79		
25 Inv. No: 40013775	30-Jun-17	R 53,862.95		R 7,700,944.74		
26 Inv. No: 40014003	31-Jul-17	R 323,027.28		R 8,023,972.02		
27 Inv. No: 40014267	31-Aug-17	R 62,133.73		R 8,086,105.75		
28 Inv. No: 40014545	30-Sep-17	R 303,339.35		R 8,389,445.10		
29 Inv. No: 40014750	31-Oct-17	R 273,792.56		R 8,663,237.66		
30 Inv. No: 40015123	30-Nov-17	R 313,069.02		R 8,976,306.68		
31 Inv. No: 40015210	12-Dec-17	R 311,823.69		R 9,288,130.37		
32 Inv. No: 40015453	31-Jan-18	R 285,791.79		R 9,573,922.16		
33 Inv. No: 40015740	28-Feb-18	R 298,740.76		R 9,872,662.92		
34 Inv. No: 40016003	31-Mar-18	R 286,649.41		R 10,159,312.33		
35 Inv. No: 40016217	30-Apr-18	R 298,793.86		R 10,458,106.19		
36 Inv. No: 40016457	31-May-18	R 333,679.11		R 10,791,785.30		
37 Inv. No: 40016766	30-Jun-18	R 324,038.03		R 11,115,823.33		
38 Inv. No: 40016995	31-Jul-18	R 269,382.18		R 11,385,205.51		
39 Inv. No: 40017215	31-Aug-18	R 202,051.44		R 11,587,256.95		
40 Inv. No: 40017530	30-Sep-18	R 248,159.94		R 11,835,416.89		
41 Inv. No: 40017696	29-Oct-18	R 294,037.64		R 12,129,454.53		
42 Inv. No: 40017977	30-Nov-18	R 452,440.99		R 12,581,895.52		
43 Inv. No: 40017999	1-Dec-18	R 153,538.23		R 12,735,433.75		
44 Inv. No: 40018381	31-Jan-19	R 159,336.51		R 12,894,770.26		
45 Inv. No: 40018624	28-Feb-19	R 349,484.08		R 13,244,254.34		
46 Inv. No: 40018926	31-Mar-19	R 1,136,516.10		R 14,380,770.44		
47 Inv. No: 40019312	30-Apr-19	R 301,291.81		R 14,682,062.25		
48 Inv. No: 40019538	31-May-19	R 200,327.67		R 14,882,389.92		
49 Inv. No: 40019841	30-Jun-19	R 217,899.82		R 15,099,289.74		
50 Inv. No: 40020174	31-Jul-19	R 199,882.42		R 15,299,172.16		
51 Inv. No: 40020633	30-Sep-19	R 171,184.87		R 15,470,357.03		
		Total Expenditure to date		R 15,567,357.03		
				Remainder	R 1,661.25	

NOTES:

Please pay the highlighted amount of **R 171,184.87**

CERTIFIED BY:

Name: G. Sibanyoni

Date:

Signature:

RECOMMENDED BY:

Name: M. Mabulu

Date:

Signature:

APPROVED BY:

Name: S. Qwleka

Date:

Signature:

SUMMARY

PROJECT NAME James Kleynhans Bulk Water Supply
 BP REF NO 8010/006

SUMMARY OF PROFESSIONAL FEES NOW DUE FOR CONTRACT No.

Amounts due brought forward from attachments

SUMMARY

SECTION	DESCRIPTION	AMOUNT DUE
SECTION A	Report Stage, time basis fees	R -
SECTION B	Percentage basis fees	
	- Inception	R -
	- Concept and Viability	R -
	- Design Development	R -
	- Documentation and Procurement	-R 283,500.00
	- Contract Administration and Inspection	R 137,618.89
	- Close-Out	R 220,190.23
SECTION C	Additional Services	R -
SECTION D	Construction Monitoring Staff & CLO	R -
SECTION E	Reimbursable Expenses	R 74,547.29
	Sub-total	R 148,856.41
	Add VAT @15%	R 22,328.46
	TOTAL AMOUNT NOW DUE	R 171,184.87

SECTION A : REPORT STAGE ; TIME BASIS FEES					
PROJECT TITLE : James Kleynhans Bulk Water Supply					
FEES: TARIFF BASIS: Govt. Gazette 38324 - Board Notice 151 of 2014: ECSA: Guideline Scope of Services & Tariffs					
CONTRACT / TENDER No.					
TIME PERIOD September-19					
NAME	STATUS	TASK DESCRIPTION	HOURS	RATE	AMOUNT
G Cummings	Engineer (Civil)		0.0	R 1,630.00	R -
M Vawda	Engineer (Civil)		0.0	R 1,630.00	R -
J Kotze	Engineer (Elec)		0.0	R 1,310.00	R -
R Bode	Technologist		0.0	R 1,461.00	R -
F Maqanda	Technician		0.0	R 904.00	R -
			0.0	R 904.00	R -
N Dyantyi	Technician		0.0	R 390.00	R -
M November	Technician		0.0	R 390.00	R -
S Mekile	Draughtsman		0.0	R 509.00	R -
			0.0	R 509.00	R -
TOTAL REPORT STAGE AMOUNT NOW DUE					R -
NOTE : Where work done under the Report Stage is directly used as part of the final design then appropriate credit shall be given in respect of the design fee. Refer to Section B, item 3.1.					

SECTION B : PERCENTAGE BASIS FEES

PROJECT TITLE : James Kleynhans Bulk Water Supply
 FEES: TARIFF BASIS: Govt. Gazette 38324 - Board Notice 151 of 2014: ECSA: Guideline Scope of Services & Tariffs

CONTRACT / TENDER No. AW2015/16/06

1 COST OF WORKS		Estimate	Actual		
1.1 Total cost of the works	- Actual (Mantambo) - - Actual (ESKOM) - - VO 1 to 5 - First-order Estimate - - First-order Estimate -	Phase 1 Phase 1 Phase 1 Phase 2 Phase 3 & 4 R 48,000,000.00 R 30,000,000.00	R 30,459,792.80 R 2,958,895.24 R 5,726,441.05		
		Total R 78,000,000.00	R 38,144,929.09		
		Combined Total R 12,000,000.00	R 7,000,000.00		
1.2 Reinforced concrete works cost	-	R 3,000,000.00	R 2,000,000.00		
1.3 Structural steel works cost	-				
2 FEE CALCULATION					
2.1 Project Type					
2.1.1 Water Treatment Works					
2.2 Fee Category					
2.2.1 F					
2.3 Limits					
2.3.1 Lower	= 11.00%				
2.3.2 Upper	= 14.00%				
2.4 Project Situation and Engineering Effort					
2.4.1 Alteration and intergration with existing works					
2.4.2 Water retaining structures					
2.4.3 Reinforced Concrete					
2.4.4 Structural steelwork					
2.5 Calculation					
2.5.1 Considering item 2.1 to 2.4	- 11.25% of 117,144,929.09	13,178,804.52			
Adjustment of cost of works = 11.25%	sub-total	13,178,804.52			
2.6	CALCULATION TOTAL		R 13,178,804.52		
3 FEE CALCULATION TOTAL					
3.1 Phase 1	- 11.25% of 38,144,929.09		= R 4,403,804.52		
3.2 Phase 2	- 11.25% of 48,000,000.00		= R 5,400,000.00		
3.3 Phase 3 & 4	- 11.25% of 30,000,000.00		= R 3,375,000.00		
	FEE CALCULATION TOTAL		= R 13,178,804.52		
4 SUMMARY FOR TOTAL PERCENTAGE BASIS FEE FOR PHASE 1 AND 2					
4.1 FEES NOW CLAIMED - PHASE 1					
	% Stage complete	% Fee claimable	Total fee due	Less previous claim	Amount now due
4.1.1 Report Stage					
4.1.2 Inception	100%	5%	220,190.23	220,190.23	R -
4.1.3 Concept and Viability	100%	25%	1,100,951.13	1,100,951.13	R -
4.1.4 Design Development	100%	25%	1,100,951.13	1,100,951.13	R -
4.1.5 Documentation and Procurement	100%	15%	660,570.68	660,570.68	R -
4.1.6 Contract Adm, Eskom and Insp. (Winwater)	63%	25%	515,677.98	515,677.98	R -
4.1.6 Contract Administration and Inspection	203%	25%	2,229,426.04	2,091,807.15	R 137,618.89
4.1.7 Close-Out	100%	5%	220,190.23	0.00	R 220,190.23
4.1 FEES NOW CLAIMED - PHASE 2					
	% Stage complete	% Fee claimable	Total fee due	Less previous claim	Amount now due
4.1.1 Report Stage					
4.1.2 Inception	100%	5%	270,000.00	270,000.00	R -
4.1.3 Concept and Viability	100%	25%	1,350,000.00	1,350,000.00	R -
4.1.4 Design Development	100%	25%	1,350,000.00	1,350,000.00	R -
4.1.5 Documentation and Procurement	35%	15%	0.00	283,500.00	R 283,500.00
4.1.6 Contract Administration and Inspection	0%	25%	0.00	0.00	R -
4.1.7 Close-Out	0%	5%	0.00	0.00	R -
4.2 FEES NOW CLAIMED - PHASE 3 & 4					
	% Stage complete	% Fee claimable	Total fee due	Less previous claim	Amount now due
4.2.1 Report Stage					
4.2.2 Inception	0%	5%	0.00	0.00	R -
4.2.3 Concept and Viability	0%	25%	0.00	0.00	R -
4.2.4 Design Development	0%	25%	0.00	0.00	R -
4.2.5 Documentation and Procurement	0%	15%	0.00	0.00	R -
4.2.6 Contract Administration and Inspection	0%	25%	0.00	0.00	R -
4.2.7 Close-Out	0%	5%	0.00	0.00	R -
	TOTAL PERCENTAGE BASIS FEE NOW DUE				R 74,309.12

NOTE : All values exclude Value Added Tax (VAT)

SECTION C : ADDITIONAL SERVICES ; TIME BASIS FEES

PROJECT TITLE : James Kleynhans Bulk Water Supply

FEES: TARIFF BASIS: Govt. Gazette 38324 - Board Notice 151 of 2014: ECSA: Guideline Scope of Services & Tariffs

CONTRACT / TENDER No. AW2015/16/06

1. ADDITIONAL SERVICE 1

TIME PERIOD September-2019

NAME	STATUS	TASK DESCRIPTION	HOURS	RATE	AMOUNT
G Cummings	Engineer (Civil)		0.0	R 1,994.00	R -
M Vawda	Engineer (Civil)		0.0	R 1,994.00	R -
E Tromp	Engineer (Structural)		0.0	R 1,994.00	R -
J Kotze	Engineer (Elec)		0.0	R 1,461.00	R -
R Bode	Technologist		0.0	R 1,461.00	R -
P Nicholson	Engineer (Elec)		0.0	R 1,463.00	R -
H Foster	Technician		0.0	R 904.00	R -
F Maqanda	Technician		0.0	R 904.00	R -
N Dyantyi	Technician		0.0	R 390.00	R -
M November	Technician		0.0	R 390.00	R -
S Mekile	Draughtsman		0.0	R 509.00	R -
S Dech	Technician			R 400.00	
SUB-TOTAL AMOUNT NOW DUE					R -

2. ADDITIONAL SERVICE 2

Describe service, provide details

TIME PERIOD From - to

NAME	STATUS	TASK DESCRIPTION	HOURS	RATE	AMOUNT
SUB-TOTAL AMOUNT NOW DUE					R -

3. ADDITIONAL SERVICE 3

Describe service, provide details

TIME PERIOD From - to

NAME	STATUS	TASK DESCRIPTION	HOURS	RATE	AMOUNT
SUB-TOTAL AMOUNT NOW DUE					R -

TOTAL ADDITIONAL SERVICES AMOUNT NOW DUE

R -

SECTION E : REIMBURSABLE EXPENSES

PROJECT TITLE : James Kleynhans Bulk Water Supply

FEES: TARIFF BASIS: Govt. Gazette 38324 - Board Notice 161 of 2014: ECSA: Guideline Scope of Services & Tariffs

CONTRACT / TENDER No. AW2015/16/06

1. TRAVEL

DATE	TRAVEL DESTINATION DETAILS	PERSONS / VEHICLE	TRAVEL TIME /Km	RATE	AMOUNT
Aug-2019	Port Elizabeth to Grahamstown return - 2 trips	R Bode	5	R 900.00	R 4,500.00
30-Sep-19	Port Elizabeth to Grahamstown return - 2 trips	P Nicholson	5	R 900.00	R 4,500.00
	EL to Grahamstown return - 2 trips	Nissan (2.2 l)	414 km	R4.9100	R 2,032.74
	Port Elizabeth to Grahamstown return - 2 trips	Toyota (2.2 l)	325 km	R4.9100	R 1,595.75
Aug-2019	Port Elizabeth to East London return - 1 trip	R Bode	5	R 900.00	R 4,500.00
30-Sep-19	Port Elizabeth to East London return - 1 trip		5	R 900.00	R 4,500.00
		Toyota (2.2 l)	1,250 km	R4.9100	R 8,137.50
TOTAL TRAVEL COSTS					R 27,765.99

2. MISCELLANEOUS DISBURSEMENTS

DESCRIPTION	REIMBURSABLE RATES	QUANTITY	AMOUNT
Printing & typing			
Typing documents - A4 page	R28.00	58	R 1,624.00
Typing schedule of quantities - A4 page	R28.00		R -
Duplication	Colour Black/white		
Photocopy - Black & white A4	Cost R0.85	13658	R 11,609.30
Photocopy - Black & white A3	Cost R2.10	0	R -
Drawing prints- paper A4	R1.20	0	R -
Drawing prints- paper A3	R2.40	35	R 84.00
Drawing prints- paper A2	R18.00		R -
Drawing prints- paper A1	R26.00	0	R -
Drawing prints- paper A0	R40.00	0	R -
Drawing prints- Film 0,04mm A4	R2.50		R -
Drawing prints- Film 0,04mm A3	R5.00		R -
Drawing prints- Film 0,04mm A2	R10.00		R -
Drawing prints- Film 0,04mm A1	R20.00		R -
Drawing prints- Film 0,04mm A0	R40.00		R -
Binding, collating, covers			
Printed fabric cover pages / sheet	R4.50		R -
Covers (incl binding) per set A4	R18.00	32	R 576.00
Covers (incl binding) per set A3	R24.00	0	R -
Covers (incl binding) per set A2	R18.00		R -
Spiral binding per 100 pages A4	R6.00		R -
Spiral binding per 100 pages A3	R9.00		R -
Spiral binding per 100 pages A2	R18.00		R -
Computers & Plotting CAD drawings			
Computers			
Applicable to time basis appointments only. Not applicable to typing claimed via item 1.00			
Rates are per hour and are for the use of computers. They include for hardware, software and consumables (ink, paper, etc), personnel are charged separately.			
Computers - used by technical staff	R15.00		R -
Computers - used for CAD purposes	R18.00		R -
Computers - used with GIS	R24.00		R -
Computers - CD with sub-contract info	R35.00	32	R 1,120.00
Plotting CAD drawings			
Applicable to time basis appointments only.			
Rates are per plot and include for hardware, software and consumables (ink, paper, etc), personnel are charged separately.			
	Colour Black/white		
Draft paper A0	R80.00 R52.00		
Draft paper A1	R63.00 R40.00		
Draft paper A3	R34.00 R20.00		
Draft paper A4	R17.00 R11.00		
Quality paper A0	R127.00 R86.00		
Quality paper A1	R115.00 R75.00		
Quality paper A3	R63.00 R40.00		
Quality paper A4	R34.00 R24.00		
Polyester film A0	R173.00 R115.00		
Polyester film A1	R156.00 R103.00		
Polyester film A3	R103.00 R69.00		
Polyester film A4	R63.00 R46.00		
Miscellaneous Expenses eg			
- Courier charges	Cost		
- Special printing, binding etc	Cost		
- Photos	Cost		
- Photos	Cost		
- Accomodation - Henri House	Cost		
- Gauges and fittings - Universal Equipment	Cost		
Costs incurred eg			
- Sub-consultants	Cost + 10%	R0.00	R -
- Lawyers Opinion - Joubert Galpin Searle	Cost + 10%	R0.00	R -
- OH&S - Trapro SHE Consulting	Cost + 10%	R0.00	R -
- Construction Monitoring - GILGAL	Cost + 10%	R0.00	R -
- Social Facilitation - Koloni Energy Solutions	22,000.00 Cost + 10%	R2,200.00	R 24,200.00
- Social Criteria Study and IRS - Setplan	Cost + 10%	R0.00	R -
- Environmental ECO requirements - Terratest	6,880.00 Cost + 10%	R688.00	R 7,568.00
- Special testing - Water Testing - Monitor Laboratories	Cost + 10%	R0.00	R -
- Special measuring - Measurement Control and Instrumentation	Cost + 10%	R0.00	R -
- Air Travel - Travel Wave	Cost + 10%	R0.00	R -
- Tender advert	Cost + 10%	R0.00	R -
- Geotechnical investigations - Tosca lab	Cost + 10%	R0.00	R -
- Surveys - Surplan	Cost + 10%	R0.00	R -
- Legal fees	Cost + 10%	R0.00	R -
TOTAL MISCELLANEOUS EXPENSES			R 46,781.30

TOTAL REIMBURSABLE EXPENSES DUE

R 74,547.29

NOTE : All costs exclude Value Added Tax (VAT)

Terratest (Pty) Ltd

Port Elizabeth

Southern Life Gardens
Block D – Ground Floor
70 – 2nd Avenue
Newton Park
Port Elizabeth
6045

P.O. Box 27308
Greenacres
Port Elizabeth
6057

Telephone:
(041) 390-8700

Fax:
(041) 363-1922

E-Mail:
portelizabeth@jgafrika.com



terratest
Geotechnical, Environmental
& Earth Science Consultants

Tax Invoice 7000633

VAT Registration No: 4310138294

September 18, 2019

Company Registration No: 1969/012354/07

Bosch Projects (Pty) Ltd
VAT 4140118276

P O Box 27158
Greenacres
Port Elizabeth
6057

Project : 41278

Our Ref : TER0808

Attention : Mr R Bode

Project Manager : K Brent

PROJECT : 07 - James Kleynhans Bulk Water Supply ECO
CLIENT REF : RDB/rdb/8010/006/3027/03 - ECO Close-Out Oct 2019

DESCRIPTION	AMOUNT
Professional Fees & Disbursements	6 880.00

	SUB-TOTAL	ZAR	6 880.00
	VAT	ZAR	1 032.00
	TOTAL	ZAR	7 912.00

NOTE :

Unless otherwise agreed in writing, terms of payment are 30 days net. If not paid within 30 days of the date of this invoice, interest at the prevailing prime rate plus 2% will be charged from the date of this invoice.

Some of our clients have been the target of attempted invoice fraud. We have seen incidents where parties are contacted with fraudulent information pertaining to "new" banking details. Our banking details have not changed and we have no intention of changing them in the future.

Should you receive a notification suggesting otherwise, please contact the Project Manager you usually deal with as soon as possible.

Please fax proof of payment to: (011) 807 7006

Bank Name : Standard Bank
Branch Code : 018005
Account No. : 021684642
SWIFT Code : SBZAJJ



KOLONI
ENERGY SOLUTIONS (PTY) LTD
REG No. 2013/069180/07

18 Van Wyk Street, Westering, PORT ELIZABETH, 6025;
Cell:081 724 3633, Fax: 0864650999 Email: mekogeorge@gmail.com

Bosch Projects (Pty) Ltd
PO Box 27158
Greenacres
PORT ELIZABETH
6001
VAT No: 4140118276

20 September 2019

TAX INVOICE 93

PROJECT DETAILS		
Provision of Social Facilitation Services for the James Kleynhans BWS – For the month of September 2019		
Description	Quantity	Amount
Close Out Report	1	R22 800
Total		R 22 800.00
Account to be settled within 30 Days of Invoicing		
Banking Details: Koloni Energy Solutions (Pty) Ltd First National Bank Account Number: 62620350869 Account Type: Business Cheque Branch Code: 261050		

Directors: MG Meko

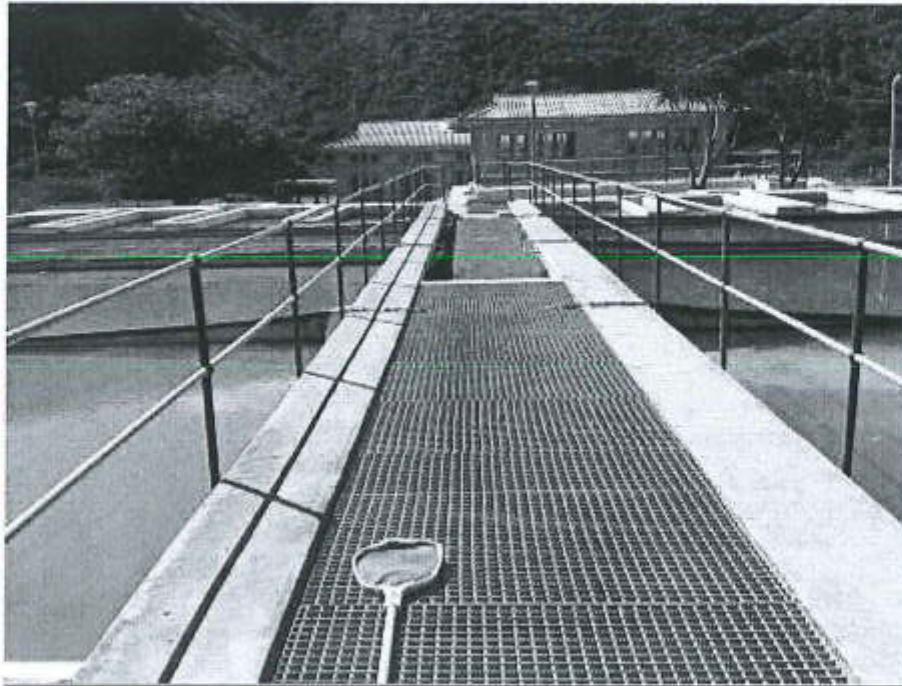
REGIONAL BULK INFRASTRUCTURE GRANT (RBIG)

Eastern Cape

James Kleynhans Bulk Water Supply

AUGMENTATION OF JAMES KLEYNHANS WTW – PHASE 1

MONTHLY PROGRESS REPORT – September 2019



Client:

Makana Local Municipality
Engineering Department
High Street
GRAHAMSTOWN
5099

Tel: [046] 603 6136
Fax: [046] 622 9700



Funded by

Department of Water and Sanitation
Private Bag X 7485
KING WILLIAMS TOWN
5600

Tel: [043] 604 5400
Fax: [043] 604 5401



Implementing Agent:

Amatola Water
6 Lancaster Place
Vincent
EAST LONDON
5241

Tel: [043] 707 3700
Fax: [043] 707 3701



Prepared By:

Bosch Projects (PTY) LTD
Block 2 Greenacres
Newton Park
PORT ELIZABETH
6001

Tel: [041] 363 0598
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1. Introduction

1.1 Project Goal

The intention of the James Kleynhans Bulk Water Supply Project is to plan, design and implement the Augmentation of the existing James Kleynhans Bulk Water Supply System that will provide an assured supply of potable water to approximately 90,100 people who live in the Grahamstown area of the Makana Municipality, located within the Cacadu District Municipality in the Eastern Cape.

The proposed bulk water supply project is to include for the augmentation of the existing water treatment works, storage reservoirs and pump station

The primary objective of the James Kleynhans Water Treatment Works is to produce sufficient quantities of potable water for distribution to the Grahamstown area identified as part of this bulk water supply project, which falls within part of the Makana Municipality.

Funding was then required for the Augmentation of the WTW and Clear Water Pump Station. An application was submitted to DWS for RBIG funding, which has subsequently been approved.

1.2 Project Objective

The project objective is to augment the existing 10 Ml/day WTW to 20Ml/day and design an additional 10 Ml/day WTW and associated pump stations, pipelines, water treatment works and storage requirements to meet the bulk potable water needs for the Bulk Water Supply. These upgrades will allow Amatola Water to provide sustainable water supply is provided to Grahamstown West and East supply areas. Due to the drought conditions that Grahamstown frequently, experiences.

2. Overview of Works

2.1 Change in Scope

The project has been implemented as detailed below,

a) Project Implementation Phases

The following stages were implemented by Makana Local Municipality / DWS;

- Stage 1 – Inception (DWS/Makana) - Completed
- Stage 2 – Concept and Viability (DWS/Makana) – Completed

Due to the Makana Local Municipality being placed under administration, Amatola Water to act as implementing agent as detailed below,

Amatola Water to implement the stages as indicated below

- Stage 3 – Design and development
- Stage 4 – Documentation and Procurement
- Stage 5 – Contract Administration and Documentation
- Stage 6 – Close out

b) Project Construction Phases

Due to AW requirements to meet expenditure the project is to be split in 2 phases. This does not affect the fees, however does have an impact on the disbursements due to the additional construction period.

c) Additional works required

The following additional works was required and as approved at the Technical Meetings and Design Report and other correspondence;

- Additional storage requirement (2.0MI),
- Removal of drying beds and the construction of sludge lagoons / ponds,
- Modifications of horizontal sedimentation tank (V-channels instead of hoppers)
- Additional 15 desludging valves and pipework due to modifications in c) above,
- Additional costs due to ESKOM point of supply,
- Additional transformer required for future pump No 5,
- Telemetry, Additional EI&M,
- Additional minor items included,
- Escalation in costs due to funding application performed in September 2013,
- One project was budgeted for and currently 2 phases are to be implemented,
- Additional fees and disbursement costs due to the implementation of 2 phases,
- ME&I that did not fall within the R8m allowed for in Phase 1 to be allowed in phase 2,
- WinWater Termination costs including legal fees,
- Percentage based fee increase on increased capital cost for Mamlambo,
- Increased additional services and disbursement costs,
- Duplication of construction stage costs (terminated and alternate contractors)

d) Funding

The approval of additional funding for the James Kleynhans BWS project on the approval letter from DWS, Ref 21/12/D5/2, dated 24 Jan 2019 is R237,575,865 for Phase 1, 2, 3 & 4.

The table below reflects the expenditure to date.

FUNDING ALLOCATION	AMOUNT (x R1,000) (Incl. VAT)					
	13/14	14/15	15/16	16/17	17/18	18/19
RBIG	R2,000	R1,738	R3,228	R8,389	R10,320	R 29,851
Counter Funding	R0	R0	R0	R0	R0	R0
Cumulative Expenditure	R2,000	R3,738	R6,966	R15,355	R25,675	R55,527

FUNDING ALLOCATION	AMOUNT (x R1,000) (Incl. VAT)					
	19/20	20/21				
RBIG	R 78,000					
Counter Funding						
Cumulative Expenditure	R 66,057					

The table below reflects the estimated required cashflow for the project (Phase 1, 2, 3 & 4).

YEAR	INITIAL PROJECT COST (x R1,000)	ESTIMATED PROJECT COST (x R1,000)	PHASE'S and STAGE'S
13/14	R2,000	R 2,000	Phase 1 & 2 (Stage 1 & 2)
14/15	R10,000	R1,738	Phase 1 & 2 (Stage 1 & 2)
15/16	R38,940	R 3,228	Phase 1 & 2 (Stage 3 & 4)
16/17	R50,910	R8,389	Phase 1 (Stage 4 & 5)
17/18	R0	R 10,320	Phase 1 (Stage 5)
18/19	R0	R 29,851	Phase 1 (Stage 5 & 6) and Phase 2 (stage 4)
19/20	R0	R 78,000	Phase 1 (Stage 5 & 6) and Phase 2 (stage 4 & 5)
20/21	R0	R 50,000	Phase 2 (Stage 5) Phase 3 & 4 (Stage 1 & 2)
21/22	R0	R 40,000	Phase 2 (Stage 6) and Phase 3 & 4 (Stage 3, 4 & 5)
21/22	R0	R 12,432	Phase 3 & 4 (Stage 5 & 6)
TOTAL	R101,850	R237,575	Phase 1, 2, 3 & 4

3. Project Team & Key Personnel

CLIENT - Makana Municipality

Mr Kelello Makgoka	- Acting Director
Mr Sisanda Ponoshe	- PMU Manager
Mr Mzomhle Radu	- Electrical
Ms Bulelwa Soyizwapi	- Water and Sanitation
Ms Nomhle Ngoqo	- Ward Councillor (Ward 1)
Ms Vuyokazi Harmanus	- CLO

FUNDER – Department of Water and Sanitation (DWS)

Mr Trevor Balzer	- Chief Operation Officer
Ms Portia Makhaya	- Chief Director EC
Mr Martin Labuschagne	- Area Manager: Sarah Baartman DM
Mr Cobus Ferreira	- Project Manager
Mr Neville Lawry	- Water Services Regulation

IMPLEMENTING AGENT – Amatola Water (AW)

Mrs Vuyo Zitumane	- CEO
Ms Asanda Gidana	- Director Operations
Mr Sazile Qweleka	- PMU
Mr Barry Weyer	- Regional Engineering Manager
Mr Andre Dyer	- Water Services Operations Manager
Mr Gopolang Sibanyoni	- Project Manager
Mr Chris Nair	- Operations

ENGINEER – Bosch Projects (BP)

Mr Greg Cummings	- Project Director
Mr Rowan Bode	- Project Engineer – Civil
Mr Jaco Kotze	- Engineer – Electrical & Instrumentation
Mr Philip Nicholson	- Engineer – Electrical
Mr Hendrik Foster	- Engineer – Structural

CONTRACTOR – Mamlambo Construction (MC)

Mr Craig Shearar	- Chief Executive Officer
Mr Colin Beard	- Chief Commercial Officer
Mr Brian Potter	- Contracts Manager
Mr Calan Trollope	- Construction Manager
Mr Dane Whittal	- Site Foreman
Mr Eric Mgxuma	- Concrete Foreman
Mr Etienne Lummis	- Safety Officer
Mrs Nozanele Khondleka	- Safety Manager and Contracts Administrator

CONSTRUCTION MONITORING – Gilgal

Mr James Nyila	- Director
Mr Vuyani Hoyi	- Resident Engineer

OCCUPATIONAL HEALTH AND SAFETY – Trapro SHE Consulting

Mr Masande Jubase	- Managing Member
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ENVIRONMENTAL CONTROL OFFICER - TERRATEST

Mr Richard Fyvie	- Project Manager
Ms Cherize Mattheus	- Environmental Scientist

SOCIAL FACILITATOR - KOLONI ENERGY SOLUTIONS

Director	- Mr George Meko
----------	------------------

4. Progress

4.1 Milestones

<u>Description</u>	<u>Status</u>	<u>Planned</u>	<u>Actual Date</u>
AW - Purchase Order	Approved		07 August 2015
Scoping Report	Approved	December 2013	20 January 2014
Social Criteria Section Report	Approved	December 2013	20 January 2014
Technical Feasibility Report	Approved	December 2013	20 January 2014.
Implementation Readiness Study	Approved	March 2014	06 June 2014
Preliminary Design and Technical Research Investigation	Approved	March 2014	06 June 2014
Design Report and Drawings	Approved	January 2016	15 & 20 July 2016
Phase 1			
Bid Documentation	Complete	Oct 2015	14 Oct 2015
Bid Advert	Complete	16 Oct 2015	16 Oct 2015
Bid clarification meeting	Complete	26 Oct 2015	26 Oct 2015
Bid Closing	Complete	13 Nov 2015	13 Nov 2015
Bid Evaluation Report	Complete	03 Dec 2015	30 Nov 2015
Award of Contract	Complete	Jan 2016	11 Apr 2016
Delays – Contract award Dispute	Complete		Apr to Aug 2016
Purchase order issued	Complete	Jan 2016	21 Oct 2016
Document signed	Complete	Jan 2016	16 Sept 2016
Construction Commencement	Complete	Feb 2016	16 Sept 2016
Site Handover	Complete	Feb 2016	08 Sept 2016
Contract Administration - Terminated	Complete	Feb 2016	08 Sept 2016
Slow Progress - Letters to Contractor	Complete		Nov to Feb 2017
Delays – Contractor off site	Complete		Jan to April 2017
Legal Opinion sent to AW – From Engineer	Complete		24 March 2017
Dissatisfaction Claim and Delay & Extension of Time Claim – From Contractor	Complete		04 April 2017
Responded to the Dissatisfaction and Delay Claim – From Engineer	Complete		20 April 2017
Letter of Demand – From Contractor	Complete		21 April 2017
Respond to letter of Demand – From Engineer	Complete		26 April 2017
Consultation Meeting – All Parties	Complete		04 May 2017
Grounds for Termination, no progress - From Engineer	Complete		04 May 2017
Termination of Contractor – From AW	Complete		05 May 2017
Offer of Consensual Termination – From Engineer	Complete		08 May 2017
Engineers Ruling on Claims – From Engineer	Complete		12 May 2017
Acceptance of Consensual Termination – From Contractor	Complete		23 May 2017
Acceptance of Consensual Termination – From Engineer	Complete		25 May 2017
Contractor to Vacate Site	Complete	09 June 2017	30 June 2017
Motivation to be presented to BAC for the dismissal of Contractor - AW	Complete	23 June 2017	14 June 2017
Appointment of the 2 nd best Contractor - AW	Complete	30 June 2017	14 June 2017

MAMLAMBO - Current			
Tender Acceptance Notice to Mamlambo			20 June 2017
Award of Contract – MAMLAMBO	Complete	20 July 2017	23 June 2017
Purchase order issued	Complete	28 July 2017	25 July 2017
Document signed	Complete	11 August 2017	26 July 2017
Construction Commencement	Complete	28 August 2017	12 September 2017
Site Handover	Complete	25 August 2017	02 August 2017
Suspension of Works Due to Non - Payment - Commence	Complete	29 June 2018	29 June 2018
Suspension of Works Due to Non-Payment - Lifted	Complete	14 September 2018	14 September 2018
Claim 1 – Late Payment of PC 3	15 – w.days	20 May 2018	11 Feb 2019
Claim 2 – Late Payment of PC 8	40 – w.days	23 Sept 2018	11 Feb 2019
Claim 3 – Late Payment of PC 8 & 10	15 – w.days	26 Oct 2018	11 Feb 2019
Claim 4 – Late Appointment of Electrical sub-contractor and VO's	85 – w.days	12 Nov 2018	11 Feb 2019
Claim 5 – Nature of outages permitted	63 – w.days	18 Apr 2019	14 June 2019
Claim 6 – Delay in outage approval due to late submission of existing pump test	6 – w.days	07 July 2019	
Claim 7 – Delay in outage approval due to Makana LM Arts Festival	15 – w.days	Pending	
Completion	Planned	20 July 2018	
Revised Completion	Current	08 July 2019	
Practical Completion	Complete		20 August 2019
Anticipated Completion	Pending	15 August 2019	03 September 2019
Phase 2			
Documentation	Complete	Oct/Nov 2016	09 Nov 2016
Bid Spec/Procurement Approval	Outstanding	Dec 2016	
Construction – Phase 2	Outstanding	Sept/Oct 2019	Delay due to Termi., Susp. and Lack of Funding and Cancellation of Tender
Contract Administration	Outstanding	Oct/Nov 2019	
Completion			
Revised Completion			
Anticipated Completion			

4.2 Outstanding Issues / Delays

Phase 1

- The project has been delayed by 12 months due to the non-performance of the Terminated Contractor (Winwater).
- The project has been further delayed by 2.5 months due to the suspension of the Contract due to the late payment of PC 8 and PC 10.
- The project has been further delayed by 4.5 months due to the late approvals of E&I sub-contractor and VO's 2, 3 & 4.
- In terms of the Main Contract the E&I sub contract allowed a contract duration of 40 weeks, however due to the late approval for E&I sub-contractor above it was reduced to 24 weeks to try and complete on the 27 March 2019. This was not possible or achievable.
- The reasons for the above are due to equipment coming from offshore, taking longer, and the water crisis in Makana LM where it is not possible to shut the plant down for longer than 8hrs in a 1-week cycle. The revised completion date was 08 June 2019.
- Makana LM indicated no outages during Arts Festival and there was also a delay in one outage due to the test results received from Makana LM late.

Phase 2

- Currently awaiting appointment of Contractor from Amatola Water BAC recommendation.
- The delay in Phase 1 does not impact the award of Phase 2.
- Cancellation of Tender and Re-tender
- Re-tender 20 September 2019
- Closing 11 October 2019

4.3 Construction

- a) Phase 1 - Augmentation of the James Kleynhans WTW - Contract No: AW2015/16/06

Progress

Refer to attached Employers Agents Representative Monthly Report for July 2019.

Construction

Awarded Value	R 41 252 306.58
Construction Commence	12 September 2017
Construction Period	40 Weeks
Completion date	20 July 2018
Delays	239 working days
Anticipated Completion date	28 July 2019
Practical Completion Date	20 August 2019
Final Completion Date	17 September 2019
Final Approval Certificate	TBA

Expenditure

The Terminated Contractors (Winwater) expenditure was R6, 121,864.74 (Incl. VAT). This amount includes the ESKOM point of supply of R3,372,912.57.

Construction payment certificates submitted by Mamlambo Construction for all Certificates (21 No) amount to – R 37,741,893.18 (Incl. VAT).

Outstanding Issues / Delays

- The project has been delayed by 12 months due to the non-performance of the Terminated Contractor (Winwater).
- The project has been further delayed by 2.5 months due to the suspension of the Contract due to the late payment of PC 8 and PC 10.
- The project has been further delayed by 4.5 months due to the late approvals of E&I sub-contractor and VO's 2, 3 & 4.
- In terms of the Main Contract the E&I sub contract allowed a contract duration of 40 weeks, however due to the late approval above it was reduced to 24 weeks to try and complete on the 27 March 2019.
- The above has not been possible due to equipment coming from offshore, taking longer, and the water crisis in Makana LM where it is not possible to shut the plant down for longer than 8hrs in a 1-week cycle. The revised completion date is now 28 June 2019.
- Makana LM indicated no outages during Arts Festival and there was also a delay in one outage due to the test results received from Makana LM late. The revised completion date is now 28 July 2019.
- For the OEMPr (Operational Environmental Management Programme) a sample of the sludge from the WTW was collected by Terratest and submitted to Jones Exova Laboratories in the Western Cape. The sample was subjected to a full waste type

assessment analysis. The waste type was then determined as per section 7(1) and 7(2) of GN635 contained in National Environmental Management Waste Act (Act 59 of 2008). The waste type was then applied to the relevant Landfill Class of GN636 of NEMWA. This was done for input into the OEMPr for the new sludge beds in terms of appropriate disposal, amongst other management measures, of the sludge. The OEMPr to be sent for Amatola Water's for comment.

Current Risks

- Works not completed as programmed due to previous termination,
- Delays to adequate water supply and delivery in the area.
- Additional costs
- Additional Funds Required
- Reduction of funds for 2017/2018 as per DWS letter 26 January 2018.
- Claims due to late payments
- Claim for Delay in approval of VO's and E&I appointment
- Suspension of the works was agreed with AW and lasted from the 29 June 2018 to 14 September 2018 due to non-payment of Contractors PC 8 & PC 10
- E&I Delays and frustrations with existing transformers and pumps
- Due to only two pumps available only one pump can run for extended periods during commissioning due to the limitations imposed by need to repair floor of old switching room for space to be re-used for new LV panel and the soft starters.

SMME's

SMME's to be appointed as per AW Supply Chain Policy.

CPA

CPA is applicable to this Contract

Variation Orders

The following Variation Orders have been issued and approved.

Variation Orders:

No	Description	Amount (excl. VAT)	Date Issued	Date Approved
VO1	50mm dia By-pass valves and actuators (R311,514.30) and Difference in value for Armorflex Blocks (R 411,056.39)	R 722,570.69	11 July 2017	17 July 2017
VO2	Site Security during site closure (R75,098.22) and Sludge removal from sludge thickener (R185,565.60) not performed	R 75,098.22	06 October 2017	27 Sept 2018
VO3	3 No Non-return Valves (R212 457.64)	R 212,457.64	01 December 2017	27 Sept 2018
VO4	Costs for additional walls to a 2.0Ml reservoir, supply and delivery of the temporal storage container including concrete slab, Rate for fixing of DPC to Outlet Structures, Construction of reinforced supernatant pump chamber, Construction of reinforced Concrete Chamber A4, and Construction of	R 1 887 197.22	16 February 2018	27 Sept 2018

	Reinforced Concrete Chamber C5, Fittings for Chambers A0, A3, C4 and C5, in the James Kleynhans WTW – Phase 1. Difference in comparison between tender price and purchase price for the Supply of steel specials and fittings. (R 1,882,320.85) and Allowance for additional CPA due to 20month delay in award (R 455,603.95) and Omission of the backwash tank (-R 733,676.04)			
VO 5	Claim 1 - Delay (15 days) due to Late-Payment of Payment Certificates (R 213,510.00), and Claim 2 - Delay (40 days) due to Late Payment of Payment Certificate No 8, Suspension of Contract (R 1,253,269.99) and Claim 3 - Delay (15 days) due to Late Payment of Payment Certificate No 10 and Suspension of Contract (R540,167.72) and Claim 4 - Delay (85 days) due to Late appointment of Electrical sub-contractor and approval of VO's (R1,209,890.00)	R 3,216,837.71	08 October 2018	11 Feb 2019
Total		R 6,007,286.48		

Claims Submitted

- Claim 1 – Extension of Time due to Late Payment of PC's – 02 May 2018
Additional Costs = R213,510.00 and 15 additional working days.
- Claim 2 – Extension of Time due to Suspension of the Works for non-payment of PC 8 – 31 Aug 2018
Additional Costs = R1,253,269.99 and 40 working days.
- Claim 3 - Extension of Time due to Suspension of the Works for non-payment of PC 10 – 05 Oct 2018
Additional Costs = R540,167.72 and 15 working days.
- Claim 4 – Extension of Time due to delays in Awarding E&I and Approval of VO's – 19 Oct 2018
Additional Costs = R1,564,561.62 and 85 working days.
- Claim 5 – Extension of Time due to delays for Electrical Sub-contractor progress due to outages and equipment delay. Additional Costs = R0.00 and 63 working days.
- Claim 6 – Extension of Time due to delays in outage approval due to late submission of existing pump test. Additional Costs = R0.00 and 6 working days.
- Claim 7 – Extension of Time due to Makana LM Arts Festival. Additional Costs = R50,000.00 and 15 working days. Pending claim
- Total Amount for Claims = R3,216,837.71 (Excl. VAT)

Community Liaison Officer (CLO)

Ms Vuyokazi Hermanus has been appointed on 04 October 2016 as the CLO for the project, and is from the local community.

Health and Safety

Trapro SHE Consulting (Masande Jubase) were appointed on 20 July 2017 as the Health and Safety Agents.

AW confirmed that the appointment with Trapro SHE Consulting is through AW.

Social Facilitator

Koloni Energy Solutions (George Meko) were appointed on the 04 July 2017 as the social facilitator.

Environmental Control Officer

Terratest (Cherize Mattheus) were appointed on 04 July 2017 as the ECO on the Contract.

Construction Monitoring

Gilgal (Vuyani Hoyi) were appointed on 04 July 2017 as the Construction Monitoring Consultants.

PSP's

AW has appointed a PSP for the removal of sludge at the James Kleynhans WTW under RFQ and does not form part of this Contract,

Refer to attached Employers Agents Representative Monthly Report for July 2019.

b) Phase 2 - Augmentation of the James Kleynhans WTW.

Procurement / Tender Documentation

Currently at procurement / tender approval stage – Awaiting AW approval

Estimated Construction Cost = R106.0m

Fees and Disbursements = R19.0m

Construction

Construction to Commence	To be advised
Construction Period	14 Months
Anticipated Completion date	TBA
Practical Completion Date	TBA
Completion Date	TBA
Final Approval Certificate	TBA

Outstanding Issues / Delays

Bosch Projects awaiting purchase order.

SMME's

SMME's to be appointed as per AW Supply Chain Policy.

CPA

CPA is applicable to this Contract

Variation Orders

NA

Claims

NA

Community Liason Officer (CLO)

A CLO to be appointed once construction commences.

Health and Safety

Health and Safety Agents is to be appointed on this Contract.

Social Facilitator

A Social Facilitator is to be appointed on this Contract.

Environmental Control Officer

An ECO is to be appointed on this Contract.

5. Planned Activities

Due to the nature of the project and budget allocation the project will be constructed in phases.

Phase 1

a) Augmentation of the James Kleynhans WTW – Phase 1 – At Construction Stage

- Clear water storage (2MI);
- Handling of Sludge and Backwash water;
- Sludge Ponds;
- Mechanical works;
- Electrical (Bulk and Internal);
- Instrumentation (SCADA & PLC);
- Telemetry;
- Interconnecting pipe work;
- Miscellaneous works

Purchase order issued	August 2017
Construction Commence	August 2017
Construction Complete	July 2018
Completion	17 September 2019

Phase 2

b) Augmentation of the James Kleynhans WTW – Phase 2 – At Procurement / Tender Award Stage

- Upgrading Chemical Building;
- Extension of flocculation channels;
- Sedimentation tank(10MI/d);
- Filters(10MI/d);
- Clear water storage (1.0MI);
- Electrical (Internal);
- Instrumentation (SCADA & PLC);
- Telemetry;
- Interconnecting pipe work;
- Miscellaneous works

Purchase order issued	Oct 2019
Construction Commence	Nov 2019
Construction Complete	Mar 2021

6. Job Creation

Phase 1 - Refer to table below – Construction Stage

Temporary job opportunities													
Temporary job opportunities for people employed at various occupational levels: Temporary = Less than 5 months	Adult Men		Adult Women		Youth Men		Youth Women		Disabled		TOTAL		Actual cost on job opportunit.
	No	Person Days	No	Person Days	No	Person Days	No	Person Days	No	Person Days	No	Person Days	
Clerical							1	428			1	428	R 113 349
Labourers	7	652		R 198 834	15	1 663	2	481			24	2 796	R 842 877
Managerial													
Semi-Skilled													
Skilled													
Supervisor													
TOTAL	7	652		R 198 834	15	1 663	3	909			25	3 224	R 956 226

Phase 2 - Refer to table below – Not at Construction Stage

Temporary job opportunities													
Temporary job opportunities for people employed at various occupational levels: Temporary = Less than 5 months	Adult Men		Adult Women		Youth Men		Youth Women		Disabled		TOTAL		Actual cost on job opportunit.
	No	Person Days	No	Person Days	No	Person Days	No	Person Days	No	Person Days	No	Person Days	
Clerical													
Labourers													
Managerial													
Semi-Skilled													
Skilled													
Supervisor													
TOTAL													

7. Project Budget and Expenditure to Date

The estimated budget and actual cost is based on the following:

- a) Estimated budget costs for all the Phases is the following;

DESCRIPTION	BUDGET COSTS	STAGE	COMMENCE	COMPLETE
Phase 1 - Augmentation of the JK-WTW (Wirwater)	R 6 427 958	Terminated		Jun-2017
Phase 1 - Augmentation of the JK-WTW (Mamlambo)	R 60 809 507	Construction	Aug-2017	Mar-2019
Phase 2 - Augmentation of the JK-WTW	R 102 695 783	Tender	May-2019	Dec-2021
Upgrading of the Existing WTW	R 31 500 000	Funding		
Upgrading of the Existing 350mm ø Pumping Main	R 31 500 000	Funding		
TOTAL	R 232 933 248.01			

- b) The Terminated Contractors invoices submitted to AW to date for Phase 1 are as follows;

No	Month	Estimated Expenditure (Incl. VAT)	Actual Expenditure (Incl. VAT)	Date Paid
1	Sep 2016	R 2,958,695.24	R0	
2	Oct 2016	R 3,969,576.46	R 2,782,681.29	22 Dec 2016
3	Nov 2016	R 6,209,644.24	R 3,339,183.45	20 Jan 2017
	Dec 2016		R0	
	to		R0	
	Jun 2017			
	Escal. / Cont.	R 2,121,351.46		
	Totals	R 35,643,334.86	R 6,121,864.74	

- c) The Mamlambo Construction invoices submitted to AW to date for Phase 1 are as follows;

No	Month	Estimated Expenditure (Excl. VAT)	Actual Expenditure (Excl. VAT)	Date Paid
1	Sep 2017	R 1,275,596.93	R 1 275 596.93	07-Nov-17
2	Oct 2017	R 748,895.70	R 748 895.70	08-Dec-17
3	Nov 2017	R 2,410,207.00	R 2 410 207.01	25-Jan-18
4	Dec 2017	R 500,435.76	R 500 435.76	25-Jan-18
5	Jan 2018	R 1,293,439.98	R 1,293,439.98	13-Apr-18
6	Feb 2018	R 1,163,557.65	R 1,163,557.65	16-Apr-18
7	Mar 2018	R 1,255,581.65	R 1,255,581.65	28-May-18
8	Apr 2018	R 1,667,067.00	R 1,667,067.00	21-Aug-18
9	May 2018	R 1,919,792.77	R 1 919 792.77	23-Jul-18
10	Jun 2018	R 2,829,523.71	R 2 829 523.71	12-Sept-18
11	Jul 2018	R 661,650.79	R 661 650.79	13-Sept-18
12	Aug 2018	R 977,197.68	R 977 197.68	05-Oct-18
13	Sept 2018	R 359,901.07	R 359,901.07	13-Nov-18
14	Oct 2018	R 7,504,347.83	R 2,854,687.32	15-Dec-18
15	Nov-18	R 3,710,006.96	R 2,676,616.26	24-Jan-19
16	Dec-18	R 3,417,391.31	R 796,336.68	15-Dec-18
17	Jan-19	R 1,547,826.09	R 1,120,117.78	08-Mar-19
18	Feb-19	R 1,547,826.09	R 1,286,274.87	29-Mar-19
19	Mar-19	R 982,608.70	R 351,306.60	17-May-19
20	Apr-19		R 3,623,201.65	28-Jun-19
21	May-19		R 2,739,716.01	Outstanding
22	Jun-19		R 383,130.20	Outstanding
23	Aug-19		R 1,212,154.57	Outstanding
24	Sept-19		R 904,655.85	Current
	Escal. / Cont.			
	Totals	R 40 186 233.77	R 35,011,045.49	

Awarded Value (incl. VAT) : R 41,252,306.58
 Total Expenditure (incl. VAT) : R 37,741,893.18
 Retention (incl. VAT) : R 1,809,311.69
 Total Cost Incl. Retention : R 39,551,204.87
 Remaining : R 1,701,101.71
 Value Completed : 99%
 Contract Period: 10 Months – Extended to 22 months
 % Time Complete: 100%
 Contract Period Remaining: 3 Months (E&I late delivery and increased outages) 28 June 2019
 Overall % Progress to Date: 100% Revised Contract end date
 Total days behind to Date: 0 months from revised completion date

d) The Actual Consultant invoices submitted to AW for Phase 1 to date are as follows:

Invoice	Amount	VAT	Total Amount	Date Invoiced	Date Paid
1	R 210,204	R 29,429	R 239,632	March-15	16-Oct-15
2	R 242,803	R 33,992	R 276,795	April-15	16-Oct-15
3	R 236,842	R 33,158	R 270,000	May-15	16-Oct-15
4	R 316,149	R 44,261	R 360,410	June-15	16-Oct-15
5	R 333,348	R 46,669	R 380,016	July-15	16-Oct-15
6	R 272,102	R 38,094	R 310,196	August-15	16-Oct-15
7	R 159,695	R 22,357	R 182,052	September-15	18-Feb-16
8	R 250,367	R 35,051	R 285,418	October-15	18-Feb-16
9	R 58,995	R 8,259	R 67,254	November-15	30-Mar-16
10	R 826,229	R 115,672	R 941,902	March-16	30-Mar-16
11	R 98,503	R 13,790	R 112,293	July-16	22-Dec-16
12	R 78,279	R 10,959	R 89,238	August-16	22-Dec-16
13	R 47,058	R 6,588	R 53,647	August-16	22-Dec-16
14	R 113,104	R 15,835	R 128,939	September-16	22-Dec-16
15	R 398,319	R 55,765	R 454,084	October-16	22-Dec-16
16	R 290,829	R 40,716	R 331,545	November-16	30-Mar-17
17	R 276,731	R 38,742	R 315,474	December-16	30-Mar-17
18	R 54,367	R 7,611	R 61,979	December-16	30-Mar-17
19	R 280,144	R 39,220	R 319,365	January-17	30-Mar-17
20	R 260,486	R 36,468	R 296,954	February-17	11-May-17
21	R 1,291,061	R 180,749	R 1,471,810	March-17	11-May-17
22	R 328,396	R 45,975	R 374,372	March-17	31-May-17
23	R 194,016	R 27,162	R 221,178	April-17	01-Jun-17
24	R 172,588	R 24,162	R 196,750	May-17	10-Aug-17
25	R 53,863	R 7,541	R 61,404	June-17	25-Aug-17
26	R 283,357	R 39,670	R 323,027	July-17	06-Oct-17
27	R 54,503	R 7,630	R 62,134	August-17	02-Nov-17
28	R 266,087	R 37,252	R 303,339	September-17	28-Oct-17
29	R 240,169	R 33,624	R 273,793	October-17	11-Dec-17
30	R 274,622	R 38,447	R 313,069	November-17	25-Jan-18
31	R 273,530	R 38,294	R 311,824	December-17	25-Jan-18
32	R 250,695	R 35,097	R 285,792	January-18	11-May-18
33	R 262,053	R 36,687	R 298,741	February-18	13-Apr-18
34	R 251,447	R 35,203	R 286,649	March-18	31-Aug-18
35	R 259,821	R 38,973	R 298,794	April-18	31-Aug-18
36	R 290,156	R 43,523	R 333,679	May-18	13-Sep-18
37	R 281,772	R 42,266	R 324,038	June-18	13-Sep-18
38	R 234,245	R 35,137	R 269,381	July-18	31-Aug-18
39	R 175,697	R 26,355	R 202,051	August-18	21-Sep-18
40	R 215,791	R 32,369	R 248,160	September-18	13-Nov-18
41	R 255,685	R 38,353	R 294,038	October-18	15-Jan-19
42	R 393,427	R 59,014	R 452,441	November-18	15-Jan-19
43	R 133,512	R 20,027	R 153,538	December-18	15-Mar-19
44	R 138,553	R 20,783	R 159,337	January-19	08-Mar-19
45	R 303,899	R 45,585	R 349,484	February-19	29-Mar-19
46	R 988,275	R 148,241	R 1,136,516	March-19	16-May-19
47	R 261,993	R 39,299	R 301,292	April-19	28-Jun-19
48	R 174,198	R 26,130	R 200,328	May-19	28-Jun-19
49	R 189,478	R 28,422	R 217,900	June-19	Outstanding
50	R 173,811	R 26,072	R 199,882	July-19	Outstanding
51	R 148,856	R 22,328	R 171,185	September-19	Current
TOTAL	R 13,620,109.58	R 1,953,007.02	R 15,573,116.60		

e) The Actual Consultant invoices submitted to AW for Phase 2 to date are as follows:

