

Item	Description	Unit	Year 1			Year 2			Year 3	
			Quantity	Rate	Amount R	Quantity	Rate	Amount R	Quantity	Rate
4.1.3	IMPLEMENTATION PLAN (WHICH INCLUDES SYSTEM, DATABASE AND NWDPWR REQUIREMENTS AND OPERATIONS STATUS QUO)	Lump Sum	1			1			1	
4.1.4	CORE ROAD ASSET MANAGEMENT SYSTEM									
	Task List:									
a)	Maintain server and related software	Hour	149.6			149.6			149.6	
b)	Monitor and test backups and DRS (disaster recovery system)	Hour	179.52			179.52			179.52	
c)	Update and maintenance of web portal	Hour	75			75			75	
d)	Update documentation of the procedures for operation of the RAMS database	Hour	75			75			75	
e)	Import all relevant processed data from the TIS into RAMS	Hour	75			75			75	
f)	Import all relevant processed data from the Paved Visual Assessments into RAMS	km	5657			Rate Only			5657	
g)	Import all relevant processed data from the Gravel Visual Assessments into RAMS	km	14128			Rate Only			14128	
h)	Import all relevant processed data from the BMS Assessments into RAMS (Struman)	Number	525			341			330	
i)	Import all relevant processed data from the BPMMS Assessments into RAMS	Number	200			200			200	
j)	Import all relevant processed data from the RSMS Assessments into RAMS	Number	20000			Rate Only			20000	
k)	Import all relevant processed data from the FAR into RAMS	Hour	2112			2112			2112	
l)	Import all relevant processed data from the GIS into RAMS	Hour	75			75			75	
m)	Import all relevant processed data from the RNI into RAMS	Hour	75			75			75	
n)	Uploading of Projects documents to the Documents Library	Number	130			130			130	
o)	Input into Road Asset Management Plan (RAMP) Reports	Lump Sum	2			2			2	
o)	Skills transfer (Systems) to the Departmental staff	Hour	24			24			24	
4.1.5	ROAD NETWORK INVENTORY									
	Task List:									
a)	Update and maintained the RNI to ensure accurate representation of the Network	Hour	187			187			187	
b)	Professional support services to RRAMS	Hour	432			432			432	
c)	Evaluate District Rural Road Asset Management System (RRAMS) data for TMH18 Compliance and incorporate the RRAMS data into ZA-NWRAMS	Hour	2160			2160			2160	
d)	Update the road classification according to RCAM classification	Hour	75			75			75	
e)	Update the road network based on changes to road alignment and proclamation of new roads to/from the road network	Prov. Sum	1			1			1	
f)	Include new road proclamations into the road network	Prov. Sum	1			1			1	
g)	Develop Road network Inventory Abbreviated Framework	Lump Sum	1			1			1	
h)	Extract and Input Data into Departmental RAMP Reports	Lump Sum	2			2			2	
i)	Skills transfer (RNI) to the Departmental staff	Hour	24			24				
4.1.6	GEOGRAPHIC INFORMATION SYSTEM									
	Task List:									
a)	Maintenance of GIS system (PostGIS database, Geoserver stores and styles, ArcGIS .mxd projects, QGIS .qgs projects)	Hour	180			180			180	
b)	Continuous updating and improvement to data, procedures and reports	Hour	225			225			225	
c)	Compile and Supply maps for various purposes, including road assessments/surveys, Head Office and Regions of the Department	Hour	60			60			60	
d)	GIS support functions across all workstreams	Prov. Sum	1			1			1	
e)	Integrate data from all workstreams into the GIS System	Hour	75			75			75	
f)	Linking spatial data to the asset representation in the FAR for correct valuation	Hour	75			75			75	

Item	Description	Unit	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate
					R			R		
g)	Provide spatial information for DACs	Hour	75			75			75	
j)	Extract and Input Data into Departmental RAMP Reports	Lump Sum	2			2			2	
k)	Skills transfer and Training (QGIS & Related Apps) to the Departmental staff	Hour	24			24			24	
4.1.7	PAVEMENT & GRAVEL ROAD MANAGEMENT SYSTEMS (PMS and GRMS)									
	Task List:									
a)	Updated the PRMS as part of the ZA-NWRAMS based on visual assessments data	km	5657			Rate Only			5657	
b)	Updated the GRMS as part of the ZA-NWRAMS based on visual assessments data	km	14128			Rate Only			14128	
c)	Update documentation of the procedures for operation of the PMS and GRMS	Lump Sum	1			Rate Only			1	
d)	Update the PMS and GRMS based on changes to road alignment and proclamation of new roads	Prov. Sum	1			Rate Only			1	
e)	Extract and Input Data into Departmental RAMP Reports	Lump Sum	2			Rate Only			2	
f)	Skills transfer and Training (PMS and GRMS outputs) to the Departmental staff	Hour	24			Rate Only			24	
4.1.8	VISUAL ASSESSMENTS - PAVED ROADS									
	Task List:									
a)	Conduct Calibration Workshop for the assessments with DACs and the Department / Regions	No	8			Rate Only			8	
b)	Prepare data sets for segmentation	Hour	10			Rate Only			10	
c)	Issue the DACs with relevant Fixed Road Network	Lump Sum	1			Rate Only			1	
d)	Test, calibrate and evaluate tenderers' staff and recommend staff to be used to the Department	Hour	12			Rate Only			12	
e)	Prepare datasets with segmentation data for import into data collection tool	Lump Sum	1			Rate Only			1	
f)	Plot road maps for all contractors. Print road network identification books (Provide road network/maps incl. for reporting)	Number	10			Rate Only			10	
g)	Arrange and manage quality control assessments	Hour	110			Rate Only			110	
h)	Evaluate all submitted visual assessment data in a brief report covering the evaluation findings	Hour	130			Rate Only			130	
j)	Management fee for Contract administration. (Manage DAC/s)	Lump Sum	1			Rate Only			1	
k)	Data quality and integrity checks 10% the assessed network	km	565.7			Rate Only			565.7	
l)	Evaluate data received and Upload into GIS and ZA-NWRAMS.	km	5657			Rate Only			5657	
m)	Conduct progress meetings with DACs	number	12			Rate Only			12	
n)	Compile Consolidated Visual Condition Assessments Technical Report Quarterly	Number	4			Rate Only			4	
o)	Extract and Input Data into Departmental RAMP Reports	Lump Sum	2			Rate Only			2	
p)	Skills transfer (Calibration) to the Departmental staff	Hour	24			Rate Only			24	
4.1.9	VISUAL ASSESSMENTS - GRAVEL ROADS									
	Task List:									
a)	Conduct Calibration Workshop for the assessments with DACs and the Department / Regions	No	8			Rate Only			8	
b)	Prepare data sets for segmentation	Hour	10			Rate Only			10	
c)	Issue the DACs with relevant Fixed Road Network	Lump Sum	1			Rate Only			1	
d)	Test, calibrate and evaluate tenderers' staff and recommend staff to be used to the Department	Hour	12			Rate Only			12	
e)	Prepare datasets with segmentation data for import into data collection tool	Lump Sum	1			Rate Only			35	
f)	Plot road maps for all contractors. Print road network identification books (Provide road network/maps incl. for reporting)	Number	10			Rate Only			10	

Item	Description	Unit	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate
					R			R		
g)	Arrange and manage quality control assessments	Hour	110			Rate Only			110	
h)	Evaluate all submitted visual assessment data in a brief report covering the evaluation findings	Hour	130			Rate Only			1	
j)	Management fee for Contract administration. (Manage DAC/s)	Lump Sum	1			Rate Only			1	
k)	Data quality and integrity checks 10% the assessed network	km	1412.8			Rate Only			1412.8	
l)	Evaluate data received and Upload into GIS and ZA-RAMS.	km	14128			Rate Only			14128	
m)	Conduct progress meetings with DACs	number	Rate Only			Rate Only			Rate Only	
n)	Compile Consolidated Visual Condition Assessments Technical Report Quaterly	Number	Rate Only			Rate Only			Rate Only	
o)	Extract and Input Data into Departmental RAMP Reports	Lump Sum	2			Rate Only			2	
p)	Skills transfer (Calibration) to the Departmental staff	Hour	24			Rate Only			24	
4.1.10	PROFILE MEASUREMENTS & FALLING WEIGHT DETECTION (FWD)									
	Task List:									
a)	Refine use of VOC models and the development of a Hybrid LCCA model	Hour	75			Rate Only			75	
b)	Evaluate data received and Upload into GIS and ZA-NWRAMS	km	5657			Rate Only			5657	
c)	Compile Road Surveillance Measurements Technical Report	Number	1			Rate Only			1	
d)	Extract and Input Data into Departmental RAMP Reports	Lump Sum	2			Rate Only			2	
e)	Print road network identification books, containing road network identification, per district, for all the survey contractors to report back on RNI problems.	Number	1			Rate Only			1	
f)	Management fee for Contract administration. (Mannage DAC/s)	Lump Sum	1			Rate Only			1	
g)	Skills transfer (Calibration) to the Departmental staff	Hour	24			Rate Only			24	
4.1.11	PANEL INSPECTIONS									
	Task List:									
a)	Plan and prepare data for panel inspections and Conduct planning session	Hour	20			20			20	
b)	Assist Department with the B5 priority List and Reporting	Hour	35			35			35	
c)	Provide Training for Panel Inspections to compile B5 list	Hour	10			10			10	
d)	Panel Inspections Training Report including Feedback Report	Number	1			1			1	
e)	Arrange and execute PI workshop for Departmental staff	Hour	10			10			10	
f)	Disbursements for Panel inspection (Vehicle rental, etc.) Provide for departmental Staff Training)	Prov. Sum	1			1			1	
g)	Provision for independent expert	Prov. Sum	1			1			1	
h)	Input Data into Departmental RAMP Reports	Lump Sum	2			2			2	
i)	Skills transfer (Calibration) to the Departmental staff	Hour	24			24			24	
4.1.12	TRAFFIC INFORMATION SYSTEM (TIS)									
	Task List:									
a)	Provision of a TIS per specifications	Lump Sum	1			1			1	
b)	Update manuals for traffic counting strategy, guide for manual counting, guide for automatic counting and guide for permanent counting	Hour	50			50			50	
d)	Print road network identification books	Number	5			5			5	
e)	Management fee for Contract administration	Lump Sum	1			1			1	
f)	Conduct progress meetings with DACs	number	12			12			12	
g)	Analysis of traffic data to determine traffic growth rates, trend analysis 33%	km	6529.05			6529.05			6529.05	
h)	Upload final data sets into GIS and ZA-NWRAMS	Hour	34			34			34	
i)	Compile Consolidated Traffic Counts Technical Report	Number	1			1			1	
j)	Conduct 10% quality control assessments of submitted counts	km	652.905			652.905			652.905	

Item	Description	Unit	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate
					R			R		
k)	Extract and Input Data into Departmental RAMP Reports	Lump Sum	1			1			1	
l)	Skills transfer to the Departmental staff	Hour	24			24			24	
4.1.13	LIFE CYCLE COST ANALYSES AND PLANNING AND ANALYSIS AND PLANNING & CAPITAL PERIODIC AND PREVENTATIVE MAINTENANCE MANAGEMENT SYSTEM									
	Task List:									
a)	Cost analysis of Maintenance and Rehabilitation costs from tenders	Hour	204			204			204	
b)	Input into the development of required budgets	Hour	80			80			80	
c)	Develop and Expand Hybrid LCCA Methodology and process for use in budgetary requirements for maintenance	Hour	204			204			204	
d)	Import analysis outputs into the RAMS (e.g. M&R lists)	Hour	10			10			10	
e)	Input Data into Departmental RAMP Reports	Lump Sum	2			2			2	
f)	Skills transfer for Department staff	Hour	24			24			24	
4.1.14	BRIDGE MANAGEMENT SYSTEM (BMS)									
	Task List:									
a)	Conduct training and calibration of bridge inspectors	Hour	55			55			55	
b)	Refine regular inspection procedures	Hour	20			20			20	
c)	Annual calibration sessions for structures inspections	Hour	9			9			9	
d)	Capture bridge inspection data in the BMS (Struman), process inspection data, do required analyses and planning, and prepare bridge strategic analyses report	Number	525			341			330	
e)	Independent quality control inspections on 5% of the assessed structures	Number	69			69			69	
f)	Input Data into Departmental RAMP Reports	Lump Sum	2			2			2	
g)	Skills transfer for Department staff	Hour	24			24			24	
4.1.15	FIXED ROAD ASSET MANAGEMENT SYSTEM									
	Task List:									
a)	Annual reviews of the Fixed Asset Management Policy	Hour	30						30	
b)	Conduct an AM Maturity Assessment	Hour	120						120	
c)	Annual verification of assets for the incorporation into the FAR	Hour	240						240	
d)	Annual report on the status of the FAR	Lump Sum	1						1	
e)	Annual updating of the FAR with active/ completed projects	No	200			200			200	
f)	Field Verification tasks for completed projects, prior to capitalisation	No	200						200	
g)	FAR Progress Meetings	Number	12						12	
h)	Prepare WIP Schedule	Hour	12						12	
i)	FAR Update per Field Data and GIS	Lump Sum	1						1	
j)	FAR Update with new Bridges Data	No	525			341			330	
k)	FAR Update with new Signage Data	No	20000						20000	
f)	Current Replacement Cost (CRC) and Depreciated Replacement Cost (DRC) calculations and impairment flagging allow for residual value calculation in Formation Assets	Hour	40						40	
g)	Annual FAR submissions	Hour	9						9	
h)	Input Data into Departmental RAMP Reports	Lump Sum	2						2	
i)	Skills transfer for Department staff	Hour	24						24	
4.1.16	ROAD SIGNS MANAGEMENT SYSTEM									
	Task List:									
a)	Import the Data collected during Visual Assessments into RSMS	number	20000			Rate Only			20000	

Item	Description	Unit	Quantity	Rate	Amount R	Quantity	Rate	Amount R	Quantity	Rate
b)	Independent quality control inspections on 10% of the assessed Road Signs data	Number	2000			Rate Only			2000	
c)	Input Data into Departmental RAMP Reports	Lump Sum	2			Rate Only			2	
d)	Skills transfer for Department staff	Hour	24			Rate Only			24	
4.1.17	BORROW PIT MATERIAL MANAGEMENT SYSTEM									
	Task List:									
a)	Identification of current/ potential BPs in the Province through District office and current projects Professional Services Providers	Number	200			200			200	
b)	Transfere Projects BP's information in to the GIS (Current and old Projects)	Number	200			200			200	
c)	Physical verification of existing/potential BPs	Number	200			200			200	
d)	Compiled Technical Report on the Inclusion of BPs in the FAR and ZA-NWRAMS	Lump Sum	1			1			1	
e)	Input Data into Departmental RAMP Reports	Lump Sum	2			2			2	
f)	Skills transfer for Department staff	Hour	24			24			24	
4.1.18	INTEGRATION WITH VARIOUS SUB-SYSTEMS									
	Task List:									
a)	Road Network Inventory;	Lump Sum	1			1			1	
b)	Geographic Information System;	Lump Sum	1			1			1	
c)	Traffic Information System; (also known as TCS)	Lump Sum	1			1			1	
d)	Pavement Management System;	Lump Sum	1			Rate Only			1	
e)	Gravel Road Management System;	Lump Sum	1			Rate Only			1	
f)	Bridge Management System;	Lump Sum	1			Rate Only			1	
g)	Road Fixed Asset Register (FAR);	Lump Sum	1			1			1	
h)	Road Signs Management System.	Lump Sum	1			Rate Only			1	
i)	Construction, Periodic and Preventative Maintenance Management System;	Lump Sum	1			1			1	
j)	Borrow Pits and Materials Management System;	Lump Sum	1			1			1	
4.1.19	MANAGEMENT AND SUPPORT FUNCTIONS									
	Task List:									
a)	Assist Department with the Compilation and Submission of Bridge Repair Term Contracts	Hour	75							
c)	Assist Department with the Compilation and Submission of Public Transport Routes Report	number	1			1			1	
d)	Assist Department with the Compilation and Submission of Access to Public Facilities Report.(ARDP)	number	1			1			1	
e)	Assist Department with GIAMA Reporting.(RAMP Report)	number	2			2			2	
f)	Prepare and submit half yearly reports for the entire RAMS	number	2			2			2	
g)	Monthly progress meetings with the Department	number	12			12			12	
	Review of the road asset management policy		1							
4.1.20	LICENCING									
	Task List:									
a)	Struman - BMS	Lump Sum	1			1			1	
b)	ZA-NWRAMS (Including Supporting Softwares Licencing)	Lump Sum	1			1			1	
c)	Acrobat Reader	Lump Sum	1			1			1	
d)	Other Licencing (Department to Specify)	PC Sum	1			1			1	
4.1.21	PROVISIONAL SUMS									
a)	Provincial Road Master Plan	PC Sum	1			1			1	

Item	Description	Unit	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate
					R			R		
b)	Management Fee for Road Safety Audit service provider	PC Sum	1			1			1	
c)	Management Fee for Storm Water Management System	PC Sum	1			1			1	
4.1.21	DISBURSEMENTS									
a)	Travel - road, Air, Toll Fees, Parking Fees, Accommodation, Vanur Hire, Meals Refreshments,Supplies Hardware , etc)	Lump Sum	1			1			1	
b)	Other Disbursements: Provision of field data capturing and related hardware	Lump Sum	1			1			1	
c)	Other Disbursements : Overnight Accommodation (Accommodation, vanue hire,etc)	Lump Sum	1			1			1	
h)	Other Disbursements: Provision of field data capturing and related hardware (DPWR)	Lump Sum	1			1			1	
i)	Provision of DPWR Smart meeting boardroom Equipment (information Technology) and setting up of wireless internet services as per specification	PC Sum	1			1			1	
j)	Service,repair and of existing Scanner and Plotter DPWR	PC Sum	1			1			1	
	Printing - colour									
a)	A4	No.	1400			1400			1400	
b)	A3	No.	1000			1000			1000	
	Plotting									
a)	A2	No.	100			100			100	
b)	A1	No.	100			100			100	
c)	A0	No.	200			200			200	
	Laminated									
a)	A2	No.	100			100			100	
b)	A1	No.	100			100			100	
c)	A0	No.	200			200			200	
	Copying - monochrome									
a)	A4	No.	1400			1400			1400	
b)	A3	No.	1000			1000			1000	
c)	A2	No.	100			100			100	
d)	A1	No.	100			100			100	
e)	A0	No.	200			200			200	
	Copying - colour									
a)	A4	No.	1400			1400			1400	
b)	A3	No.	1000			1000			1000	
c)	A2	No.	100			100			100	
d)	A1	No.	100			100			100	
e)	A0	No.	200			200			200	
	Staff Hourly Rates									
a)	Category A	Rate	Rate only			Rate only			Rate only	
b)	Category B	Rate	Rate only			Rate only			Rate only	
c)	Category C	Rate	Rate only			Rate only			Rate only	
YEAR 1 : TOTAL					R	-		YEAR 2 : TOTAL	R	-
										YEAR 3 : TOTAL

Item	Description	Unit	Amount R	Year 4			Year 5		
				Quantity	Rate	Amount R	Quantity	Rate	Amount R
4.1.3	IMPLEMENTATION PLAN (WHICH INCLUDES SYSTEM, DATABASE AND NWDPWR REQUIREMENTS AND OPERATIONS STATUS QUO)	Lump Sum		1			1		
4.1.4	CORE ROAD ASSET MANAGEMENT SYSTEM								
	Task List:								
a)	Maintain server and related software	Hour		149.6			149.6		
b)	Monitor and test backups and DRS (disaster recovery system)	Hour		179.52			179.52		
c)	Update and maintenance of web portal	Hour		75			75		
d)	Update documentation of the procedures for operation of the RAMS database	Hour		75			75		
e)	Import all relevant processed data from the TIS into RAMS	Hour		75			75		
f)	Import all relevant processed data from the Paved Visual Assessments into RAMS	km		Rate Only			5657		
g)	Import all relevant processed data from the Gravel Visual Assessments into RAMS	km		Rate Only			14128		
h)	Import all relevant processed data from the BMS Assessments into RAMS (Struman)	Number		175			100		
i)	Import all relevant processed data from the BPMMS Assessments into RAMS	Number		200			200		
j)	Import all relevant processed data from the RSMS Assessments into RAMS	Number		Rate Only			20000		
k)	Import all relevant processed data from the FAR into RAMS	Hour		2112			2112		
l)	Import all relevant processed data from the GIS into RAMS	Hour		75			75		
m)	Import all relevant processed data from the RNI into RAMS	Hour		75			75		
n)	Uploading of Projects documents to the Documents Library	Number		130			130		
o)	Input into Road Asset Management Plan (RAMP) Reports	Lump Sum		2			2		
o)	Skills transfer (Systems) to the Departmental staff	Hour		24			24		
4.1.5	ROAD NETWORK INVENTORY								
	Task List:								
a)	Update and maintained the RNI to ensure accurate representation of the Network	Hour		187			187		
b)	Professional support services to RRAMS	Hour		432			432		
c)	Evaluate District Rural Road Asset Management System (RRAMS) data for TMH18 Compliance and incorporate the RRAMS data into ZA-NWRAMS	Hour		2160			2160		
d)	Update the road classification according to RCAM classification	Hour		75			75		
e)	Update the road network based on changes to road alignment and proclamation of new roads to/from the road network	Prov. Sum		1			1		
f)	Include new road proclamations into the road network	Prov. Sum		1			1		
g)	Develop Road network Inventory Abbreviated Framework	Lump Sum		1			1		
h)	Extract and Input Data into Departmental RAMP Reports	Lump Sum		2			2		
i)	Skills transfer (RNI) to the Departmental staff	Hour							
4.1.6	GEOGRAPHIC INFORMATION SYSTEM								
	Task List:								
a)	Maintenance of GIS system (PostGIS database, Geoserver stores and styles, ArcGIS .mxd projects, QGIS .qgs projects)	Hour		180			180		
b)	Continuous updating and improvement to data, procedures and reports	Hour		225			225		
c)	Compile and Supply maps for various purposes, including road assessments/surveys, Head Office and Regions of the Department	Hour		60			60		
d)	GIS support functions across all workstreams	Prov. Sum		1			1		
e)	Integrate data from all workstreams into the GIS System	Hour		75			75		
f)	Linking spatial data to the asset representation in the FAR for correct valuation	Hour		75			75		

Item	Description	Unit	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount
			R			R			R
g)	Provide spatial information for DACs	Hour		75			75		
j)	Extract and Input Data into Departmental RAMP Reports	Lump Sum		2			2		
k)	Skills transfer and Training (QGIS & Related Apps) to the Departmental staff	Hour		24			24		
4.1.7	PAVEMENT & GRAVEL ROAD MANAGEMENT SYSTEMS (PMS and GRMS)								
	Task List:								
a)	Updated the PRMS as part of the ZA-NWRAMS based on visual assessments data	km		Rate Only			5657		
b)	Updated the GRMS as part of the ZA-NWRAMS based on visual assessments data	km		Rate Only			14128		
c)	Update documentation of the procedures for operation of the PMS and GRMS	Lump Sum		Rate Only			1		
d)	Update the PMS and GRMS based on changes to road alignment and proclamation of new roads	Prov. Sum		Rate Only			1		
e)	Extract and Input Data into Departmental RAMP Reports	Lump Sum		Rate Only			2		
f)	Skills transfer and Training (PMS and GRMS outputs) to the Departmental staff	Hour		Rate Only			24		
4.1.8	VISUAL ASSESSMENTS - PAVED ROADS								
	Task List:								
a)	Conduct Calibration Workshop for the assessments with DACs and the Department / Regions	No		Rate Only			8		
b)	Prepare data sets for segmentation	Hour		Rate Only			10		
c)	Issue the DACs with relevant Fixed Road Network	Lump Sum		Rate Only			1		
d)	Test, calibrate and evaluate tenderers' staff and recommend staff to be used to the Department	Hour		Rate Only			12		
e)	Prepare datasets with segmentation data for import into data collection tool	Lump Sum		Rate Only			1		
f)	Plot road maps for all contractors. Print road network identification books (Provide road network/maps incl. for reporting)	Number		Rate Only			10		
g)	Arrange and manage quality control assessments	Hour		Rate Only			110		
h)	Evaluate all submitted visual assessment data in a brief report covering the evaluation findings	Hour		Rate Only			130		
j)	Management fee for Contract administration. (Manage DAC/s)	Lump Sum		Rate Only			1		
k)	Data quality and integrity checks 10% the assessed network	km		Rate Only			565.7		
l)	Evaluate data received and Upload into GIS and ZA-NWRAMS.	km		Rate Only			5657		
m)	Conduct progress meetings with DACs	number		Rate Only			12		
n)	Compile Consolidated Visual Condition Assessments Technical Report Quarterly	Number		Rate Only			4		
o)	Extract and Input Data into Departmental RAMP Reports	Lump Sum		Rate Only			2		
p)	Skills transfer (Calibration) to the Departmental staff	Hour		Rate Only			24		
4.1.9	VISUAL ASSESSMENTS - GRAVEL ROADS								
	Task List:								
a)	Conduct Calibration Workshop for the assessments with DACs and the Department / Regions	No		Rate Only			8		
b)	Prepare data sets for segmentation	Hour		Rate Only			10		
c)	Issue the DACs with relevant Fixed Road Network	Lump Sum		Rate Only			1		
d)	Test, calibrate and evaluate tenderers' staff and recommend staff to be used to the Department	Hour		Rate Only			12		
e)	Prepare datasets with segmentation data for import into data collection tool	Lump Sum		Rate Only			35		
f)	Plot road maps for all contractors. Print road network identification books (Provide road network/maps incl. for reporting)	Number		Rate Only			10		

Item	Description	Unit	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount
			R			R			R
g)	Arrange and manage quality control assessments	Hour		Rate Only			110		
h)	Evaluate all submitted visual assessment data in a brief report covering the evaluation findings	Hour		Rate Only			1		
j)	Management fee for Contract administration. (Manage DAC/s)	Lump Sum		Rate Only			1		
k)	Data quality and integrity checks 10% the assessed network	km		Rate Only			1412.8		
l)	Evaluate data received and Upload into GIS and ZA-RAMS.	km		Rate Only			14128		
m)	Conduct progress meetings with DACs	number		Rate Only			Rate Only		
n)	Compile Consolidated Visual Condition Assessments Technical Report Quaterly	Number		Rate Only			Rate Only		
o)	Extract and Input Data into Departmental RAMP Reports	Lump Sum		Rate Only			2		
p)	Skills transfer (Calibration) to the Departmental staff	Hour		Rate Only			24		
4.1.10	PROFILE MEASUREMENTS & FALLING WEIGHT DETECTION (FWD)								
	Task List:								
a)	Refine use of VOC models and the development of a Hybrid LCCA model	Hour		Rate Only			75		
b)	Evaluate data received and Upload into GIS and ZA-NWRAMS	km		Rate Only			5657		
c)	Compile Road Surveillance Measurements Technical Report	Number		Rate Only			1		
d)	Extract and Input Data into Departmental RAMP Reports	Lump Sum		Rate Only			2		
e)	Print road network identification books, containing road network identification, per district, for all the survey contractors to report back on RNI problems.	Number		Rate Only			1		
f)	Management fee for Contract administration. (Mannage DAC/s)	Lump Sum		Rate Only			1		
g)	Skills transfer (Calibration) to the Departmental staff	Hour		Rate Only			24		
4.1.11	PANEL INSPECTIONS								
	Task List:								
a)	Plan and prepare data for panel inspections and Conduct planning session	Hour		20			20		
b)	Assist Department with the B5 priority List and Reporting	Hour		35			35		
c)	Provide Training for Panel Inspections to compile B5 list	Hour		10			10		
d)	Panel Inspections Training Report including Feedback Report	Number		1			1		
e)	Arrange and execute PI workshop for Departmental staff	Hour		10			10		
f)	Disbursements for Panel inspection (Vehicle rental, etc.) Provide for departmental Staff Training)	Prov. Sum		1			1		
g)	Provision for independent expert	Prov. Sum		1			1		
h)	Input Data into Departmental RAMP Reports	Lump Sum		2			2		
i)	Skills transfer (Calibration) to the Departmental staff	Hour		24			24		
4.1.12	TRAFFIC INFORMATION SYSTEM (TIS)								
	Task List:								
a)	Provision of a TIS per specifications	Lump Sum		1			1		
b)	Update manuals for traffic counting strategy, guide for manual counting, guide for automatic counting and guide for permanent counting	Hour		50			50		
d)	Print road network identification books	Number		5			5		
e)	Management fee for Contract administration	Lump Sum		1			1		
f)	Conduct progress meetings with DACs	number		12			12		
g)	Analysis of traffic data to determine traffic growth rates, trend analysis 33%	km		6529.05			6529.05		
h)	Upload final data sets into GIS and ZA-NWRAMS	Hour		34			34		
i)	Compile Consolidated Traffic Counts Technical Report	Number		1			1		
j)	Conduct 10% quality control assessments of submitted counts	km		652.905			652.905		

Item	Description	Unit	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount
			R			R			R
k)	Extract and Input Data into Departmental RAMP Reports	Lump Sum		1			1		
l)	Skills transfer to the Departmental staff	Hour		24			24		
4.1.13	LIFE CYCLE COST ANALYSES AND PLANNING AND ANALYSIS AND PLANNING & CAPITAL PERIODIC AND PREVENTATIVE MAINTENANCE MANAGEMENT SYSTEM								
	Task List:								
a)	Cost analysis of Maintenance and Rehabilitation costs from tenders	Hour		204			204		
b)	Input into the development of required budgets	Hour		80			80		
c)	Develop and Expand Hybrid LCCA Methodology and process for use in budgetary requirements for maintenance	Hour		204			204		
d)	Import analysis outputs into the RAMS (e.g. M&R lists)	Hour		10			10		
e)	Input Data into Departmental RAMP Reports	Lump Sum		2			2		
f)	Skills transfer for Department staff	Hour		24			24		
4.1.14	BRIDGE MANAGEMENT SYSTEM (BMS)								
	Task List:								
a)	Conduct training and calibration of bridge inspectors	Hour		55			55		
b)	Refine regular inspection procedures	Hour		20			20		
c)	Annual calibration sessions for structures inspections	Hour		9			9		
d)	Capture bridge inspection data in the BMS (Struman), process inspection data, do required analyses and planning, and prepare bridge strategic analyses report	Number		175			100		
e)	Independent quality control inspections on 5% of the assessed structures	Number		69			69		
f)	Input Data into Departmental RAMP Reports	Lump Sum		2			2		
g)	Skills transfer for Department staff	Hour		24			24		
4.1.15	FIXED ROAD ASSET MANAGEMENT SYSTEM								
	Task List:								
a)	Annual reviews of the Fixed Asset Management Policy	Hour					30		
b)	Conduct an AM Maturity Assessment	Hour					120		
c)	Annual verification of assets for the incorporation into the FAR	Hour					240		
d)	Annual report on the status of the FAR	Lump Sum					1		
e)	Annual updating of the FAR with active/ completed projects	No		200			200		
f)	Field Verification tasks for completed projects, prior to capitalisation	No					200		
g)	FAR Progress Meetings	Number					12		
h)	Prepare WIP Schedule	Hour					12		
i)	FAR Update per Field Data and GIS	Lump Sum					1		
j)	FAR Update with new Bridges Data	No		175			100		
k)	FAR Update with new Signage Data	No					20000		
f)	Current Replacement Cost (CRC) and Depreciated Replacement Cost (DRC) calculations and impairment flagging allow for residual value calculation in Formation Assets	Hour					40		
g)	Annual FAR submissions	Hour					9		
h)	Input Data into Departmental RAMP Reports	Lump Sum					2		
i)	Skills transfer for Department staff	Hour					24		
4.1.16	ROAD SIGNS MANAGEMENT SYSTEM								
	Task List:								
a)	Import the Data collected during Visual Assessments into RSMS	number		Rate Only			20000		

Item	Description	Unit	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount
			R			R			R
b)	Independent quality control inspections on 10% of the assessed Road Signs data	Number		Rate Only			2000		
c)	Input Data into Departmental RAMP Reports	Lump Sum		Rate Only			2		
d)	Skills transfer for Department staff	Hour		Rate Only			24		
4.1.17	BORROW PIT MATERIAL MANAGEMENT SYSTEM								
	Task List:								
a)	Identification of current/ potential BPs in the Province through District office and current projects Proffesional Services Providers	Number		200			200		
b)	Transfere Projects BP's information in to the GIS (Current and old Projects)	Number		200			200		
c)	Physical verification of existing/potential BPs	Number		200			200		
d)	Compiled Technical Report on the Inclusion of BPs in the FAR and ZA-NWRAMS	Lump Sum		1			1		
e)	Input Data into Departmental RAMP Reports	Lump Sum		2			2		
f)	Skills transfer for Department staff	Hour		24			24		
4.1.18	INTEGRATION WITH VARIOUS SUB-SYSTEMS								
	Task List:								
a)	Road Network Inventory;	Lump Sum		1			1		
b)	Geographic Information System;	Lump Sum		1			1		
c)	Traffic Information System; (also known as TCS)	Lump Sum		1			1		
d)	Pavement Management System;	Lump Sum		Rate Only			1		
e)	Gravel Road Management System;	Lump Sum		Rate Only			1		
f)	Bridge Management System;	Lump Sum		Rate Only			1		
g)	Road Fixed Asset Register (FAR);	Lump Sum		1			1		
h)	Road Signs Management System.	Lump Sum		Rate Only			1		
i)	Construction, Periodic and Preventative Maintenance Management System;	Lump Sum		1			1		
j)	Borrow Pits and Materials Management System;	Lump Sum		1			1		
4.1.19	MANAGEMENT AND SUPPORT FUNCTIONS								
	Task List:								
a)	Assist Department with the Compilation and Submission of Bridge Repair Term Contracts	Hour							
c)	Assist Department with the Compilation and Submission of Public Transport Routes Report	number		1			1		
d)	Assist Department with the Compilation and Submission of Access to Public Facilities Report.(ARDP)	number		1			1		
e)	Assist Department with GIAMA Reporting.(RAMP Report)	number		2			2		
f)	Prepare and submit half yearly reports for the entire RAMS	number		2			2		
g)	Monthly progress meetings with the Department	number		12			12		
	Review of the road asset management policy								
4.1.20	LICENCING								
	Task List:								
a)	Struman - BMS	Lump Sum		1			1		
b)	ZA-NWRAMS (Including Supporting Softwares Licencing)	Lump Sum		1			1		
c)	Acrobat Reader	Lump Sum		1			1		
d)	Other Licencing (Department to Specify)	PC Sum		1			1		
4.1.21	PROVISIONAL SUMS								
a)	Provincial Road Master Plan	PC Sum		1			1		

Item	Description	Unit	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount
			R			R			R
b)	Management Fee for Road Safety Audit service provider	PC Sum		1			1		
c)	Management Fee for Storm Water Management System	PC Sum		1			1		
4.1.21	DISBURSEMENTS								
a)	Travel - road, Air, Toll Fees, Parking Fees, Accommodation, Vanur Hire, Meals Refreshments,Supplies Hardware , etc)	Lump Sum		1			1		
b)	Other Disbursements: Provision of field data capturing and related hardware	Lump Sum		1			1		
c)	Other Disbursements : Overnight Accommodation (Accommodation, vanue hire,etc)	Lump Sum		1			1		
h)	Other Disbursements: Provision of field data capturing and related hardware (DPWR)	Lump Sum		1			1		
i)	Provision of DPWR Smart meeting boardroom Equipment (information Technology) and setting up of wireless internet services as per specification	PC Sum		1			1		
j)	Service,repair and of existing Scanner and Plotter DPWR	PC Sum		1			1		
	Printing - colour								
a)	A4	No.		1400			1400		
b)	A3	No.		1000			1000		
	Plotting								
a)	A2	No.		100			100		
b)	A1	No.		100			100		
c)	A0	No.		200			200		
	Laminated								
a)	A2	No.		100			100		
b)	A1	No.		100			100		
c)	A0	No.		200			200		
	Copying - monochrome								
a)	A4	No.		1400			1400		
b)	A3	No.		1000			1000		
c)	A2	No.		100			100		
d)	A1	No.		100			100		
e)	A0	No.		200			200		
	Copying - colour								
a)	A4	No.		1400			1400		
b)	A3	No.		1000			1000		
c)	A2	No.		100			100		
d)	A1	No.		100			100		
e)	A0	No.		200			200		
	Staff Hourly Rates								
a)	Category A	Rate		Rate only			Rate only		
b)	Category B	Rate		Rate only			Rate only		
c)	Category C	Rate		Rate only			Rate only		
			R -		YEAR 4 : TOTAL	R -		YEAR 5 : TOTAL	R -

Total (Year1;2;3;4&5)	R -
VAT	R -
Grand Total (Including VAT)	R -